OFFSHORE HELICOPTER SAFETY INQUIRY
February 4, 2010
Tara Place, Suite 213, 31 Peet Street
St. John's, NL

February 4, 2010

PRESENT:

John F. Roil, Q.C./ Anne FaganInquiry Counsel
John Andrews/Amy Crosbie Canada-Newfoundland and Labrador Offshore
Cecily Strickland/Ian Wallace
Denis Mahoney/D. Blair PritchettSuncor (Petro-Canada)
Stephanie Hickman
Laura Brown LaengleGovernment of Newfoundland and Labrador
Norman J. Whalen, Q.C./ Michael CohenCougar Helicopters Inc.
Jamie MartinFamilies of Deceased Passengers
Kate O'BrienDavis Estate (Pilot) andagent on behalf of Douglas A. Latto for Lanouette Estate (Co-pilot)
V. Randell J. Earle, Q.CCommunications, Energy and Paperworkers Union Local 2121
David F. Hurley, Q.C Offshore Safety and Survival Centre, Marine Institute
Mark FreemanDepartment of Transport Canada

TABLE OF CONTENTS February 4, 2010

MR. RICHARD WAYNE BURT (PREVIOUSLY SWORN	N)
MR. BRADLEY HANK WILLIAMS (PREVIOUSLY SW	ORN)
MR. RICHARD DANIEL BANKS (PREVIOUSLY SWO	RN)
Discussion	Pgs. 1 - 2
Examination by V. Randell J. Earle	Pgs. 3 – 109
Examination by Jamie Martin	Pgs. 110 – 157
Examination by Kate O'Brien	
Examination by Commissioner	
Discussion	Pgs. 213 – 214
Statement by Mr. Richard Wayne Burt	Pgs. 214 – 216
Ms. Laura Brown Laengle reads written submission on Behalf of the Government of Newfoundland and	
Labrador	Pgs. 217 – 225
Discussion	Pgs. 225 – 226

CertificatePg. 227

rebruary 4, 2010 Mul	u-Page Offshore Hencopter Safety Inquiry
Page 1	Page 3
1 February 4, 2010	1 EARLE, Q.C.:
2 COMMISSIONER:	2 Q. Thank you, Mr. Commissioner.
3 Q. Good morning, ladies and gentlemen. Now I'm	3 MR. RICHARD BANKS, MR. RICK BURT, MR. HANK WILLIAMS:
4 going to go through the list of counsel asking	4 EXAMINATION BY RANDELL EARLE, Q.C.:
5 if they propose to ask questions of these	5 EARLE, Q.C.:
6 three witnesses. The Inquiry counsel is	6 Q. Good morning, gentlemen.
7 finished. Counsel for the party being	7 MR. BURT:
8 examined, Cougar, Mr would you prefer to	8 A. Good morning, sir.
9 wait until last or go now?	9 MR. WILLIAMS:
10 WHALEN, Q.C.:	10 A. Good morning.
11 Q. I'll wait until last.	11 MR. BANKS:
12 COMMISSIONER:	12 A. Morning.
13 Q. Okay, then. Counsel for the Offshore	13 EARLE, Q.C.:
Petroleum Board?	14 Q. I have a number of questions for you. First
15 MS, CROSBIE:	of all, I'd like to get something clarified
	because I found your presentation and you're
16 Q. Thank you, Mr. Commissioner, we have no questions.	
_	good enough to call it presentation, not
18 COMMISSIONER:	18 evidence, because an old trial lawyer might
19 Q. Okay, thank you. Counsel for Transport	have a problem with videos being treated as
20 Canada.	evidence, but the thing that's not entirely
21 MR. FREEMAN:	clear to me is what has been implemented since
22 Q. No questions, Mr. Commissioner, thank you.	March 12th, and what the situation was before.
23 COMMISSIONER:	So I'd like to have from you, it doesn't
24 Q. Counsel for CAPP. Nobody here representing	really matter who answers it from my
25 CAPP is there, this morning. Okay. Counsel	25 perspective, those things which are new since
Page 2	Page 4
Page 2 1 for HMDC.	Page 4 March 12th of 2009, and perhaps you could
-	
1 for HMDC.	1 March 12th of 2009, and perhaps you could
1 for HMDC. 2 MS. STRICKLAND:	1 March 12th of 2009, and perhaps you could 2 assist us with that?
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. 	1 March 12th of 2009, and perhaps you could 2 assist us with that? 3 MR. BURT:
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: 	1 March 12th of 2009, and perhaps you could 2 assist us with that? 3 MR. BURT: 4 A. Sure. I think as we mentioned, there are some
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: Q. Thank you. Suncor. 	1 March 12th of 2009, and perhaps you could 2 assist us with that? 3 MR. BURT: 4 A. Sure. I think as we mentioned, there are some 5 procedures that have been amended, again based
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: Q. Thank you. Suncor. MR. MAHONEY: 	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: Q. Thank you. Suncor. MR. MAHONEY: Q. No questions. 	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER:	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: Q. Thank you. Suncor. MR. MAHONEY: Q. No questions. COMMISSIONER: Q. Thank you. Husky. 	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: Q. Thank you. Suncor. MR. MAHONEY: Q. No questions. COMMISSIONER: Q. Thank you. Husky. MS. HICKMAN: 	1 March 12th of 2009, and perhaps you could 2 assist us with that? 3 MR. BURT: 4 A. Sure. I think as we mentioned, there are some 5 procedures that have been amended, again based 6 upon what we've learned, and those are some 7 amendments to our checklist, emergency 8 checklist, including the flow and the 9 structure of the checklist, and some comments 10 in that checklist. As I mentioned, we 11 developed those together with Transport Canada
 for HMDC. MS. STRICKLAND: Q. No questions, Mr. Commissioner. COMMISSIONER: Q. Thank you. Suncor. MR. MAHONEY: Q. No questions. COMMISSIONER: Q. Thank you. Husky. MS. HICKMAN: Q. No questions, Mr. Commissioner, thank you. 	1 March 12th of 2009, and perhaps you could 2 assist us with that? 3 MR. BURT: 4 A. Sure. I think as we mentioned, there are some 5 procedures that have been amended, again based 6 upon what we've learned, and those are some 7 amendments to our checklist, emergency 8 checklist, including the flow and the 9 structure of the checklist, and some comments 10 in that checklist. As I mentioned, we 11 developed those together with Transport Canada
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER:	1 March 12th of 2009, and perhaps you could 2 assist us with that? 3 MR. BURT: 4 A. Sure. I think as we mentioned, there are some 5 procedures that have been amended, again based 6 upon what we've learned, and those are some 7 amendments to our checklist, emergency 8 checklist, including the flow and the 9 structure of the checklist, and some comments 10 in that checklist. As I mentioned, we 11 developed those together with Transport Canada 12 and found that very useful. We have also
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University,	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre.	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.:	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions.	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER:	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER: 19 Q. Thank you. Counsel for the Government of	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were trained in those procedures, as required by
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER: 19 Q. Thank you. Counsel for the Government of 20 Newfoundland and Labrador, Ms. Brown.	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were trained in those procedures, as required by Transport Canada, and we've also moved the
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER: 19 Q. Thank you. Counsel for the Government of 20 Newfoundland and Labrador, Ms. Brown. 21 MS. BROWN LAENGLE:	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were trained in those procedures, as required by Transport Canada, and we've also moved the auxiliary fuel tank from the left side of the
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER: 19 Q. Thank you. Counsel for the Government of 20 Newfoundland and Labrador, Ms. Brown. 21 MS. BROWN LAENGLE: 22 Q. No questions, thank you, Commissioner.	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were trained in those procedures, as required by Transport Canada, and we've also moved the auxiliary fuel tank from the left side of the aircraft to the right side of the aircraft,
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER: 19 Q. Thank you. Counsel for the Government of 20 Newfoundland and Labrador, Ms. Brown. 21 MS. BROWN LAENGLE: 22 Q. No questions, thank you, Commissioner. 23 COMMISSIONER:	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were trained in those procedures, as required by Transport Canada, and we've also moved the auxiliary fuel tank from the left side of the aircraft to the right side of the aircraft, and together with our customer base, we've
1 for HMDC. 2 MS. STRICKLAND: 3 Q. No questions, Mr. Commissioner. 4 COMMISSIONER: 5 Q. Thank you. Suncor. 6 MR. MAHONEY: 7 Q. No questions. 8 COMMISSIONER: 9 Q. Thank you. Husky. 10 MS. HICKMAN: 11 Q. No questions, Mr. Commissioner, thank you. 12 COMMISSIONER: 13 Q. Sikorsky is not here. Helly Hansen is not 14 here, no. Counsel for Memorial University, 15 the Training Centre. 16 HURLEY, Q.C.: 17 Q. No questions. 18 COMMISSIONER: 19 Q. Thank you. Counsel for the Government of 20 Newfoundland and Labrador, Ms. Brown. 21 MS. BROWN LAENGLE: 22 Q. No questions, thank you, Commissioner.	March 12th of 2009, and perhaps you could assist us with that? MR. BURT: A. Sure. I think as we mentioned, there are some procedures that have been amended, again based upon what we've learned, and those are some amendments to our checklist, emergency checklist, including the flow and the structure of the checklist, and some comments in that checklist. As I mentioned, we developed those together with Transport Canada and found that very useful. We have also revised, in conjunction with that checklist, our descent profile, and again that's based upon the knowledge that we learned and that has also been vetted through Transport Canada and flight tests proven in a simulator. The pilots, of course, needed to be and were trained in those procedures, as required by Transport Canada, and we've also moved the auxiliary fuel tank from the left side of the aircraft to the right side of the aircraft,

Page 5 solidify our first response stance to an 2 enhanced first response capability. 3 FARTF, Q.C.: at that time we only had one joist operator on 2 board and one rescue swimmer. The difference is now that we have a rescue swimmer, a hoist operator, and an additional cabin attendant. 5 Mr. Burt?	February 4, 2010 Mult	1-Page Offshore Helicopter Safety Inquiry
solidify our first response stance to an chanced first response capability. 2 chanced first response capability. 3 EARIE, Q.C. 3 EARIE, Q.C.: 4 Q. Could you be more specific about those moves, Mr. Burt? 5 Mr. Burt? 6 MR. BURT: 7 A. Right. We have added additional staff, dedicated our pilot staff and our first response staff to the first response service. 10 There's pilots and rescue specialists that are dedicated to that service, and as I said, this was an analysis that we started in December of 2008, a continuous improvement process which the was 15 EARIE, Q.C.: 16 Q. Well, you can appreciate, Mr Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't always have the same impact from my 20 perspective. 21 MR. BURT: 22 A. Ub-hm. 23 EARIE, Q.C.: 4 Q. So you moved to dedicated pilots and dedicated 20 I don't know what you call them. Do you 1 Call them SAR technicians? 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARIE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 MR. BURT: 8 A. Correct, for an active crew. So to have it double staffed, that means we had to add two more people. 1 EARIE, Q.C.: 1 Was an analysis that we started in December of the evidence that I've heard before, that talking about things before March 12th doesn't always have the same impact from my 20 perspective. 2 MR. BURT: 2 MR. BURT: 3 A. We call them SAR technicians? 2 MR. BURT: 3 A. We call them scane specialists. 4 EARIE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 1 A. Yes. 1 Q. Uh-hm. 2 MR. BURT: 1 A. Yes. 1 Q. Uh-hm. 2 MR. BURT: 3 A. We call them scane specialists. 4 Q. The pilots who were flying the search and rescue missions were part of your general crew of of pilots? 5 A. That's correct. 10 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 2 MR. BURT: 1 A. Yes, Use and the dedicated pilots and dedicated? 2 MR. BURT: 3 A. We call them fact in the first response service. 4 Q. The pilots	Page 5	Page 7
2 enhanced first response capability. 3 EARLE, QC: 4 Q. Could you be more specific about those moves, 5 Mr. Burt? 6 MR. Burr. 7 A. Right. We have added additional staff, 8 dedicated our pilot staff and our first 9 response staff to the first response service. 10 There's pilots and rescue specialists that are 11 dedicated to that service, and as I said, this 12 was an analysis that we started in December of 12 2008, a continuous improvement process which 14 was - 15 EARLE, QC: 16 Q. Well, you can appreciate, Mr. Burt, from some 17 of the evidence that I've heard before, that 18 talking about things before March 12th doesn't 19 perspective. 21 MR. BURT: 22 A. Uh-hm. 23 EARLE, QC: 24 Q. So you moved to dedicated pilots and dedicated 251 don't know what you call them. Do you Page 6 2 C. So you moved to dedicated pilots and dedicated 251 don't know what you call them. Do you Page 6 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, QC: 4 Q. So you do dedicated pilots and bedicated 251 don't know what you call them. Do you Page 7 3 A. The military would call them SAR techs. 8 EARLE, QC: 14 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, QC: 4 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 13 A. We call them sare part of your general crew 14 G. Pilots 15 A. Correct. 16 Q. Well, you can appreciate, Mr. Burt, from some 17 of the evidence that I've heard before, that 18 A. Uh-hm. 20 So you moved to dedicated pilots and dedicated 211 don't know what you call them. Do you Page 6 22 EARLE, QC: 23 Q. And if you could tell us, that means that 16 before March 12th 11 MR. BURT: 3 A. We su also developed a computerized tracking 4 A. Yes. 5 FARE, QC: 10 Uh-hm. 11 GARLE, QC: 11 Q. Uh-hm. 12 EARLE, QC: 12 Q. And when you say 40 hours, does that mean each 13 intended and and additional acabin attendant. 14 double staffed, that means what to adult two more people. 15 EARLE, QC: 16 Q. Well, you can appreciate, Mr. Burt; 18 MR. BURT: 3 A. We ve also developed a comp		
3 is now that we have a rescue swimmer, a hoist operator, and an additional cabin attendant. 5 Mr. Burt? 6 Mr. Burt? 7 A. Right. We have added additional staff, and dedicated our pilot staff and our first response staff to the first response service. 10 There's pilots and rescue specialists that are dedicated to that service, and as I said, this was — an analysis that we started in December of 2008, a continuous improvement process which was — 15 FARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't always have the same impact from my perspective. 21 Mr. Burt: 22 A. Uh-hm. 23 EARLE, Q.C.: 4 Q. So you moved to dedicated pilots and dedicated — 1 don't know what you call them. Do you Page 6 4 CARLE, Q.C.: 5 Q. Rescue specialists. 6 A. Correct, for an active crew. So to have it double staffed, that means we had to add two more people. 11 EARLE, Q.C.: 12 (Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't always have the same impact from my perspective. 21 Mr. Burt: 22 A. Uh-hm. 23 EARLE, Q.C.: 5 Q. Rescue specialists. 6 A. Correct, for an active crew. So to have it double staffed, that means we had to add two more people. 11 EARLE, Q.C.: 12 Q. Okay. So the rescue specialists were dedicated before? 13 Mr. Burt: 14 Mr. Burt: 15 EARLE, Q.C.: 16 Q. The military would all them SAR technicians? 2 Mr. Burt: 2 A. We have, as you've heard from the Director of Safety and Quality, we've implemented the dedicated pilots and dedicated itoday. The implementation will be on the 8th. 24 That has happened since that event. 25 EARLE, Q.C.: 6 Q. Rescue specialists. 6 Gribors and the rescue specifically for those crew Hying of Shore and the rescue specifically for those crew Hying of Shore and the rescue specifically for those crew Hying of Shore and the rescue specifically for those crew Hying of Shore and the re		
4 operator, and an additional cahin attendant. 5 Mr. Butt? 6 Mr. Butt? 7 A. Right. We have added additional staff, a dedicated our pilot staff and our first seponse staff to the first response service. 10 There's pilots and rescue specialists that are double staffed, that means we had to add two more people. 12 was an analysis that we started in December of 2 2008, a continuous improvement process which was — 13 EARLE, Q.C.: 14 WR. BURT: 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that alking about things before March 12th doesn't always have the same impact from my perspective. 14 MR. BURT: 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that alking about things before March 12th doesn't always have the same impact from my perspective. 18 A. Correct. For an active crew. So to have it double staffed, that means we had to add two more people. 19 A. Correct. For an active crew. So to have it double staffed, that means we had to add two more people. 10 MR. BURT: 11 A. Correct. 12 Q. Okay. So the rescue specialists were in declaced before? 14 MR. BURT: 15 A. Correct. 16 Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that alking about things before March 12th adoesn't always have the same impact from my perspective. 10 G. Neyl, what else has been changed? 11 MR. BURT: 12 A. Uh-hm. 22 MR. BURT: 23 A. We call them SAR technicians? 24 EARLE, Q.C.: 25 Q. Rescue specialists. 3 A. We we also developed a computerized tracking system for our own personal protective equipment specifically for those crew flying system for our own personal protective equipment specifically for those crew flying the search and the many protection of the staffed, that means that there was an increase in the training hours? 18 EARLE, Q.C.: 19 Q. And if you could tell us, that means that there was an increase in the training hours? 19 EARLE, Q.C.: 10 Q.	1	
5 Mr. Burt? 6 Mr. Burt? 7 A. Right. We have added additional staff, 8 dedicated our pilot staff and our first 9 response staff to the first response service. 10 There's pilots and rescue specialists that are 11 dedicated to that service, and as I said, this 12 was an analysis that we started in December of 13 2008, a continuous improvement process which 14 was 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some 17 of the evidence that I've heard before, that 18 talking about things before March 12th doesn't 19 always have the same impact from my 20 perspective. 21 Mr. Burt. 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. Noy on one oved to dedicated pilots and dedicated 25I don't know what you call them. Do you Page 6 1 call them SAR technicians? 24 EARLE, Q.C.: 26 Q. So you moved to dedicated pilots and dedicated 27I don't know what you call them. Do you Page 6 28 EARLE, Q.C.: 29 Q. Mr. Burt. 30 A. We all them rescue specialists. 4 EARLE, Q.C.: 4 Q. Well, you can appreciate, Mr. Burt, from some 4 to always have the same impact from my 5 perspective. 21 Mr. Burt. 22 A. Uh-hm. 23 EARLE, Q.C.: 4 Q. Well, you can appreciate, Mr. Burt, from some 6 of pilots and rescue specialists were 13 dedicated before? 14 Mr. Burt. 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some 17 Q. Okay, what else has been changed? 18 Mr. Burt. 19 A. We have, as you've heard from the Director of osafety and Quality, we've implemented the HEEDS, or I think the HUEBA in our flight crew organization. That training is finished 21 today. The implementation will be on the 8th. 24 EARLE, Q.C.: 25 Q. And if you could tell us, that means that 10 before March 12th - 11 Mr. BURT: 21 A. We've also developed a computerized tracking 4 system for our own personal protective 5 capinent specifically for those crew flying 6 offshore and the rescue specialists. For 6 capinent specifically for those crew flying 6 offshore and the rescue specialists. For 6 capinent specifically for those crew flying 6 offshore and the rescue spec		
6 MR, BURT: 7 A. Right. We have added additional staff, 8 dedicated our pilot staff and our first 19 response staff to the first response service. 10 There's pilots and rescue specialists that are 11 dedicated to that service, and as I said, this 12 was an analysis that we started in December of 13 2008, a continuous improvement process which 14 was 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr Burt, from some 17 of the evidence that I've heard before, that 18 talking about things before March 12th doesn't 19 perspective. 19 A. We have, as you've heard from the Director of 20 Safety and Quality, we've implemented the 21 HEEDS, or I think the HUEBA in our light crew 22 organization. That training is finished 23 tadala, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 — I don't know what you call them. Do you 26 A BABLE, Q.C.: 27 Q. Rescue specialists. 28 EARLE, Q.C.: 29 Q. And if you could tell us, that means that 10 before March 12th 11 MR, BURT: 11 A. The military would call them SAR techs. 29 G. Rescue specialists. 30 A. We've also developed a computerized tracking 4 system for our own personal protective 29 Q. And if you could tell us, that means that 10 before March 12th 11 MR, BURT: 12 A. Yes. 13 A. We call them Applied them SAR techs. 14 EARLE, Q.C.: 15 G. Rescue specialists. 16 G. Q. Weith, and the same impact from my 17 MR, BURT: 18 A. The pilots who were flying the search and 19 G. Dibe for March 12th 11 MR, BURT: 10 A. We have, as you've heard from the Director of 20 Safety and Quality, we've implemented the 21 HEEDS, or I think the HUEBA in our light crew 22 organization. That training is finished 23 today. The implementation will be on the 8th. 24 EARLE, Q.C.: 25 G. Rescue specialists. 26 A. Correct. 27 M. R. BURT: 28 A. Uh-hm. 29 A. We have, as you've heard from the Director of 20 Safety and Quality, we've implemented the 21 HEEDS, or I think the HUEBA in our light crew 22 today. The implementation will be on the 8th. 24 EARLE, Q.C.: 25 G. Rescue specialists. 26 A. We'		_
7 A. Right. We have added additional staff, 8 dedicated our pilot staff and our first 9 response staff to the first response service. 10 There's pilots and rescue specialists that are 11 dedicated to that service, and as I said, this 12 was an analysis that we started in December of 13 2008, a continuous improvement process which 14 was 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some 17 of the evidence that I've heard before, that 18 talking about things before March 12th doesn't 18 always have the same impact from my 20 perspective. 21 MR, BURT: 19 always have the same impact from my 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you 15 EARLE, Q.C.: 27 Q. So, What telse has been changed? 28 A. Correct. 16 EARLE, Q.C.: 29 Q. Mand if you consider the pilots and dedicated 25 I don't know what you call them. Do you 16 Call them SAR technicians? 17 Q. Uh-hm. 17 Lat raining is finished 18 Later 19 La		
8 dedicated our pilot staff and our first response staff to the first response staff to the first response service. 10 There's pilots and rescue specialists that are life dedicated to that service, and as I said, this an analysis that we started in December of 2008, a continuous improvement process which was an analysis that we started in December of 2008, a continuous improvement process which was a manalysis that we started in December of 2008, a continuous improvement process which was a manalysis that we started in December of 2008, a continuous improvement process which was 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't 19 always have the same impact from my 20 perspective. 21 MR. BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you 25 EARLE, Q.C.: 26 Q. Rescue specialists. 27 A. We all them rescue specialists. 38 EARLE, Q.C.: 39 Q. And if you could tell us, that means that before March 12th 11 MR. BURT: 39 A. We call them SAR technicians? 40 C. So you moved to dedicated life. 41 EARLE, Q.C.: 42 EARLE, Q.C.: 43 C. Correct. 44 EARLE, Q.C.: 45 Q. Rescue specialists. 45 EARLE, Q.C.: 46 EARLE, Q.C.: 47 C. Chard. 48 EARLE, Q.C.: 48 EARLE, Q.C.: 49 Q. And if you could tell us, that means that before March 12th 11 MR. BURT: 40 The pilots who were flying the search and 15 rescue missions were part of your general crew of pilots? 41 G. D. Farle, Q.C.: 41 G. D. Farle, Q.C.: 42 G. So you recorrect, and that's on this 15 seate over here. The training hours, was the norm, to 40 hours, and that came from a recommendation from a standard that we have been increased from 10 hours, was the norm, to 40 hours, and that came from a recommendation from a standard that we have been increased from 10 hours, does that mean each individual in your dedicated group undergocs and the cauchy of the life of the process which and the pr		
persponse staff to the first response service. There's pilots and rescue specialists that are idedicated to that service, and as I said, this is was an analysis that we started in December of 2008, a continuous improvement process which is was 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr Burt, from some of the evidence that I've heard before, that talking about things before March I 2th doesn't always have the same impact from my perspective. 17 Q. Okay. So the rescue specialists were is dedicated before? 18 M.R. BURT: 19 A. We have, as you've heard from the Director of Safety and Quality, we've implemented the HEEDS, or I think the HUEBA in our flight crew organization. That training is finished to today. The implementation will be on the 8th. 21 Q. Uh-hm. 22 PABLE, Q.C.: 23 A. Uh-lam. 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you call them SAR technicians? 2 M.R. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 3 A. We call them rescue specialists. 6 MR. BURT: 1 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that before, that the mass of the pilots who were flying the search and for pilots? 1 MR. BURT: 1 D. FARELE, Q.C.: 1 MR. BURT: 2 A. Yes. 3 A. We've also developed a computerized tracking 4 system for our own personal protective equipment specifically for those crew flying offshore and the rescue specialists. For call the rescue specialists. For call the rescue specialists. 1 D. FARELE, Q.C.: 1 MR. BURT: 1 D. FARELE, Q.C.: 2 MR. BURT: 3 A. They were dedicated, and that was all they were deficially by and fulfilling the call that was all they were dedicated, and that was all they were dedicated, and that was all they were dedicated, and that flash in your dedicated group undergoes and the calciated before? 1 A. They were dedicated, and that was all they were dedicated and that flifting the call the call and the call the call the cal		
There's pilots and rescue specialists that are dedicated to that service, and as I said, this was an analysis that we started in December of 2008, a continuous improvement process which was	^	·
dedicated to that service, and as I said, this was an analysis that we started in December of dedicated before? HAMB, BURT: Search, Q.C.: MR, BURT: MR,		· ·
12 was an analysis that we started in December of 13 2008, a continuous improvement process which 14 was 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some 17 of the evidence that I've heard before, that 18 talking about things before March 12th doesn't 19 always have the same impact from my 20 perspective. 21 MR, BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you 25 EARLE, Q.C.: 26 Q. Rescue specialists. 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 5 Q. Rescue specialists. 6 Goffshore and the rescue specialists. For 2 example, their helmets, life vests, the HFEDS bottles, and those things that need to be 12 more, and that the 12 h. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew of pilots? 15 Page 8 (1 MR, BURT: 16 A. Correct. 16 A. Correct. 16 BEARLE, Q.C.: 17 Q. Okay, what else has been changed? 18 MR, BURT: 19 A. We have, as you've heard from the Director of 20 Safety and Quality, we've implemented the 120 organization. That training is finished 10 today. The implementation will be on the 8th. 24 That has happened since that event. 25 EARLE, Q.C.: 26 Q. Rescue specialists. 3 A. We've also developed a computerized tracking 2 system for our own personal protective 2 equipment specifically for those crew flying offshore and the rescue specificalists. For 2 example, their helmets, life vests, the HFEDS 2 bottles, and those things that need to be 12 three was an increase in the training hours? 13 MR, BURT: 14 Q. The pilots who were flying the search and 2 rescue missions were part of your general crew of pilots? 15 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing		* *
13 dedicated before? 14 MR. BURT: 15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr. Burt, from some of the evidence that I've heard before, that taking about things before March 12th doesn't always have the same impact from my perspective. 19 always have the same impact from my perspective. 20 perspective. 21 MR. BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated point know what you call them. Do you 25 EARLE, Q.C.: 26 Page 6 1 call them SAR technicians? 27 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that to before March 12th 11 MR. BURT: 12 A. Yes. 13 MR. BURT: 14 MR. BURT: 15 A. Correct. 16 EARLE, Q.C.: 17 Q. O. Nay, what else has been changed? 18 MR. BURT: 20 Safety and Quality, we've implemented the HEEDS, or I think the Ploin in our Hight crew organization. That training is finished today. The implementation will be on the 8th. 25 EARLE, Q.C.: 26 MR. BURT: 27 A. We've also developed a computerized tracking system for our own personal protective equipments specifically for those crew flying offshore and the rescue specialists. For example, their behnets, life vests, the HEEDS bottles, and those things that need to be tracked for recertification. 18 EARLE, Q.C.: 19 EARLE, Q.C.: 10 EARLE, Q.C.: 11 Q. Uh-hm. 12 A. Yes, equipment specifically for those crew flying offshore and those things that need to be tracked for recertification. 19 EARLE, Q.C.: 10 EARLE, Q.C.: 11 Q. Uh-hm. Anything else? I thought I heard that there was an increase in the training hours? 13 MR. BURT: 14 MR. BURT: 15 A. Correct. 16 EARLE, Q.C.: 16 EARLE, Q.C.: 17 Q. Uh-hm. 28 MR. BURT: 18 EARLE, Q.C.: 9 Q. And if you could tell us, that means that of the proper in the pr		
14 MR. BURT: 15 AARLE, Q.C.: 15 A. Correct. 15 A. Correct. 16 Q. Well, you can appreciate, Mr Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't always have the same impact from my 19 a. We have, as you've heard from the Director of Safety and Quality, we've implemented the HEBDS, or I think the HUBBA in our flight crew organization. That training is finished today. The implementation will be on the 8th. 22 A. Uh-hm. 22 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 25 EARLE, Q.C.: 26 Day, The implementation will be on the 8th. 27 Day, The implementation will be on the 8th. 28 Day, The implementation will be on the 8th. 28 Day, The implementation will be on the 8th. 29 Day, The implementation will be on the 8th. 29 Day, The implementation will be on the 8th. 29 Day, The implementation will be on the 8th. 29 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 20 Day, The implementation will be on the 8th. 21 Day, The implementation will be on the 8th. 22 Day, The implementation will be on the 8th. 23 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 24 Day, The implementation will be on the 8th. 25 Day, The implementation will be on the 8th. 25 Day, The implementation will be on the 8th. 26 Day, The implementation will be on the 8th. 27 Day, Day, The implementation will be on the 8th. 28 Day, Da	1	
15 EARLE, Q.C.: 16 Q. Well, you can appreciate, Mr Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't always have the same impact from my perspective. 20 Q. Okay, what else has been changed? 18 MR. BURT: 19 A. We have, as you've heard from the Director of Safety and Quality, we've implemented the HEDS, or I think the HUEBA in our flight crew organization. That training is finished today. The implementation will be on the 8th. 22 A. Uh-hm. 22 Organization. That training is finished today. The implementation will be on the 8th. 24 A. We call them sAR technicians? 2 MR. BURT: 2 MR. BURT: 2 MR. BURT: 3 A. We've also developed a computerized tracking system for our own personal protective equipment specifically for those crew flying offshore and the rescue specialists. 5 OR SEARLE, Q.C.: 8 bottles, and those things that need to be tracked for recertification. 10 EARLE, Q.C.: 11 Q. Uh-hm. Anything else? I thought I heard that there was an increase in the training hours? 13 MR. BURT: 11 Q. Uh-hm. Anything else? I thought I heard that there was an increase in the training hours? 13 MR. BURT: 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 hours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 20 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 22 Q. And what were dedicated, and that was all they were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 24 were d		
16 Q. Well, you can appreciate, Mr Burt, from some of the evidence that I've heard before, that talking about things before March 12th doesn't talking about things before March 12th, if they were dedicated, and that was all they before March 12th, if they were dedicated, and that was all they care of palos and ways have the same impact from my parspective. 10 Q. Well, you can appreciate, Mr Burt, 170 Q. Okay, what else has been changed? 11 Q. Uokay, what else has been changed? 12 MR, BURT: 13 A. We have, as you've heard from the Director of 20 Safety and Quality, we've implemented the HEEDS or I think the HUEBA in our flight crew organization. That training is finished today. The implementation will be on the 8th. 21 MR BURT: 22 MR, BURT: 23 A. We call them rescue specialists. 3 A. We've also developed a computerized tracking system for our own personal protective example, their helmest, life vests, the HEEDS offshore and the rescue specialists. For example, their helmest, life vests, the HEEDS bottles, and those things that need to be the rescue specialists on this sheet over here. The training hours? 23 MR, BURT: 24 Q. The pilots who were flying the search and rescue missions were part of your general crew of pilots? 25 EARLE, Q.C.: 26 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 27 MR, BURT: 28 MR, BURT: 29 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 29 Q. And what were dedicated, and that was all they were doing is standing by and fulfilling the	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
17 of the evidence that I've heard before, that talking about things before March 12th doesn't family always have the same impact from my talking always have the mean that talking about things before March 12th doesn't family always all they were dedicated and that was all they talking always have the same impact from my talking always and full filling the talking always always all the piretor of Safety and Quality, we've implemented the talk always all quality, we've implemented the Mark all they have ve implemented the Safety and Quality, we've implemented the Safety and Quality, the further organization. That training in finished today. The implementation in the HuEBA in our flight crew organization. That training in finished today. The HEEDS and today. The implementation in the HuEBA in our flight crew organization. That training in four flowers		
18 talking about things before March 12th doesn't 19 always have the same impact from my 20 perspective. 21 MR BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you 26 Page 6 27 I call them SAR technicians? 28 MR BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 4 A. The military would call them SAR techs. 8 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew of pilots? 16 G pilots? 17 MR BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 21 MR BURT: 22 A. We have, as you've heard from the Director of Safety and Quality, we've implemented the HEEDS, or I think the HUEBA in our flight crew organization. That training is finished today. The implementation will be on the 8th. 24 Unday. The implementation will be on the 8th. 25 EARLE, Q.C.: 26 EARLE, Q.C.: 27 MR BURT: 28 MR BURT: 29 Q. Uh-hm. 20 Uh-hm. 21 MR BURT: 30 Q. Uh-hm. 31 A. We've also developed a computerized tracking system for our own personal protective equipment specifically for those crew flying of offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS bettles, and those things that need to be tracked for recertification. 29 Q. And if you could tell us, that means that there was an increase in the training hours? 20 Learle, Q.C.: 21 MR BURT: 22 MR BURT: 23 A. They were dedicated, and that was all they were dedicated, and that was all they were dedicated, and that was all they were doing is standing by and fulfilling the dividual in your dedicated group undergoes and the rescue implementation will be or there. The training hours, does that mean each individual in your dedicated group und	1	
19 always have the same impact from my 20 perspective. 21 MR. BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you Page 6 1 call them SAR technicians? 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that before March 12th 11 M. BURT: 11 M. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and rescue missions were part of your general crew for pilots? 15 EARLE, Q.C.: 16 Q. The pilots who were flying the search and for pilots? 17 MR. BURT: 18 A. That's correct. 19 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 22 MR. BURT: 15 EARLE, Q.C.: 16 Q. And what were dedicated, and that was all they were dedicated, and that was all they were dedicated, and that fulfilling the 20 And were doing is standing by and fulfilling the 21 A. They were dedicated, and that was all they were dedicated, and that was all they were dedicated, and that fulfilling the 22 A. We have, as you've heard from the Director of Safety and Quality, we've implemented the think the HUEBA in our light crew organization. That training is finished today. The implementation will be on the 8th. 22 That has happened since that event. 23 LEARLE, Q.C.: 24 MR. BURT: 25 EARLE, Q.C.: 26 Wh. BuRT: 26 A. We've also developed a computerized tracking organization. 27 A. We've also developed a computerized tracking organization. 28 MR. BURT: 3 A. We've also developed a computerized tracking organization. 3 A. We've also developed a computerized tracking organization. 3 A. We've also developed a computerized tracking organization. 4 System for our own personal protective equipment specifically for those crew flying offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS better. 4 System for our own personal protective equipment	· ·	
20 perspective. 21 MR. BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 251 don't know what you call them. Do you Page 6 1 call them SAR technicians? 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that before March 12th 11 MR. BURT: 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. Uh-hm. 2 MR. BURT: 3 A. We've also developed a computerized tracking system for our own personal protective equipment specifically for those crew flying offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS bottles, and those things that need to be tracked for recertification. 10 EARLE, Q.C.: 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew of pilots? 15 EARLE, Q.C.: 16 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 26 MR. BURT: 27 A. They were dedicated, and that was all they were doing is standing by and fulfilling the 28 AGRLE, Q.C.: 29 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 20 And whours training per month?		
21 MR. BURT: 22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you 26 Page 6 27	1 * * * * * * * * * * * * * * * * * * *	· •
22 A. Uh-hm. 23 EARLE, Q.C.: 24 Q. So you moved to dedicated pilots and dedicated 25 I don't know what you call them. Do you Page 6 1		
23 Loday. The implementation will be on the 8th. 24 Q. So you moved to dedicated pilots and dedicated 25 —-I don't know what you call them. Do you Page 6 1 call them SAR technicians? 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 11 Q. Uh-hm. 2 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 11 Q. Uh-hm. 12 MR. BURT: 13 MR. BURT: 14 A. Yes. 15 EARLE, Q.C.: 16 MR. BURT: 17 MR. BURT: 18 EARLE, Q.C.: 19 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew of pilots? 16 A. That's correct. 17 MR. BURT: 18 A. That's correct. 19 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 20 MR. BURT: 21 EARLE, Q.C.: 22 MR. BURT: 23 today. The implementation will be on the 8th. 24 That has happened since that event. 25 EARLE, Q.C.: 26 Page 8 1 Q. Uh-hm. 2 MR. BURT: 3 A. We've also developed a computerized tracking offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS bottles, and those things that need to be tracked for recertification. 10 EARLE, Q.C.: 11 MR. BURT: 11 Q. Uh-hm. 2 MR. BURT: 12 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 hours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 18 months. 21 EARLE, Q.C.: 22 MR. BURT: 23 A. They were dedicated, and that was all they were doing is standing by and fulfilling the 24 Were doing is standing by and fulfilling the		
24 That has happened since that event. 25 EARLE, Q.C.: Page 6 1 call them SAR technicians? 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 1 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 C. Uh-hm. 2 MR. BURT: 2 MR. BURT: 3 A. We've also developed a computerized tracking system for our own personal protective equipment specifically for those crew flying offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS bottles, and those things that need to be tracked for recertification. 10 EARLE, Q.C.: 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 13 MR. BURT: 14 Q. Uh-hm. 16 personal protective equipment specifically for those crew flying offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS bottles, and those things that need to be tracked for recertification. 10 EARLE, Q.C.: 11 MR. BURT: 12 A. Yes. 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 hours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 18 Mours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 20 Q. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 21 EARLE, Q.C.: 22 MR. BURT: 23 A. They were dedicated, and that was all they were doing is standing by and fulfilling the 24 Were doing is standing by and fulfilling the 25 EARLE, Q.C.: 26 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes		_
25 I don't know what you call them. Do you Page 6 Page 6 1		_
Page 6 1		
1 Call them SAR technicians? 2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. Uh-hm. 2 MR. BURT: 16 offshore and the rescue specialists. For 17 example, their helmets, life vests, the HEEDS 18 bottles, and those things that need to be 19 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. Uh-hm. Anything else? I thought I heard that 15 rescue missions were part of your general crew 16 of pilots? 16 increased from 10 hours, was the norm, to 40 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. We've also developed a computerized tracking 4 system for our own personal protective 5 equipment specifically for uor won personal protective 6 offshore and the rescue specialists. For 6 example, their helmets, life vests, the HEEDS 8 bottles, and those things that need to be 9 tracked for recertification. 10 EARLE, Q.C.: 11 MR. BURT: 11 Q. Uh-hm. Anything else? I thought I heard that 12 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 I a months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 16 individual in your dedicated group undergoes 24 Were doing is standing by and fulfilling the 24 40 hours training per month?		
2 MR. BURT: 3 A. We call them rescue specialists. 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 Q. And what were the rescue specialists doing 10 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. We've also developed a computerized tracking 4 system for our own personal protective 5 equipment specifically for those crew flying 6 offshore and the rescue specialists. For 7 example, their helmets, life vests, the HEEDS 8 bottles, and those things that need to be 9 tracked for recertification. 10 EARLE, Q.C.: 11 Q. Uh-hm. Anything else? I thought I heard that 12 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 on an international basis for the last 12 to 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 24 MR burst training per month?		_
3 A. We've also developed a computerized tracking 4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 Q. And when you say 40 hours, does that mean each 20 Q. And when you say 40 hours, does that mean each 21 individual in your dedicated group undergoes 22 WR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 25 equipment specifically for those crew flying system for our own personal protective 26 system for our own personal protective 27 system for our own personal protective 28 system for our own personal protective 28 system for our own personal protective 29 equipment specifically on on whothese crew flying of offshore and the rescue specialists. For 29 equipment specifically on offshore and the rescue specialists. For 20 example, their helmets, life vests, the HEEDS 20 bottles, and those things that need to be 20 tracked for recertification. 20 Learle, Q.C.: 21 MR. BURT: 22 D. Wh-m. Anything else? I thought I heard that the rescue was an increase in the training hours? 23 A. Yes, yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 hours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 20 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 24 We doing is standing by and fulfilling the	1 call them SAR technicians?	1 Q. Uh-hm.
4 EARLE, Q.C.: 5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 A. The military would call them SAR techs. 18 bottles, and those things that need to be 19 tracked for recertification. 10 EARLE, Q.C.: 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 hours, and that came from a recommendation 18 A. That's correct. 19 EARLE, Q.C.: 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 24 system for our own personal protective 5 equipment specifically for those crew flying 6 offshore and the rescue specialists. For example, their helmets, life vests, the HEEDS 8 bottles, and those things that need to be 10 example, their helmets, life vests, the HEEDS 10 better sand those things that need to be 10 tracked for recertification. 10 Lance standard that the training hours? 11 Q. Uh-hm. Anything else? I thought I heard that there was an increase in the training hours? 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 hours, was the norm, to 40 hours, was th		
5 Q. Rescue specialists. 6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 10 MR. BURT: 11 Q. Uh-hm. Anything else? I thought I heard that 12 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 18 Garden March 12th, if they weren't dedicated? 20 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 21 were doing is standing by and fulfilling the 22 MR. BURT: 23 A. They were dedicated, and that was all they were doing is standing by and fulfilling the	3 A. We call them rescue specialists.	
6 MR. BURT: 7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 hours, and that came from a recommendation 18 A. That's correct. 19 Q. And what were the rescue specialists doing 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 6 offshore and the rescue specialists. For 7 example, their helmets, life vests, the HEEDS 8 bottles, and those things that need to be 16 cample, their helmets, life vests, the HEEDS 9 Doffshore and the rescue specialists. For 17 example, their helmets, life vests, the HEEDS 8 bottles, and those things that need to be 9 Cample, their helmets, life vests, the HEEDS 10 Pample, their helmets, life vests, the HEEDS 10 Pample the pample, their helmets, life vests, the HEEDS 10 Pample, their helmets, life vests, the HEEDS 10 Pample the pample, their helmets, life vests, the HEEDS 10 Pample, their helmets, life vest, pample the pample life pamp		
7 A. The military would call them SAR techs. 8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 degree March 12th. 18 A. That's correct. 19 EARLE, Q.C.: 11 MR. BURT: 12 A. Yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 O. And what were the rescue specialists doing before March 12th, if they weren't dedicated? 20 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes were doing is standing by and fulfilling the	5 Q. Rescue specialists.	5 equipment specifically for those crew flying
8 EARLE, Q.C.: 9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 11 DEARLE, Q.C.: 11 Q. Uh-hm. Anything else? I thought I heard that there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 hours, and that came from a recommendation 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 20 18 months. 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they were doing is standing by and fulfilling the 24 were doing is standing by and fulfilling the 25 bottles, and those things that need to be tracked for recertification. 26 DEARLE, Q.C.: 27 DEARLE, Q.C.: 28 DEARLE, Q.C.: 29 DEARLE, Q.C.: 20 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes and that was all they were doing is standing by and fulfilling the	6 MR. BURT:	6 offshore and the rescue specialists. For
9 Q. And if you could tell us, that means that 10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 24 Were doing is standing by and fulfilling the 25 Uh-hm. Anything else? I thought I heard that 16 Uh-hm. Anything else? I thought I heard that 17 Uh-hm. Anything else? I thought I heard that 18 A. Yes, yes, you're correct, and that's on this 19 sheet over here. The training hours have been 19 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 Q. And when you say 40 hours, does that mean each 21 individual in your dedicated group undergoes 22 were doing is standing by and fulfilling the 23 hours training per month?	7 A. The military would call them SAR techs.	7 example, their helmets, life vests, the HEEDS
10 before March 12th 11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th 10 EARLE, Q.C.: 11 Q. Uh-hm. Anything else? I thought I heard that 12 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 26 Uh-hm. Anything else? I thought I heard that 17 hours, an increase in the training hours? 18 MR. BURT: 19 A. Yes, yes, you're correct, and that's on this 10 hours, was the norm, to 40 11 hours, and that came from a recommendation 12 from a standard that we have been developing 13 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 24 were doing is standing by and fulfilling the		8 bottles, and those things that need to be
11 MR. BURT: 12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 EARLE, Q.C.: 10 Q. And what were the rescue specialists doing 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 20 Uh-hm. Anything else? I thought I heard that there was an increase in the training hours? 12 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this sheet over here. The training hours have been increased from 10 hours, was the norm, to 40 increased from 10 hours, and that came from a recommendation from a standard that we have been developing on an international basis for the last 12 to 20 I8 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 40 hours training per month?		9 tracked for recertification.
12 A. Yes. 13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 21 there was an increase in the training hours? 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 were doing is standing by and fulfilling the 24 40 hours training per month?	before March 12th	10 EARLE, Q.C.:
13 EARLE, Q.C.: 14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 13 MR. BURT: 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 40 hours training per month?		
14 Q. The pilots who were flying the search and 15 rescue missions were part of your general crew 16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 14 A. Yes, yes, you're correct, and that's on this 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 40 hours training per month?		there was an increase in the training hours?
rescue missions were part of your general crew of pilots? 16 of pilots? 16 increased from 10 hours, was the norm, to 40 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 15 sheet over here. The training hours have been 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 40 hours training per month?		
16 of pilots? 17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 16 increased from 10 hours, was the norm, to 40 17 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 24 40 hours training per month?		
17 MR. BURT: 18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 25 hours, and that came from a recommendation 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 40 hours training per month?	1	_
18 A. That's correct. 19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 18 from a standard that we have been developing 19 on an international basis for the last 12 to 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 40 hours training per month?	of pilots?	increased from 10 hours, was the norm, to 40
19 EARLE, Q.C.: 20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 25 on an international basis for the last 12 to 26 18 months. 27 EARLE, Q.C.: 28 Q. And when you say 40 hours, does that mean each 29 individual in your dedicated group undergoes 20 40 hours training per month?		
20 Q. And what were the rescue specialists doing 21 before March 12th, if they weren't dedicated? 22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 20 18 months. 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each 23 individual in your dedicated group undergoes 24 40 hours training per month?	18 A. That's correct.	
before March 12th, if they weren't dedicated? MR. BURT: A. They were dedicated, and that was all they were doing is standing by and fulfilling the 21 EARLE, Q.C.: 22 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 24 40 hours training per month?		
22 MR. BURT: 23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 22 Q. And when you say 40 hours, does that mean each individual in your dedicated group undergoes 24 40 hours training per month?	1	20 18 months.
23 A. They were dedicated, and that was all they 24 were doing is standing by and fulfilling the 25 individual in your dedicated group undergoes 26 40 hours training per month?	before March 12th, if they weren't dedicated?	21 EARLE, Q.C.:
24 were doing is standing by and fulfilling the 24 40 hours training per month?	22 MR. BURT:	22 Q. And when you say 40 hours, does that mean each
	23 A. They were dedicated, and that was all they	23 individual in your dedicated group undergoes
25 role as a rescue specialist. However, we 25 MR. BURT:	1	24 40 hours training per month?
	role as a rescue specialist. However, we	25 MR. BURT:

	The design of the state of the
Page 9	Page 11
1 A. No.	1 recommendation by the HOTF Committee. When we
2 EARLE, Q.C.:	went back to work on May 18th flying, that
3 Q. What does it mean?	3 recommendation was there.
4 MR. BURT:	4 EARLE, Q.C.:
5 A. If I could explain, there's a rotational basis	5 Q. So the goggles was after March 12th?
6 where we have a flight crew that's on 24 hours	6 MR. WILLIAMS:
7 in a two week shift. They'll come off and	7 A. Correct.
8 then there's another crew that comes on. So	8 EARLE, Q.C.:
on a monthly basis, we have one crew change.	9 Q. Mr. Williams, you mentioned a commitment to
So that 40 hours is divided between those two	the customer for 24 hour report in the event
11 crew.	of an incident?
12 EARLE, Q.C.:	12 MR. WILLIAMS:
13 Q. So does that mean 20 hours per crew?	13 A. Correct.
14 MR. BURT:	14 EARLE, Q.C.:
15 A. That's correct, yes.	15 Q. I wasn't clear when that came in. Did that
16 EARLE, Q.C.:	16 come in after March 12th too?
17 Q. And anything else?	17 MR. WILLIAMS:
18 MR. BURT:	18 A. No, that's been a process that we've had for a
19 A. We have our SMS development, our Safety	long time through various methods. You know,
Management System development has been	20 the customer event form was either in the form
completed in that time frame as well, and I	of an e-mail. We've formalized it a little
22 think as we heard yesterday, of course, our	22 more.
random alcohol and drug testing program has	23 EARLE, Q.C.:
been completed.	Q. How long has that been in place?
25 EARLE, Q.C.:	25 MR. WILLIAMS:
Page 10	Page 12
Page 10 1 Q. So those are the things that you have I'll	Page 12 1 A. I've been doing customer event forms for ten
1	
1 Q. So those are the things that you have I'll	1 A. I've been doing customer event forms for ten
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a
Q. So those are the things that you have I'll just ask you about a few things that I thought were your changes. Previously there had been an allowance that the standby first response unit could take off if there was a helicopter	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour
Q. So those are the things that you have I'll just ask you about a few things that I thought were your changes. Previously there had been an allowance that the standby first response unit could take off if there was a helicopter returning within 30 minutes of St. John's?	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour
Q. So those are the things that you have I'll just ask you about a few things that I thought were your changes. Previously there had been an allowance that the standby first response unit could take off if there was a helicopter returning within 30 minutes of St. John's? 7 MR. BURT:	A. I've been doing customer event forms for ten years here since you know, every event, the customer is notified in some way with a notification. We've structured a little more in the last year where now I have a 24 hour cutoff I need to get it in, and it's a form that's a standard form for all three
Q. So those are the things that you have I'll just ask you about a few things that I thought were your changes. Previously there had been an allowance that the standby first response unit could take off if there was a helicopter returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes.	A. I've been doing customer event forms for ten years here since you know, every event, the customer is notified in some way with a notification. We've structured a little more in the last year where now I have a 24 hour cutoff I need to get it in, and it's a form that's a standard form for all three operators. It's consistent the report I
Q. So those are the things that you have I'll just ask you about a few things that I thought were your changes. Previously there had been an allowance that the standby first response unit could take off if there was a helicopter returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.:	A. I've been doing customer event forms for ten years here since you know, every event, the customer is notified in some way with a notification. We've structured a little more in the last year where now I have a 24 hour cutoff I need to get it in, and it's a form that's a standard form for all three operators. It's consistent the report I give is standard now for all three operators.
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.:
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed?	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new?
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT:	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS:
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated.	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.:	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change?	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.:
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT:	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period?
Q. So those are the things that you have I'll just ask you about a few things that I thought were your changes. Previously there had been an allowance that the standby first response unit could take off if there was a helicopter returning within 30 minutes of St. John's? MR. BURT: A. Yes. EARLE, Q.C.: Q. But now that's been that procedure is no longer allowed? MR. BURT: A. That's been eliminated. EARLE, Q.C.: Q. That's another change? MR. BURT: A. That's correct, that's another change too.	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS:
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.:	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS: 18 A. Correct.
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.: 19 Q. And a small item, but was the goggles position	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS: 18 A. Correct. 19 EARLE, Q.C.:
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.: 19 Q. And a small item, but was the goggles position 20 changed after the suit came in or with the new	A. I've been doing customer event forms for ten years here since you know, every event, the customer is notified in some way with a notification. We've structured a little more in the last year where now I have a 24 hour cutoff I need to get it in, and it's a form that's a standard form for all three operators. It's consistent the report I give is standard now for all three operators. EARLE, Q.C.: Q. So the 24 hour time period is new? MR. WILLIAMS: A. Well, it was always there, but it was never formalized. It's safe to say that EARLE, Q.C.: Q. Formalizing of the 24 hour time period? MR. WILLIAMS: A. Correct. EARLE, Q.C.: Q. Gentlemen, that would appear to me to be a
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.: 19 Q. And a small item, but was the goggles position 20 changed after the suit came in or with the new 21 452 suit coming in?	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS: 18 A. Correct. 19 EARLE, Q.C.: 20 Q. Gentlemen, that would appear to me to be a 21 very extensive list of changes. Just a
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.: 19 Q. And a small item, but was the goggles position 20 changed after the suit came in or with the new 21 452 suit coming in? 22 MR. BURT:	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS: 18 A. Correct. 19 EARLE, Q.C.: 20 Q. Gentlemen, that would appear to me to be a 21 very extensive list of changes. Just a 22 question on one or two of them to be sure we
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.: 19 Q. And a small item, but was the goggles position 20 changed after the suit came in or with the new 21 452 suit coming in? 22 MR. BURT: 23 A. Can I ask Mr. Williams to	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS: 18 A. Correct. 19 EARLE, Q.C.: 20 Q. Gentlemen, that would appear to me to be a 21 very extensive list of changes. Just a 22 question on one or two of them to be sure we 23 understand, you know, because there's people
1 Q. So those are the things that you have I'll 2 just ask you about a few things that I thought 3 were your changes. Previously there had been 4 an allowance that the standby first response 5 unit could take off if there was a helicopter 6 returning within 30 minutes of St. John's? 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. But now that's been that procedure is no 11 longer allowed? 12 MR. BURT: 13 A. That's been eliminated. 14 EARLE, Q.C.: 15 Q. That's another change? 16 MR. BURT: 17 A. That's correct, that's another change too. 18 EARLE, Q.C.: 19 Q. And a small item, but was the goggles position 20 changed after the suit came in or with the new 21 452 suit coming in? 22 MR. BURT:	1 A. I've been doing customer event forms for ten 2 years here since you know, every event, the 3 customer is notified in some way with a 4 notification. We've structured a little more 5 in the last year where now I have a 24 hour 6 cutoff I need to get it in, and it's a form 7 that's a standard form for all three 8 operators. It's consistent the report I 9 give is standard now for all three operators. 10 EARLE, Q.C.: 11 Q. So the 24 hour time period is new? 12 MR. WILLIAMS: 13 A. Well, it was always there, but it was never 14 formalized. It's safe to say that 15 EARLE, Q.C.: 16 Q. Formalizing of the 24 hour time period? 17 MR. WILLIAMS: 18 A. Correct. 19 EARLE, Q.C.: 20 Q. Gentlemen, that would appear to me to be a 21 very extensive list of changes. Just a 22 question on one or two of them to be sure we

rebrua	ry 4, 2010 Mu	Iti-P	age	Offshore Helicopter Safety Inquiry
	Page 1	13		Page 15
1 A.	Sure.	1		significant findings. So I would say based
2 EARL	.E, Q.C.:	2	2	upon that, we wanted to provide an overarching
3 Q.	And I heard one old lag(phonetic) allow that	3	3	backstop, as it were, to our return to service
4	that fellow, Earle, must be some stun because	4	ļ	effort that would allow us to recognize any
5	he's the only fellow that has to ask questions	5	i	event as quick as we could, the checklist
6	to understand what's going on, but this	6	ó	revision, descend in a controlled and
7	business of the descent profile	7	7	determined fashion, and understand how long
8 MR. E	BURT:	8	3	that would take and then effect, if required,
9 A.	Yes.	9)	a ditching after that.
10 EARL	.E, Q.C.:	10	EARI	LE, Q.C.:
11 Q.	Now is that basically how low you come, and	11	Q.	So just to simplify it
12	when you come low when there's an indication	12	MR. I	BURT:
13	of problems, is that what we're talking about?	13	8 A.	Sure.
14 MR. E	BURT:	14	EARI	LE, Q.C.:
15 A.	The descent profile was again developed in the	15	Q.	You're the fellow on this panel who holds a
16	context of what we had learned after March	16	ó	licence to fly one of these things, but does
17	12th, and again, as I said, together with	17	,	it mean that this revised descent profile,
18	Transport Canada, and the manufacturer was	18	3	that if we were to have a repeat of the
19	involved in the development of that profile	19)	information that appeared in the cockpit on
20	and what the aircraft could do. It was	20)	that day, the way in which the pilots would
21	developed to provide guidance for the flight	21		have tried to bring the helicopter down would
22	crew to descend in a manner which we could	22	2	have been different?
23	understand the timing of the descent, the	23	MR. I	BURT:
24	nature of the descent, and where the descent	24	Α.	Having the information we have today versus
25	would terminate as far as like the descent	25	i	before March 12th, taking that information, it
	Page 1	4		Page 16
1	profile itself.	1		again would assist the crew.
2 EARLI	•	2	EARI	LE, Q.C.:
	So it's a direct response to what you learned	3		Oh yes, I fully understand. I mean, you've
4	from March 12th?	4		taken this into the simulator and -
5 MR. B	URT:	5	MR. I	BURT:
	That's correct.	6		Right, and we've learned things, absolutely,
7 EARL	E, O.C.:	7		and we use this as a, as I call it, the
1	And, I mean, for the purposes of this Inquiry,	8	3	backstop to go back to work should an event
9	I think it's fair to say that the events of	9)	like this happen again.
10	March 12th and where you were on March 12th is	10	EARI	LE, Q.C.:
11	only relevant in terms of ascertaining	11		But the bottom line on it is -
12	whether, in fact, there were some		MR. I	
13	misconceptions or problems that arose from the	13		Right.
14	approach to safety, and so the Transportation			LE, Q.C.:
15	Safety Board to determine what were the causes	15		- that the information has been taken and the
16	of the crash, but what you're telling us is	16	-	conclusion is and it's a tested conclusion
17	that Cougar has learned that there would have	17		using the simulator and everything -
18	been a better approach in terms of how that		MR. I	
19	aircraft came down in response to the	19		Um-hm.
20	information they were getting in the cockpit?	20		LE, Q.C.:
21 MR. B		21		- that it would now be done differently?
	I mean, what I would say is that we had		MR. I	·
23	learned obviously some things from the March	23		Yes.
24	12th event, and those were things that the TSB			LE, Q.C.:
25	even announced during that public as	25		Okay. Now this brings me to another point

February 4, 2010 Mult	i-Page TM Offshore Helicopter Safety Inquiry
Page 17	Page 19
about where we were on March 12th, and I've,	1 COMMISSIONER:
2 as you can appreciate, my people are out there	2 Q. Oh yes, we know that.
looking at the media and looking at things	3 EARLE, Q.C.:
4 that were published, and the question I have	4 Q. The FAA has been very clear on that. It's
for you is on March 12th, 2009, did Cougar	5 important to know, did Cougar collectively
6 believe the S-92 had a 30-minute dry fly time?	6 have this understanding, and if it didn't,
7 COMMISSIONER:	7 that's fine. I think that's the end of the
8 Q. I think we'd better talk about that, Mr.	8 issue really. But if it did, to know how it
9 Earle. The reason I raise it with you is	9 was, and for you as Commissioner to explore
that, not to prohibit you in any way from	how it was that that belief maintained itself
asking legitimate questions, but to raise the	in the face of what we've seen through this
matter of the role of the Transportation	Inquiry is a I mean, I can only use a word
13 Safety Board.	like huge system of audits and checking and
14 EARLE, Q.C.:	things of this nature. So it is important,
15 Q. We're all aware of the role of the	and this is really, in many ways, the same
16 Transportation Safety Board.	issue as you confronted with the HUEBA. It is
17 COMMISSIONER:	important to know and the suits if this
18 Q. Yes.	is an error that was out there, just like the
19 EARLE, Q.C.:	belief that the suits were not fitting and
20 Q. But I would suggest, Mr. Commissioner, on the	20 that it was a comfort issue, and not a seal
interface, and I must say, I for one would	issue. It's important to know if that was out
prefer that this Inquiry were proceeding after	22 there, and then if it was out there, to follow
we had the report from the Transportation	through and determine how, in the face of this
Safety Board, because then it would all be	24 elaborate system of checks and safety
25 given and -	25 management, this could happen that this belief
Page 18	Page 20
1 COMMISSIONER:	1 would be out there. Because quite frankly, it
2 Q. Mind you, I would say as to that, you know,	would be out there. Because quite frankly, it would be my submission that if it is the case
there is another phase and when the	that this belief was out there, and it didn't
4 Transportation Safety Board has reported, I	get picked up by this elaborate system, then
5 can then we'll have greater freedom and I	5 we have got to ask ourselves is there
6 would expect and hope that you're there at	6 something fundamentally wrong with the
that time also, as with other counsel, because	7 approach to checking.
8 there are a lot of things we can go into then.	8 COMMISSIONER:
9 EARLE, Q.C.:	9 Q. To?
10 Q. But just as Mr. Burt has told us, you know,	10 EARLE, Q.C.:
there's been a learning in respect of the	11 Q. To checking.
descent profile. I think it is important for	12 COMMISSIONER:
this Inquiry to understand what was the	13 Q. To checking, yes. To the audits?
collective state of mind of Cougar on this	14 EARLE, Q.C.:
issue and, you know, we can't pretend about	15 Q. To the audits, to the safety management
it. It's all out there in the press and it's	systems, to you name it, because you know,
been published in a lot of aviation materials	it's a big issue and, as I said, I've
prior to March 2009 that the S-92 had this 30-	certainly seen enough out there in terms of
minute dry fly time, and I think it is	19 written materials on the S-92 that were out
20 important for us to know, because we all know	20 there and, you know, seemingly respected
now that it didn't.	sources. I mean, found one last evening that
22 COMMISSIONER:	Janes, the military hardware and aviation
23 Q. That -	people put out a respected publication. They
24 EARLE, Q.C.:	were saying that the S-92 had a 30-minute dry
25 Q. That the S-92 did not have a 30-minute -	25 fly time. So I mean, it would be
· · · · · · · · · · · · · · · · · · ·	· · ·

Page 23

Page 24

re	oruary 4, 2010 Mult	1-Page	Offshore Hencopter Safety Inquir
	Page 21		Page 2
1	understandable in some ways how it got out	1	hours. So that directive came out. I don't
2	there. The question is why didn't it get	2	know anything about bolts. You know, I don't
3	corrected.	3	know if they should be made of aluminum or
4	COMMISSIONER:	4	steel or brass or whatever. That's not my
5	Q. And I agree that that is an absolutely	5	role. But the Transportation Safety Board
6	legitimate question and I would like to know	6	said that the bolts were the cause. We
7	the answer, but at the appropriate time, and	7	weren't seeking, and Ms. Fagan wasn't seeking
8	this is you see, I'm, in the Terms of	8	information on the bolts. Ms. Fagan was
9	Reference, as you know, required to liaise	9	seeking information on the culture, the safety
10	closely with the Transportation Safety Board.	10	culture of Cougar, when she said "when did you
11	I have done that and I don't mind saying that	11	order the new bolts?" and they said "within
12	our discussions centred on what was their	12	six days" and that's fine. If they had said
13	bailiwick and what was mine, and they are the	13	"well, we had a year. We'd wait for six
14	ones that examine the circumstances of a crash	14	months and maybe we'll have them in by eight
15	such as this, or any incident -	15	months," I would have taken a very different
16	EARLE, Q.C.:	16	view of their safety culture when I came to
17	Q. Yeah, but I'm not asking for the circumstances	17	write my report.
18	of the crash.	18	So that was the purpose of that question,
19	COMMISSIONER:	19	and it arose really out of something that the
20	Q. I know, but you know, they're the ones -	20	Transportation Safety Board had already dealt
21	EARLE, Q.C.:	21	with. But here they are with wide powers
22	Q. And the Transportation Safety Board has said	22	which concern me because I don't want to get
23	nothing in its public -	23	in a position where I'm trying to preempt the
24	COMMISSIONER:	24	Transportation Safety Board before they speak
25	Q. Exactly, exactly.	25	about something. After they speak, if we want
	Page 22		Page 2
1	EARLE, Q.C.:	1	more information, I'd get Cougar back and we'd

2

8

11

12

17

19

20

23

25

Q. - about this issue, and I would remind you,

Mr. Commissioner, that we talked about bolts 3

yesterday. 4

5 COMMISSIONER:

Q. Yes. But give me an opportunity, if you 6

7 would, to develop the theme that I'm

developing, the bolts. The Transportation

Safety Board very soon, way back in the 9

beginning of the summer, put out a bulletin 10

and they said the bolts, the titanium bolts

fractured, the oil was lost and that was the

13 proximate and immediate cause of the crash.

14 Now there may be other causes that may come

15 out in their report, I don't know, but at

least they have spoken on that point. 16

Yesterday, it was not an accident that

Ms. Fagan asked the panel here "when did you 18

order the bolts?" and let's go back for a

moment. A directive came out that the bolts

21 were to be changed within a year or 1200

22 hours, which is what I'm told by someone not

here. I think I learned it in Montreal at the

24 conference, but that's about as much as an

offshore helicopter flies in a year,

more information, I'd get Cougar back and we'd all ask them whatever we wanted to ask.

2 3

But you can see my concern. I am just as interested as you in knowing the answer to 4

5 that, but I have another role, and that is to

keep within my boundaries until the experts, 6

7 namely the Transportation Safety Board, tell

8 us what happened.

9 EARLE, Q.C.:

Q. Let me remind you of what your role is. It is 11 to have an Inquiry into helicopter safety.

12 COMMISSIONER:

Q. Absolutely. 13

14 EARLE, Q.C.:

15 Q. And you know, it's all very well for these people to come in here and list the numbers of 16

17 audits that they have. The question is not

how many audits you have. The question is are 18

19 audits effective.

20 COMMISSIONER:

21 Q. And there's nothing wrong with your asking

them that.

23 EARLE, Q.C.:

22

Q. Well, that is in essence where I'm going with 24

25

February 4, 2010	Multi-H	Page	Offshore Helicopter Safety Inquiry
Pa	age 25		Page 27
1 COMMISSIONER:		1	hear from the people whose job it is.
2 Q. You can ask them about the audits, anything	g z	2	Now this is so important that I'm going
3 you want.	~	3	to ask counsel, other counsel, might as well
4 EARLE, Q.C.:		4	take the time to sort this out properly, their
5 Q. Well, I'm not with respect, Mr.		5	views on it. Because I value the views of all
6 Commissioner, you can't know whether the		6	counsel in the room, and I'm going to start,
7 audits are effective, and this is one of the		7	if I may, not wishing to put you on the spot,
8 problems with me, because audits are done of		8	but I do want to start with C-NLOPB, if that
9 testing basis. They take samples and the fact		9	is not placing you in difficulty, as to your
of the matter is when something goes wrong			immediate reaction to going where Mr. Earle is
that's when we find out what changes need to	_		suggesting that we ought to go and where I'm
be made.			suggesting that it would be dangerous for us
13 COMMISSIONER:	13		to go, because we're not the experts who are
14 Q. Absolutely. That I don't disagree with.	12		looking at this particular aspect. So would
15 EARLE, Q.C.:	13		you like to say anything, Ms. Crosbie or Mr.
16 Q. And you've heard this morning a list of	10		Andrews?
17 changes that have been made. Now there is o			CROSBIE:
· · · · · · · · · · · · · · · · · · ·	18		I think that it's an area with a very fine line and I think that we would like some time
everybody, people here, the public, and that			
is were people operating under a misconcept			just to consider the two positions before we
as to the capability of that aircraft to fly	2		give you our position.
22 without oil in the gearbox.			MISSIONER:
23 COMMISSIONER:	23		All right.
Q. I know that. I feel the same as you.			CROSBIE:
25 EARLE, Q.C.:	25	5 Q.	Because it is right down the middle of the
	age 26		Page 28
1 Q. Now how can we know how can we know if th	ne i	1	line with respect to the Terms of Reference.
2 audits were effective if we don't know what	1	2	So I'd like to think about that for a few
3 slipped through the cracks?	1	3	minutes.
4 COMMISSIONER:	4		MISSIONER:
5 Q. Exactly, and we have got an organization which		5 Q.	All right. Would you like to make any comment
6 we're told is among the best in the world, a		6	or suggest any, Mr. Roil, way of proceeding?
7 multi-million dollar budget, with experts of	,	7	Or Ms. Fagan?
8 every kind, metallurgists, aviation experts,	1	8 MS. I	FAGAN:
9 they are looking at that. When they tell us	9	9 Q.	Yes, Commissioner. I think it would be
10 exactly what the situation was, then we can do	10	0	helpful for counsel if we took a 5-10 minute
just as you say.	1.	1	break. I may have some comments, but this is
12 EARLE, Q.C.:	12	2	an important issue and it will set the
13 Q. Well, Mr. Commissioner, I'm not going to take	13	3	direction as to where we go for the next hour
up the morning. Are you telling me I can't	14	4	or two and I think it's very careful that we
ask that question?	1:	5	approach this in the right manner. We are
16 COMMISSIONER:	10	6	treading very, very close to the line. I have
17 Q. No. Well, I'm telling you that I do not want	1'	7	my own personal view on it, but I'd prefer to
to go where we do not yet belong. When the	18	8	allow counsel to formulate their thoughts and
19 Transportation Safety Board has ruled, then we	19	9	have them speak first, if you don't mind if we
can explore all this because I have the power	20	0	take a few minutes?
21 then to recommend legislative changes and	2	1 COM	MISSIONER:
there are only two legislatures, that's	22	2 Q.	I think we could take ten minutes, take half
lac N C 11 1 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 37 1 1 1 0 0 1

24

25

an hour. You know, we have plenty of time and

we don't want to make a mistake here. Okay,

we'll adjourn for as long as it takes.

Newfoundland and Labrador and the Parliament

of Canada, and that's pretty broad power, and

I would not hesitate to use it, but I must

23

24

25

	onshore hencopter safety mqt
Page	
1 MS. FAGAN:	1 WHALEN, Q.C.:
2 Q. Thank you.	2 Q. They have, and for all I know, they may be
3 (BREAK)	3 still doing it and there may be further
4 COMMISSIONER:	4 questions. We won't know until they've
5 Q. Now ladies and gentlemen, I take it you've had	5 finalized their report, which I understand
6 an opportunity to consider all this. I think,	6 will be forwarded to you as well.
7 Mr. Whalen, as you are counsel for Cougar, I	7 COMMISSIONER:
8 would get your view first.	8 Q. Okay then, thank you, Mr. Whalen.
9 WHALEN, Q.C.:	9 WHALEN, Q.C.:
10 Q. Thank you, Commissioner Wells. Perhaps it	10 Q. Thank you.
would be helpful if I just outlined the Terms	11 COMMISSIONER:
of Reference, your mandate as set out in	12 Q. Now I'll come back to C-NLOPB. Ms. Crosbie
Section 5, and I would just like to deal with	13 MS. CROSBIE:
the limitations to framework factual position,	14 Q. Thank you, Mr. Commissioner, and I'd like to
which might assist you. "The Commissioner's	thank Mr. Whalen. His comments have clarifie
mandate does not include an examination of an	the issue somewhat with respect to Cougar
issue related to" and then there are four	being investigated by the Transportation
items listed. The first one is the	Safety Board or certainly questioned on that
airworthiness of the aircraft. Number two is	issue, and we would mirror his comments with
20 the training of the flight crew. Number three	respect to the wording of the limitation, and
is or flight procedures, and the fourth is	even more so now that we know that Cougar h
"any other matters which are included in the	been questioned on that particular issue. I
23 Transportation Safety Board of Canada's	think that it clearly falls within matters
investigation into the Cougar helicopter S-91A	being investigated by the Transportation
crash." So that is the framework that is in	25 Safety Board. But as well, under
Page	Page
which you must deal, as I understand it.	airworthiness of aircraft, training of flight
2 The other information which I think may	2 crew or flight procedures, I think that that
3 be of assistance to you is to let you know	3 particular question would fall under that
4 that the witness who was asked this question	4 limitation.
5 was questioned by the Transportation Cofety	
5 was questioned by the Transportation Safety	5 We'd also like to make a comment with
6 Board for over three hours on these specific	We'd also like to make a comment with respect to Mr. Earle's comments that this
1	
6 Board for over three hours on these specific	6 respect to Mr. Earle's comments that this
6 Board for over three hours on these specific 7 issues, as were many other Cougar employees.	6 respect to Mr. Earle's comments that this 7 Inquiry should not have been held until after
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road,
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position.	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle.
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position.	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle.
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position. COMMISSIONER:	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle. COMMISSIONER:
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position. COMMISSIONER: No, I understand what you're saying. It is interesting because I made the assumption that	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle. COMMISSIONER: Okay, thank you.
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position. COMMISSIONER: O. No, I understand what you're saying. It is interesting because I made the assumption that the Transportation Safety Board had gone into	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle. COMMISSIONER: Q. Okay, thank you.
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position. COMMISSIONER: O. No, I understand what you're saying. It is interesting because I made the assumption that the Transportation Safety Board had gone into all this with all the players. What you have	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle. COMMISSIONER: Q. Okay, thank you. Thank you. Thank you. COMMISSIONER:
Board for over three hours on these specific issues, as were many other Cougar employees. Mr. Earle has identified a very germane and important issue. However, it is in the mandate in my view of this Commission and when that report comes back to you, it may well open the exploration of these issues to this Commission. So that is our position and I hope it's of help to you and other counsel who I think may have some views to express on this. So unless you have questions, I think succinctly that is our position. COMMISSIONER: O. No, I understand what you're saying. It is interesting because I made the assumption that the Transportation Safety Board had gone into	respect to Mr. Earle's comments that this Inquiry should not have been held until after the Transportation Safety Board report had been tendered. The C-NLOPB feels very strongly that it was important for this Inquiry to commence as soon as possible. It's doing very important work with respect to helicopter transportation and ensuring that it is as safe as is reasonably practicable and waiting for the TSB report really was not an option. That could be years down the road, and so we just wanted to make that comment in response to Mr. Earle. COMMISSIONER: Q. Okay, thank you.

Tebruary 4, 2010	viuiti-i age	Offshore Hencopter Safety Inquiry
Pag	ge 33	Page 35
1 CAPP is not present. HMDC?	1	as your own contact, seem to indicate that it
2 MR. FREEMAN:	2	would be more appropriately considered at
3 Q. Transport Canada.	3	Phase 2, as HMDC and the operators have
4 COMMISSIONER:	4	indicated.
5 Q. Oh, I'm sorry, yes.	5 CON	MMISSIONER:
6 MR. FREEMAN:	6 Ç	Q. Thank you very much. Mr. Harris is not here.
7 Q. That's okay.	7	Counsel for the families, Mr. Martin?
8 COMMISSIONER:	8 MR.	. MARTIN:
9 Q. Everybody moves every day, so when I look, I'm	9 Ç	Q. Thank you, Mr. Commissioner. I'd first of all
not quite sure where everybody is. Yes.	10	like to thank you for the profession way
11 MR. FREEMAN:	11	you've handled this matter. I think we've all
12 Q. I'm content to leave it at what's already been	12	had an opportunity now to reflect on it.
said, Mr. Commissioner. We're not going to	13	As you know, I represent the families and
take a position on this issue. We're going to	14	obviously the families would like to know,
leave it to your discretion on the	15	have questions answered. They would like to
16 jurisdictional question.	16	know really what happened on March the 12th,
17 COMMISSIONER:	17	to the extent that they can. But I want to
18 Q. Okay, thank you. Now HMDC, Ms. Strickland?	18	make it clear that, as counsel for the
19 STRICKLAND, Q.C.:	19	families, I in no way intend to get into the
20 Q. Mr. Commissioner, I'm going to put forward the	20	issue of liability in the questions that I
21 position of HMDC, Suncor and Husky. We'd like	21	will have for the witnesses later on this
22 to thank Mr. Whalen for his comments. We	22	morning. But having said that, you know, and
believe that they added clarity to the issue.	23	having heard Mr. Earle's questions, I don't
We have no real objection to Mr. Earle's	24	think Mr. Earle's questions are crossing the
25 question. However, it was our understanding	25	line. I really don't. I don't think he's
Paş	ge 34	Page 36
Pag that this issue would be dealt with in Phase 2	ge 34	Page 36 probing to get at the issue of liability. I
		probing to get at the issue of liability. I think they're very fair questions and I think,
that this issue would be dealt with in Phase 2	1	probing to get at the issue of liability. I
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put	1 2	probing to get at the issue of liability. I think they're very fair questions and I think,
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then,	1 2 3 4 5	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale	1 2 3 4 5 en. 6	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University	1 2 3 4 5 en. 6	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions.
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr	1 2 3 4 5 en. 6	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universityes, Mr HURLEY, Q.C.:	1 2 3 4 5 6 7 8 9	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean,
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission.	1 2 3 4 5 6 6 y, 7 8 9 10	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase.
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission.	1 2 3 4 5 en. 6 y, 7 8 9 10 11	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going,
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of	1 2 3 4 5 6 7 8 9 10 11 12	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown?	1 2 3 4 5 6 6 y, 7 8 9 10 11 12 13	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE:	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: O. No specific submission. We note that HMDC as	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 15	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role,
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 15 es 16	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC a C-NLOPB and Cougar have covered the issue adequately.	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 and 15 es 16 17	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER:	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 15 es 16 17 18	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University, yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER: Q. So now you're not before the mic. Perhaps you	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 15 es 16 17 18 pu 19	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the answer to the question, this may be the only
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC a C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER: Q. So now you're not before the mic. Perhaps you should go on record.	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 and 15 es 16 17 18 ou 19 20	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the answer to the question, this may be the only opportunity for people like Mr. Earle and
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial Universit yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER: Q. So now you're not before the mic. Perhaps you should go on record.	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 14 15 es 16 17 18 ou 19 20 21	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the answer to the question, this may be the only opportunity for people like Mr. Earle and myself and perhaps others to ask questions of
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER: Q. So now you're not before the mic. Perhaps you should go on record. TMS. BROWN LAENGLE: Q. From the perspective of the Government of the governm	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 15 es 16 17 18 0u 19 20 21 f 22	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the answer to the question, this may be the only opportunity for people like Mr. Earle and myself and perhaps others to ask questions of people who have information relating to the
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER: Q. So now you're not before the mic. Perhaps you should go on record. MS. BROWN LAENGLE: Q. From the perspective of the Government of Newfoundland and Labrador, Mr. Whaler	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 and 15 es 16 17 18 ou 19 20 21 f 22 13's 23	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the answer to the question, this may be the only opportunity for people like Mr. Earle and myself and perhaps others to ask questions of people who have information relating to the March 12th incident.
that this issue would be dealt with in Phase 2 of your Inquiry, after the TSB have put forward their report, and that's our position. COMMISSIONER: Q. Okay, thank you, and that's yes, okay then, thank you. Cougar, you've spoke, Mr. Whale Sikorsky, Helly Hansen, Memorial University yes, Mr HURLEY, Q.C.: Q. We have no submission. COMMISSIONER: Q. No submission, all right. Government of Newfoundland and Labrador, Ms. Brown? MS. BROWN LAENGLE: Q. No specific submission. We note that HMDC at C-NLOPB and Cougar have covered the issue adequately. COMMISSIONER: Q. So now you're not before the mic. Perhaps you should go on record. TMS. BROWN LAENGLE: Q. From the perspective of the Government of the governm	1 2 3 4 5 5 en. 6 y, 7 8 9 10 11 12 13 14 14 15 es 16 17 18 19 20 21 f 22 13 24	probing to get at the issue of liability. I think they're very fair questions and I think, you know, notwithstanding the Terms of Reference, I think the line has not been crossed. It's not a fine line and I would think Mr. Earle should be permitted to ask his questions. My big concern is, and the issue that I raise, is more of a procedural one. I mean, Phase 1A is an identification of issues phase. We really don't know where Phase 1B is going, other than the fact that we'll hear from you later on in the month, Mr. Commissioner, about the issues. We don't know the extent to which 1B and subsequent phases will involve a role, if any, for people like my clients, the families. So there's a bit of confusion there. This may be, and I don't know the answer to the question, this may be the only opportunity for people like Mr. Earle and myself and perhaps others to ask questions of people who have information relating to the

	oruary 4, 2010 Mult	I-Pa	Page Offshore Hencopter Safety Inquiry
	Page 37		Page 39
1	questions were totally consistent with the	1	to compromise this Inquiry or the work of any
2	tenor of this proceedings and if it is the	2	2 other body, such as the Transportation Safety
3	only opportunity for questions to be asked and	3	3 Board.
4	for members of the families who choose to do	4	4 COMMISSIONER:
5	so to actually observe and participate in	5	5 Q. That's my concern.
6	those proceedings, then I think Mr. Earle	6	6 MR. MARTIN:
7	should be permitted to continue his	7	7 Q. No, I understand your concern, but we right
8	examination along the lines that he did. So	8	· · · · · · · · · · · · · · · · · · ·
9	it's transparency reasons that I'm looking at.	9	
10	It's procedural reasons. Unless there's going	10	•
11	to be some guarantee down the road that my	11	
12	clients and perhaps Mr. Earle's clients are	12	
13	able to ask the questions that we consider	13	
14	important at that particular time, then you	14	
15	know, maybe this is the only time to do it.	15	
16	But I just don't think Mr. Earle has crossed	16	
17	the line whatsoever.	17	
1	COMMISSIONER:	18	
19	Q. Well, thank you for your remarks. I would say	19	
20	this to you and to everyone that and I	20	-
21	think I indicated this to you, Mr. Earle, that	21	
22	when the time comes and the Transportation		22 COMMISSIONER:
23	Safety Board has done its work, I could	23	
24	certainly and wish to give everybody an	24	
25	undertaking that I will convene this group	25	_
1	and turning that 1 will convene this Brook	1	
1	Da = 20		Page 40
	Page 38		Page 40
1	again and if Cougar needs to be brought back,	1	1 MR. MARTIN:
2	again and if Cougar needs to be brought back, I will bring them back. Because I agree with	1 2	1 MR. MARTIN:2 Q. Thank you, Mr. Commissioner.
2 3	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of	1 2 3	 1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER:
2 3 4	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of	1 2 3 4	 MR. MARTIN: Q. Thank you, Mr. Commissioner. COMMISSIONER: Q. Okay then. Now counsel for the pilots, Ms.
2 3 4 5	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of	1 2 3 4 5	 1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien?
2 3 4 5 6	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will	1 2 3 4 5 6	 1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN:
2 3 4 5 6 7	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other	1 2 3 4 5 6 7	 1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm
2 3 4 5 6 7 8	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory	1 2 3 4 5 6 7 8	 1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm here representing today the families of two
2 3 4 5 6 7 8 9	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety	1 2 3 4 5 6 7 8	 1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is
2 3 4 5 6 7 8 9	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this	1 2 3 4 5 6 7 8 9	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here
2 3 4 5 6 7 8 9 10 11	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say	1 2 3 4 5 6 7 8 9 10	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and
2 3 4 5 6 7 8 9 10 11 12	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and	1 2 3 4 5 6 7 8 9 10 11 12	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's
2 3 4 5 6 7 8 9 10 11 12 13	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to	1 2 3 4 5 6 7 8 9 10 11 12 13	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general
2 3 4 5 6 7 8 9 10 11 12 13 14	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it,	1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight
2 3 4 5 6 7 8 9 10 11 12 13 14 15	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of
2 3 4 5 6 7 8 9 10 11 12 13 14 15	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two 18 particular employees of Cougar, and while I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I may make in Phase 2 with respect to	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two 18 particular employees of Cougar, and while I 19 certainly agree with Mr. Earle and Mr. Martin
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I may make in Phase 2 with respect to legislation or anything else that comes within	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two 18 particular employees of Cougar, and while I 19 certainly agree with Mr. Earle and Mr. Martin 20 that transparency is important, that people,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I may make in Phase 2 with respect to legislation or anything else that comes within that. I would not just go off myself and make	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm here representing today the families of two men who this line of questioning is particularly relevant to. I'm here representing the families of the captain and the first officer of Flight 491. Mr. Earle's question has been what was Cougar's general knowledge about flight procedures or flight conditions for the S-92 helicopter, and of course, the question on everyone's mind will be what was the knowledge of these two particular employees of Cougar, and while I certainly agree with Mr. Earle and Mr. Martin that transparency is important, that people, the public, have a genuine interest in what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I may make in Phase 2 with respect to legislation or anything else that comes within that. I would not just go off myself and make recommendations without hearing from this	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two 18 particular employees of Cougar, and while I 19 certainly agree with Mr. Earle and Mr. Martin 20 that transparency is important, that people, 21 the public, have a genuine interest in what 22 happened here today, I'd make the point that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I may make in Phase 2 with respect to legislation or anything else that comes within that. I would not just go off myself and make recommendations without hearing from this group. It's important.	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two 18 particular employees of Cougar, and while I 19 certainly agree with Mr. Earle and Mr. Martin 20 that transparency is important, that people, 21 the public, have a genuine interest in what 22 happened here today, I'd make the point that 23 there can be there's no one who's more
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	again and if Cougar needs to be brought back, I will bring them back. Because I agree with you, transparency. It's a question of jurisdiction at the moment under the Terms of Reference and if I allow the Terms of Reference to be breached, the Inquiry will lose credibility and be in dispute with other people and other entities who have a statutory role, and that's the Transportation Safety Board, to investigate every aspect of this matter, and that's really my point. But I say this to you and to everyone else that you and your clients will have an opportunity to pursue this, if it's necessary to pursue it, after the Transportation Safety Board reports, and also that those who have an interest in this matter will have an opportunity to advise me on the subject of what recommendations I may make in Phase 2 with respect to legislation or anything else that comes within that. I would not just go off myself and make recommendations without hearing from this	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1 MR. MARTIN: 2 Q. Thank you, Mr. Commissioner. 3 COMMISSIONER: 4 Q. Okay then. Now counsel for the pilots, Ms. 5 O'Brien? 6 MS. O'BRIEN: 7 Q. Thank you, Commissioner. As you know, I'm 8 here representing today the families of two 9 men who this line of questioning is 10 particularly relevant to. I'm here 11 representing the families of the captain and 12 the first officer of Flight 491. Mr. Earle's 13 question has been what was Cougar's general 14 knowledge about flight procedures or flight 15 conditions for the S-92 helicopter, and of 16 course, the question on everyone's mind will 17 be what was the knowledge of these two 18 particular employees of Cougar, and while I 19 certainly agree with Mr. Earle and Mr. Martin 20 that transparency is important, that people, 21 the public, have a genuine interest in what 22 happened here today, I'd make the point that 23 there can be there's no one who's more 24 interested in what happened on March 12th than

2

3

4

5

6

7

8

9

10

12

13

14

15

16

17

18

19

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Page 41 know as much as anyone why their husbands, 1 2 sons, fathers, did not come home that day. However, I'd like to speak a bit about 3 the procedural fairness in how those families 4 get that information. They have not been 5 6 heavily involved with the TSB, though the TSB 7 has had communication with them. But they haven't been involved in the questioning like 8 Cougar has. So Cougar has knowledge here that 10 these families yet do not. They will get that information, and my understanding to date has 11 11 been that they would first get that 12 13 information when the TSB does their draft report. There is a group that the draft 14 report is circulated to in advance. So that 15 16 group has knowledge of what's going to be in it and a chance to comment, and the families 17 of the flight crew would be among that group. 18 So that is the time that my clients are 19 expecting to get this type of information 20 20 first. They don't necessarily know what their 21 21 22 husbands, sons, fathers knew or did not know. 22 They're interested, but that was the -- that's 23 23 the scenario that they expected to first find

Page 43 to advise that the question that's being asked is outside the Terms of Reference. Mr. Whalen, as counsel for Cougar Helicopters, has advised that Cougar is being investigated or at least questioned and has been questioned extensively on this issue and it would be anticipated and expected that TSB would question them on this issue.

Ms. O'Brien, as counsel for the pilots, has also laid out the procedure, and it's very clear that the Transportation Safety Board would be dealing with this situation in their report, and therefore questions with respect to the audit process and how the audit process and what issues the audit process deals with, that may be something that can be looked at, but the question as to what Cougar Helicopters knew and the manual and those types of questions dealing with the March 12th incident. I would have to recommend could not be answered and dealt with at this stage. They can be dealt with at the second stage, but that would be my position. Thank you. 24 COMMISSIONER:

Page 42

Q. Thank you very much. Mr. Earle, I don't know

really, my reading of the Terms of Reference, clearly outside number six, Term No. 6 which says the limitations, would be -- it's not what they're expecting.

out and so to do it here today, which would be

I don't think it would be fair for those families to do it that way. It's not that they're -- they know this is going to be a public process. They understand that other people have interest as great as theirs, but I just don't think that is the appropriate way to do it. I think the appropriate way to do it is wait. We'll get the TSB report. People will know, digest the information, prepare themselves, and then we'll move back out into a public forum. So those are my comments. Thank you.

17 COMMISSIONER:

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

25

Q. Thank you. Yes, thank you, Ms. O'Brien, 18 19 because you've given us a somewhat different perspective as representing the families of 20 the deceased pilots. We've gone through the 21 list. Any comment you'd like to make, Ms. 22 Fagan. 23 24 MS. FAGAN:

Q. Commissioner, as Inquiry counsel, I would have

if you want to comment further. 1

2 EARLE, O.C.:

Q. Oh yes. Mr. Commissioner, with the greatest respect to my various colleagues, I think they make an error in understanding what determines jurisdiction. It's not the wording of a question that determines jurisdiction. It is the gravamen or importance of the question which determines jurisdiction. I find it -it's good to have a few minutes to reflect on this. We had Mr. Burt here list off, in the response to my questions, a large number of changes which Cougar has made and he talked about learnings and the basis for change with the descent profile in particular, and the clear implication, and not implication, the clear message from what he has said is "we have learned things from the experience of March 12th which has caused us to make changes." Now what is the jurisdiction of this

Inquiry? The jurisdiction of this Inquiry is to inquire as to the present state of helicopter safety, helicopter transportation safety, and to learn from it what it can about

Page 44

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

1

2

3

4

5

6

7

8

9

10

18

19

20

21

22

23

24

25

Page 46

1

2

3

4

5

6

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

go-forward reason. They want it for the -- so

those steps into an S-92 or a Puma or any

time to fly them to the offshore, and they

want to see that question asked not behind

closed doors, not interviews of three hours by

somebody from the TSB. They want to see that

question asked in a forum where they can have

someone representing their interest, somebody

they can call on the telephone, somebody they

can meet with, ask that question and probe it

So I think if you exceed to the positions

of my friends other than Mr. Martin, I will be

blunt, you will have to commit very clearly

that this question will be asked down the road

who they can send an e-mail to, somebody who

other aircraft that may be chosen from time to

that they can have comfort when they walk up

Page 45 necessary improvements to the system, the way that we manage safety, the things we do to make things safe and the question in no way relates to the mandate of the Transportation Safety Board, which is to identify the cause of the crash and make recommendations as to regulatory changes, equipment changes, training changes, whatever, that they might see as being beneficial to avoid a repetition of that sort of thing.

So there's a very narrow line, as my friend Mr. Martin said, between the areas. But what we're asking is in a question that I could have easily asked in this way "Mr. Burt, detail the basis of your learnings" and Mr. Burt, I suggest to you, if he was to answer that question, would have to have told us what they learned about that information piece. So with respect, I think that my friends are really looking at this not on the basis of where the question goes and what the gravamen of the question is and what it's all about, but on the basis of the wording alone. "Oh, this is about state of mind on March 12th, TSB." That's it. That, with respect, is a

in that kind of forum, so that these people
who after all are the people who have -- you
know, they generate the wealth that is coming
from this industry that pays the profits of
the oil companies, that pays the royalties to
the Province, that pays Cougar and pays

themselves. But none of this happens without

for those purposes.

Page 48

Page 47

superficial analysis of the question of jurisdiction.

Mr. Commissioner, I would like to echo something Mr. Martin said about transparency. Tonight on the Terra Nova FPSO, the White Rose, SeaRose FPSO, and the Hibernia Platform. people will look at video discs of these proceedings and I can tell you from the emails and telephone calls that I have received and surely you, Mr. Commissioner, must have noticed the devoted attendance by individuals members of the workforce out there at these hearings. There is a great interest in these hearings and this is a question that people want answered. They want to know did something fall through the cracks here and what has to be done to improve the situation so things like this don't fall through the cracks any more, and I couldn't think of a simpler statement of the jurisdiction of this Inquiry, finding out what has to be done so

people and those people want to have absolute comfort, as to the degree that it is possible, that, you know, if something fell through the cracks, we find out why it fell through the cracks and do whatever is necessary to see to it that the crack is closed. They're not interested in another Ocean Ranger recommendation that's still outstanding all these years afterwards. They want to see something done about it.

11 COMMISSIONER:

12 Q. Okay, thank you, Mr. Earle. Well, I'm going 13 to -- you can sit down, if you wish, because 14 I'm going to speak for a few moments on this.

15 EARLE, Q.C.:

o. Fine.

17 COMMISSIONER:

Q. We go back to the beginning. In Canada for aviation accidents and marine accidents, there is a system and the Transportation Safety Board, which is set up as an independent body, is mandated to investigate all of these accidents and tell us exactly what happened and why and how it came about, and they do that and they do it with great skill. They

things don't fall through the cracks. And

people want this question for that reason, the

go-forward reason. Not to point fingers, not

to judge liability, but they want it for the

Page 51

Page 49 have the people who are internationally recognized and often called upon by other countries and these people examine accidents and give a verdict, as it were, on what happened, why it happened and they also go further and because they have wide powers, powers to say what should be done so it doesn't happen again.

The C-NLOPB has power under its mandate

The C-NLOPB has power under its mandate, which is the mandate of the two governments, because the two governments, the federal and the Government of the Province of Newfoundland and Labrador, and Nova Scotia which has similar legislation, delegated their powers to the offshore petroleum board, the C-NLOPB and the Board regulates all matters connected with exploration and development and how its carried on and what it does, and also, it has been given the power to call an inquiry, a public inquiry under the Public Inquiries Act of Canada and the Province of Newfoundland and Labrador, to examine various aspects which fall within the C-NLOPB's jurisdiction to make regulations and to do things, and they chose to set up an inquiry which they're entitled to

Page 50

do, and the inquiry has specific terms of reference, and of course, they made a point of not having their inquiry conflict with the Transportation Safety Board's inquiry.

But in their wisdom, they added a second part to the terms of reference which said after the Transportation Safety Board has reported, and I'll read it, "upon completion of the Transportation Safety Board of Canada investigation into Cougar Helicopter Sikorsky S92A crash, the Commissioner shall undertake a review of the report therefrom and particularly the findings and shall advise C-NLOPB: A. which findings should result in actions being recommended to be undertaken by C-NLOPB and how they should be implemented." So that's what C-NLOPB will receive recommendations on. "B. other findings which should result in actions being recommended to be undertaken by other legislative or regulatory agencies." Now there are only two other legislative bodies in this instance in Canada, and that's the Parliament of Canada and the Legislature of Newfoundland and

or regulatory agencies as well. It's a pretty broad mandate.

But what they're saying to me, as Commissioner, is let the Transportation Safety Board, because there's a limitation in as to what I can do, let the Transportation Safety Board investigate the accident, come up with the causes and the reasons and everything that they're entitled to do, and recommendations as they to are, but when you get them, when their role is finished, then you can come back to these questions and see what else you ought to recommend.

Now it's been suggested that I give an undertaking, and I will give this undertaking. I've given it already. That when Phase 2 comes, the people who want to make representations on what I ought to do after the experts have determined the cause of the crash and the surrounding circumstances, after that has been determined definitively, which the Transportation Safety Board is equipped to do, then I will ask your opinions. We'll ask for further information, if I need it, or I'm, you know, requested to from Cougar or anybody

Page 52

else, and then I will ask for argument, namely submissions, probably in writing and oral also, from everybody connected with this process, the players, if I may put it that way, as to what I should recommend by way of legislative changes or changes to be undertaken by regulatory agencies.

So that the C-NLOPB, in its wisdom, set up a process which recognized the role of the TSB and gave me, as Commissioner, the opportunity, when they have reported, along with everything else that I have learned, to factor in the TSB's findings along with everything else and make final recommendations for legislative or regulatory change.

Now I have -- I can appreciate that a lot of people want to know exactly what happened on that day and what the pilots knew or didn't know and what their regulations said or didn't say about the Sikorsky. But I have the value and credibility of the Inquiry to respond to and I must always watch that and I must be careful of it, because if the Inquiry gets out of its sphere and into someone else's sphere where we don't have the expertise, but they

Labrador. So this is a pretty broad mandate,

re	bruary 4, 2010 Multi	l-Pa	age	Offshore Helicopter Safety Inquiry
	Page 53			Page 55
1	do, the Inquiry could lose credibility and	1	(certain order, and I think you can appreciate
2	even though a decision may be unpopular, I'll	2	1	that. Okay then.
3	make it to preserve the credibility of the	3		HARD BANKS, MR. RICK BURT AND MR. HANK WILLIAMS,
4	Inquiry.			ATION BY V. RANDELL J. EARLE (CONT'D)
5	So I'm not going to permit the question,		EARLE, 0	
6	but I do give an undertaking to everyone that	6		Fine. We turn to another area. The
7	they will have input at the end of the day	7	-	codispatch system, and just again to
8	when the Transportation Safety Board has	8		understand it. The dispatch is for a round
9	reported and we reconvene, and I would say to	9		trip?
10	you gentlemen that any questions involving	10	MR. BUR	
11	what is being investigated and will be	11	Α. ΄	That's correct.
12	reported on, I think this year, by the		EARLE, 0	
13	Transportation Safety Board are not to be	13		So what happens if things change, as they do
14	answered. They will come out with their	14		inevitably, and they inevitably change, but
15	report. You may or may not, but you indeed	15		sometimes they change other than as predicted.
16	may, be asked by this Commission again to come	16		What happens if weather conditions and the
17	here and tell us what you may know about any	17		like change off the predicted flight plan at
18	given thing. But at this stage, questions	18		some point in time before the helicopter gets
19	regarding the role of the Transportation	19		to the installation, but not sufficiently that
20	Safety Board and what they're investigating	20		they can't land? Is there a reassessment?
21	are not to be answered.		MR. BUR	-
1	MR. BURT:	22		Yes, there's a reassessment from, let's
23	A. That's understood.	23		suggest three areas. Number one, the pilot in
	COMMISSIONER:	24		command has the immediate and dynamic
25	Q. So I don't think I can make it any clearer. I	25		responsibility for monitoring weather.
	<u> </u>			<u> </u>
,	Page 54	١.	v	Page 56 Veather in terms of what he has from
$\frac{1}{2}$	appreciate your position, Mr. Earle, but I have to think of the credibility and the Terms	1		
$\frac{1}{2}$	•	2		nstruments in the aircraft, the radar, what
3	of Reference of the Inquiry and the fact that	3		ne visually sees in the environment that he's new new new n. Number two is the weather he'll receive
4	we can address these questions later on.	4		
1	EARLE, Q.C.:	5		rom his destination, be it the platform or
6	Q. Indeed, Mr. Commissioner, and I do hope you	6		other aircraft that are currently flying,
7	will reflect upon this further, so that it	7		eports from aircraft in the area, such as our
8	because argument and input are one thing, but	8		ircraft, the PAL aircraft, and these are
9	I will tell you that at whatever phase it is,	9		alled pilot reports. The additional one is
10	whether it's 2 or 2A or B or C, the fact of	10		he overarching or the oversight from our
11	the matter is the people who are involved want	11		lispatch department who has the responsibility
12	to be able to know that these questions have	12		o oversee the general conduct of that flight,
13	been asked of the people involved.	13		anderstanding the area, the area forecast
	COMMISSIONER:	14		onditions, and they do change and they are
15	Q. Yes.	15		pdated. That information is to be relayed to
1	EARLE, Q.C.:	16		he flight crew or passed along to his
17	Q. So it's not just a matter of submissions and	17		estination, should he be on a final approach,
18	representations.	18		or him to pick up, and they do look for those
	COMMISSIONER:	19		hanges and move ahead, and in some cases
20	Q. No, no. I agree, and there's no one who	20		uggest the weather has changed at your
21	believes in transparency of public processes,	21		Iternate. Therefore, they will redo the
22	where they be judicial or inquiries or	22		light plan, redo the fuel calculations,
23	whatever, no one believes more deeply than I	23		orward that information onto the flight crew,
24	in the transparency process. The only thing	24		orief them, and the flight will be changed as
25	is in this case, things have to follow a	25	re	equired.

Page 57 Page 59 A. Yes, sir. 1 EARLE, O.C.: 2 Q. Is this -- is there a formal point when a unit 2 EARLE, O.C.: has landed on one of the installations where Q. Did that immediately trigger the change out of 3 3 the issue of whether there is a need for any the standby aircraft or was it a few minutes 4 4 changes has to be engaged as between the pilot later with a mayday or something? 5 5 and the dispatcher? 6 MR. BURT: 6 7 MR. BURT: 7 A. It was virtually contemporaneous with the 8 A. Typically what happens is that when you land 8 initial call to put that aircraft in a preon a platform, it obviously puts a period in alert phase, as is standard in our business, 9 9 10 that round trip event, if I could use that 10 standard in our operation. What I mean by pre-alert is to notify both the maintenance expression. The flight crew many times will 11 11 go down and get the revised weather. If flight crew and the search and rescue, the 12 12 they're notified that there's weather that has first response entities, that the aircraft is 13 13 changed, and a flight plan, hat will be sent going into a pre-alert phase. 14 14 from the codispatch or the dispatch entity in 15 15 EARLE, O.C.: 16 St. John's to the radio operator for the pilot 16 Q. And what is pre -- what does pre-alert mean? to pick up and review, and if necessary, then 17 17 MR. BURT: speak directly to the dispatcher from the 18 18 A. Pre-alert means that the aircraft is being radio room in the platform. 19 19 prepped in anticipation which could be a full SAR call out and it doesn't change how they 20 EARLE, Q.C.: 20 handle the preparation of the aircraft. It 21 Q. So it would essentially be a pilot-driven 21 22 decision? 22 just basically advises the crew there will be 23 a follow on commitment to leave the ground. 23 MR. BURT: A. It would be a decision that's driven by the 24 24 EARLE, Q.C.: pilot in conference with the dispatcher and 25 Q. Okay. I'll tell you where I'm going, because Page 58 Page 60 again the codispatch function. appreciate people report to me various 1 1 2 instances that they've had. 2 EARLE, Q.C.: Q. Yes, but the contacting of the dispatcher -3 MR. BURT: A. Right. 4 MR. BURT: A. Yes. 5 EARLE, Q.C.: 6 EARLE, Q.C.: Q. And one individual has reported to me a 6 Q. - and you know, engaging a review, that would 7 situation where he was a passenger on a flight 8 -- it's the pilot who makes a decision as to 8 back from Terra Nova. The engine was shut whether that's necessary or not? down -- one engine was shut down just before 9 arrival at Terra Nova and the aircraft turned 10 MR. BURT: 10 11 A. No, it could be the dispatcher requesting the 11 around because, as I understand it, there pilot to call. wouldn't be sufficient power to land safely at 12 12 13 EARLE, Q.C.: 13 Terra Nova on the one engine. 14 Q. Okay. Now I don't think I'm going to get in 14 MR. BURT: trouble asking this question, but you never A. Okay. 15 know, because it does -- it goes to March 16 EARLE, O.C.: 16 17 12th, but it's really so we can understand the 17 Q. So that the aircraft returned to St. John's sequences of what's done and we have already 18 18 and landed in St. John's on the runway without 19 had some information on March 12th, so it's incident, and the question was asked, you 19 probably most efficient to work with it. know, what was the status of the standby 20 20 You had a standby aircraft on the ground aircraft, and it was put on -- it was told it 21 21 22 and at a point in time, you had your first 22 was put on fuelling alert, but not fuelled, knowledge that there was an issue with Flight and there was a standby alert, but seats would 23 23 24 491. 24 not have been removed from the aircraft.

25

Basically everybody was ready to -- it seemed

25 MR. BURT:

February 4, 2010 Mult	n-Page Offshore Helicopter Safety Inquiry
Page 61	Page 63
like everybody was ready to start that	1 MR. BURT:
2 process, but the process had not been started.	2 A. That's correct.
Does that sound correct to you, first of all?	3 COMMISSIONER:
4 MR. BURT:	4 Q. Just to fill me in. Is Mr. Earle correct when
5 A. I mean, that's not our standard procedure, and	5 he says that an aircraft a helicopter
6 again, that situation you speak of, I don't	6 cannot land on the rig with just one engine
7 have the particular details of it and	7 because there wouldn't be sufficient power?
8 certainly I could get them for you. But I'm	8 Is that -
9 not familiar with that particular event, the	9 MR. BURT:
details of it.	10 A. There's a number of parameters and this is
11 EARLE, Q.C.:	what we're trained in the simulator is based
12 Q. Well, the gentleman who experienced that will	upon the environmental conditions at that
be giving evidence later on.	platform at that time. The wind conditions
14 UNKNOWN SPEAKER:	and the load on the aircraft, including fuel
15 Q. Would you like to do it now?	and passengers. So that all has an effect on
16 EARLE, Q.C.:	landing on a point, a helideck with a single
17 Q. It would take too much to dig out -	engine. It's quite different than landing on
18 COMMISSIONER:	a full runway where you can do a very
19 Q. You may be able to help us pending getting the	controlled manoeuvre with especially single
information by telling us what's supposed to	20 engine. It is a critical decision point that
21 happen in your view.	21 needs to be examined when landing on a
22 MR. BURT:	platform, and again, the platform is also
23 A. Certainly, yeah. Well, what's supposed to	23 assessed from the point of view of additional
happen is if we have an aircraft that is in a	risk, landing in event of an emergency. So
25 mechanical situation or returning because of a	25 those things are all taken into consideration
Page 62	
1 mechanical situation in that manner, that an	and it is a risk model that the captain does
2 aircraft should be in a configuration that it	2 calculate.
3 can be dispatched, you know, immediately	3 COMMISSIONER:
4 should the situation become more graver. So	4 Q. Okay, thank you. Yes, Mr. Earle.
5 it gets into that standby posture.	5 EARLE, Q.C.:
6 EARLE, Q.C.:	6 Q. Okay. So in the circumstance of a loss of
7 Q. So what you're saying is what should happen in	7 engine, you would anticipate that you would
8 that situation -	8 proceed to have the aircraft ready to take off
9 MR. BURT:	9 in a search and rescue mode?
10 A. Yes.	10 MR. BURT:
11 EARLE, Q.C.:	11 A. That's correct.
Q is that the aircraft is fuelled, the seats	12 EARLE, Q.C.:
come out, and the SAR equipment goes on?	Q. Okay, and that would have been the process
14 MR. BURT:	that was initiated on March 12th essentially
15 A. That's correct. It should be being	from your first notice that there was a
16 reconfigured at that time.	16 problem?
17 EARLE, Q.C.:	17 MR. BURT:
18 Q. Yeah, the moment you get the message that	18 A. That I can speak of, that that was the
19 you're down to one engine?	19 situation on March 12th.
20 MR. BURT:	20 EARLE, Q.C.:
21 A. Yes.	Q. Now again, looking at it in terms of what
22 MR. WILLIAMS:	happens. I mean, Mr. Banks it is Banks,
23 A. Yes.	23 isn't it?
24 EARLE, Q.C.:	24 MR. BANKS:
25 Q. Okay.	25 A. Yes, it is.

	Page 65		Page 67
1 1	EARLE, Q.C.:	1	you know, rapidly from three to five minutes,
2	Q. Yeah. Said, you know, it takes three minutes	2	that can turn to 15-20 minutes rather quickly.
3	to extract an individual from water using the	3	Fighting sea state. Fighting somebody that is
4	hoist. Colonel Drover went through a time	4	really buoyant, floating on top, trying to,
5	sequence on the March 12th events and he	5	you know, situate them in such a suit to get
6	basically indicated that, as follows, and	6	them up into an aircraft. You know, we have
7	these are Zulu times: 13:25 Cougar 61 first	7	to look at decisions that are made at the
8	SAR S-92 arrived on the scene; 13:40 the	8	moment, in the water, whether it's going to be
9	second SAR S-92, that's Cougar 62, arrived on	9	a Stokes litter hoist, which takes a lot more
10	the scene; and 14:25 Cougar 61 departs with	10	time, a double up. You know, the individual,
11	Mr. Decker on board; and then he indicated at	11	you need to get them out of the water, but you
12	14:28, three minutes later, the two Cormorants	12	also have to think about hypothermia state in
13	arrived on scene. Could you tell us what	13	a vertical lift situation. You know, what is
14	would have been I mean, we know that Mr.	14	he at right now? I know everybody wants to
15	Decker was extracted from the water. We know	15	get him out as quickly, effectively as
16	that another rescue specialist was put in the	16	possible, but there's many more parallels to
17	water. Could you tell us what would have	17	that. For someone to just state three to five
18	taken up that hour? Because and I tell you	18	minutes, he should be up and gone, that's very
19	quite frankly where I'm coming from on this.	19	easily said. To actually do it and experience
20	I think Colonel Drover left us with a bit of	20	it, you know, plan A, B, C again goes very
21	an impression that once you got a helicopter	21	quickly to D. So you have to do it so that
22	out there, I mean, you know, referencing sea	22	you maintain survivability of the victim you
23	states, whether it was basically, it could be	23	have alive at the time.
24	a continuous operation of plucking people out	24	Again, once he's up and it's taken a bit
25	of the water or out of a life boat, and your	25	of time, deceleration injury, any accident,
	Page 66		Page 68
1	first flight was there for an hour and you	1	force like that, you can suspect immediately

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

first flight was there for an hour and you

ended up making a decision that Mr. Decker's

situation was critical, left a man in the

water with Allison Maher, and the other aircraft. You know, what took up the time

such that you -- in that time, you only

recovered the one person with the one

8 aircraft?

9 MR. BANKS:

2

3

4

5

6

7

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A. Well, the statement was made yesterday that anywhere from three to five minutes is usually a single hoist, you know, but you've got to look at other parameters. You know, we have water conditions. We have how did the individual end up in the water, for one thing. Did he fall over the side of the boat uninjured? Can he just be pulled up? In a case of an accident, if you have deceleration injuries, there's a lot more critical care has to go into providing to an individual, figuring out what kind of physiological state he's in, such as spinal injuries, neck, Cspine. That has to be addressed. That takes time, in the water, floating, trying to make

these to an incoherent victim or survivor. So

spinal immobilization or C-spine. Then, there is also, once inside, the prep, getting him the proper care for a couple of minutes. Getting him stretched out, you know, maybe getting the suit off. I wasn't there, but you know, I heard basically how it was entailed inside the aircraft. Readying at the same time for a second individual to get in the water for a known, another victim in the water. So you know, now you have calls that have to be pulled around while they're working on one in the back. That takes up another two bodies. One guy is now working on the victim that you have alive, the survivor. So a couple of more minutes pass in just relocating the aircraft in the wind over another position.

Now you have to make decisions whether it's going to be a front door entry or a hoist down into the water. Certainly with the thought of criticality of an injured individual in the back, this is still communication back and forth up front, what are we doing? How are going? Where are we

Fel	oruary 4, 2010 M	Iulti-Page™ Offshore Helicopter Safety Inqui	<u>ry</u>
	Page	Page	71
1	going? Have you got you know, are you set	1 Q. And the weight you have on board, and the	
2	for the second hoist? Are you set for the	weather conditions, they all limit how long	
3	second entry? Let's get in. Get somebody in	you can stay out there?	
4	with her. But we're certainly not going to	4 MR. BANKS:	
5	leave our individual out there by himself in	5 A. That's true.	
6	the water in the ocean when we could wait a	6 EARLE, Q.C.:	
7	couple of minutes for another aircraft to be	7 Q. Now I'm interested in auto hover. I've done a	
8	on scene. We're not going to add potential	8 little bit of looking around on this and it	
9	harm to another individual in such a case.	9 seems to me that the S-92, when it was	
10	So as much as people see three to five	marketed by Sikorsky, came or was presented in	1
11	minutes, that can pass rather quickly to an	two configurations. There was a search and	
12	hour. So, you know.	rescue configuration and a transport, for want	
13	EARLE, Q.C.:	of a better word, configuration, and Mr. Burt,	
14	Q. That's very helpful, Mr. Banks.	you probably were more intimately involved	
15	MR. BANKS:	with this than any of the others.	
16	A. Okay.	16 MR. BURT:	
17	EARLE, Q.C.:	17 A. Um-hm.	
18	Q. I must say it's more in accord with what	18 EARLE, Q.C.:	
19	the impression that I had of the kind of time	19 Q. Is that generally correct?	
20	that a rescue task like this would take.	20 MR. BURT:	
21	Would it be fair to say then that it's not	21 A. It was presented in a number of marketing	
22	unreasonable, if you've got people in the	22 configurations, SAR, VIP, passenger	
23	water, that getting, say, two people out of	configurations, yes.	
24	the water could take an hour?	24 EARLE, Q.C.:	
25	MR. BANKS:	25 Q. Yeah, and the unit was, as I understand it,	
	Page	e 70 Page	72
1	A. It possibly could, yes. Now, you know, we're	and I understand that you bought it in this	
2	into a life raft situation, as you mentioned	fashion, the unit was put out there as having	
3	earlier, that's a guideline situation where	an auto hover capacity.	
4	the rescue man would stay in the life raft and	4 MR. BURT:	
5	up and down would rapidly occur and you coul	d 5 A. No. When we purchased the aircraft, it did	
6	get many individuals out. Again, sea state,	6 not have auto hover, but what we did do is	
7	you know, there's all these things	7 purchase it with provisions that would allow	
8	environmentally we have to look at. Sea	8 it to when the auto hover was certified, to	
9	state, the lift, the hypothermia state, again	9 complete.	
10	the injury. So yeah, there's you know,	10 EARLE, Q.C.:	
11	there's so many variances that you can't just	Q. But that's not my question. I'm talking about	
12	limit a number on it.	how Cougar marketed the thing.	
13	EARLE, Q.C.:	13 MR. BURT:	
14	Q. So would it be fair to say that really three	14 A. No, we never marketed it with auto hover.	
15	to five minutes on a repetitive basis, that's	15 EARLE, Q.C.:	
16	really a best case scenario? You've got the	Q. What do you call auto hover in the trade?	
Ι.	•		

17 people -

18 MR. BANKS:

A. That's a very, very best case scenario. 19

20 EARLE, Q.C.:

21 Q. Yeah, okay. Thank you. And the fuel

22 considerations?

23 MR. BANKS:

24 A. Certainly.

25 EARLE, Q.C.:

19 featuring three access stability augmentation system and fully coupled dual digital auto 20 21 pilot with automatic approach to hover

I'll just read you a description. "The sun

strand automatic flight control system

22 option."

23 MR. BURT:

17

18

24 A. Yes. That's a basic auto pilot system, auto 25

stability system.

February 4, 2010 Mul	ti-Page Offshore Helicopter Safety Inquiry
Page 7	Page 75
1 EARLE, Q.C.:	1 Q. I noticed you're described as the launch
2 Q. So it's an auto stability system?	2 customer for the S-92.
3 MR. BURT:	3 MR. BURT:
4 A. Correct.	4 A. Right, we actually brought serial number 10.
5 EARLE, Q.C.:	5 We were number 10, and there were five
6 Q. It's not auto pilot?	6 development aircraft.
7 MR. BURT:	7 EARLE, Q.C.:
8 A. No, it's an auto pilot, so three axes would be	8 Q. So there were four went elsewhere in the
9 heading, altitude, and air speed.	9 market?
10 EARLE, Q.C.:	10 MR. BURT:
11 Q. Uh-hm.	11 A. Correct, yes.
12 MR. BURT:	12 EARLE, Q.C.:
13 A. And that's within the parameters of that level	13 Q. You got yours first, but at least some of your
of auto pilot certification, and that's	14 aircraft came to you with everything but the
when we talked about these minimum instrument	15 software?
speeds, they're all subject to that basic auto	16 MR. BURT:
pilot. So you're not allowed to go any slower	17 A. Pretty well, yes.
than the 55 knots.	18 EARLE, Q.C.:
19 EARLE, Q.C.:	19 Q. Yeah, now and you say the software has got
20 Q. Okay, well, you've indicated that the aircraft	20 to be certified?
is going to auto pilot auto hover	21 MR. BURT:
22 MR. BURT:	22 A. Correct.
23 A. Auto hover, yes.	23 EARLE, Q.C.:
24 EARLE, Q.C.:	Q. Auto hover was not a new thing when you bought
25 Q. By virtue of the addition of software?	25 these aircraft?
Page 7	Page 76
1 MR. BURT:	1 MR. BURT:
2 A. Correct.	2 A. Auto hover, in general you mean was not a new
3 EARLE, Q.C.:	thing, or auto hover specifically to the S-92?
4 Q. So I take it that the aircraft came with	4 EARLE, Q.C.:
5 mechanics or the electronics to accommodate	5 Q. Auto hover, generally?
6 auto hover software?	6 MR. BURT:
7 MR. BURT:	7 A. No, it was a well known capability in search
8 A. Right, some of some of our fleet, to be	8 and rescue circles.
9 clear, had all of the mechanics to do auto	9 EARLE, Q.C.:
10 hover, some of them needed a couple minor	10 Q. So if the operators had spec'd auto hover, you
upgrades, and I can be specific about those,	could have gone out and gotten it, maybe not
if you wish. It was the addition of a second	on the S-92, but you could have gone out and
radar altimeter which shows our height and	gotten it?
also some wiring to one of the control devices	14 MR. BURT:
in the cockpit.	15 A. Speaking with the S-92, the auto hover was not
16 EARLE, Q.C.:	certified when we purchased that aircraft, so
17 Q. Uh-hm, but, I mean, as you said, some of them?	17 that would have been a process of
18 MR. BURT:	certification as we're in right now. Auto
19 A. Yes.	19 hover with other types of aircraft such as the
20 EARLE, Q.C.:	20 EC225, I'm not sure at that point whether it
21 Q. And did you fellows buy aircraft frame number	was certified or not. I can't confirm that.
22 one?	22 EARLE, Q.C.:
23 MR. BURT:	23 Q. And, you know, sometimes what you find in the
24 A. No.	24 internet is not overly reliable, but
25 EARLE, Q.C.:	25 MR. BURT:
	-

Page 77 A. Fill back that one up. 2 EARLE, Q.C.: 3 Q. I've seen a promotion for one of your hebitoper competitors who provides search and rescue services in Ireland, so you know who that its. 5 MR, BURT: 6 Q. Bully ou actually bought then for Nova Scotia as well? 7 MR, BURT: 8 A. Yes. 9 FARLE, Q.C.: 10 Q. And claiming to have, and have had for a number of years now— 12 MR, BURT: 15 A. Yes. 16 MR, BURT: 16 MR, BURT: 17 A. This is the 61s? 18 FARLE, Q.C.: 19 Q. Yeah. 20 MR, BURT: 21 MR, BURT: 22 MR, BURT: 23 A. Yes, 34 MR, BURT: 45 A. Yes, 46 MR, BURT: 47 A. We have an aircraft in Nova Scotia, that's correct, and that implemented last year. 48 MR, BURT: 49 A. We have an aircraft in Nova Scotia, that's correct, and that implemented last year. 49 MR, BURT: 40 Q. Yesh. 40 MR, BURT: 41 A. Ves. We have another aircraft, S-92, in the search of Market and the end of MR, BURT: 41 A. Yes, We have another aircraft, S-92, in the search of MR, BURT: 41 A. Yes, We have another aircraft, S-92, in the search of MR, BURT: 42 A. Yesh, and they've been there a lot longer than 2 four years. They've had auto hover—auto 2 four years. They are hard of the search	repruary 4, 2010 Mil	nul-Page Offshore Hencopter Safety Inquiry
SEARLE_QC: 2	Page	77 Page 79
3 MR_BURT 4 EARLE_QC: 15 Q_Rour aircraft with auto hover. 16 MR_BURT 17 MR_BURT 17 MR_BURT 18 MR_BURT 18 MR_BURT 18 MR_BURT 18 MR_BURT 19 MR_BURT 19 MR_BURT 19 MR_BURT 19 MR_BURT 10 Correct, and that implemented last year. 11 EARLE_QC: 13 MR_BURT 14 MR_BURT 15 MR_BURT 16 MR_BURT 17 MR_BURT 17 MR_BURT 18 MR	1 A. I'll back that one up.	1 EARLE, Q.C.:
3 M.R. BURT: 5 New Seen a promotion for one of your that is. 6 rescue services in Ireland, so you know who that is. 7 M.R. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. And claiming to have, and have had for a number of years now — 11 number of years now — 12 M.R. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 Q. Four aircraft with auto hover. 16 M.R. BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 M.R. BURT: 21 A. Yeah, and they've been there a lot longer than 20 your first acquisition? 21 M. Four years. They've had auto hover — auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: 26 Q. So the predecessor — not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 26 M.R. BURT: 27 A. That's a fair assessment, yeah. 28 EARLE, Q.C.: 29 A. We have an aircraft in Nova Scotia, that's 10 correct, and that implemented last year. 11 EARLE, Q.C.: 13 M.R. BURT: 14 A. Yes. We have another aircraft, S-92, in the 15 Gulf of Mexico. 16 EARLE, Q.C.: 18 M.R. BURT: 20 A. That's correct. 21 EARLE, Q.C.: 22 Q. At least then — I take it then, your 2006 was 23 one that was fully ready for auto hover? 23 M.R. BURT: 24 A. That's a fair assessment, yeah. 25 EARLE, Q.C.: 26 C. This auto hover software because Cougar 8 has said we want that option, and so it's got 10 to day, and it — so it was equipped with auto hover? 15 EARLE, Q.C.: 15 EARLE, Q.C.: 16 C. Rus you actually bought then for Nova Scotia. that's 10 correct, and that implemented last year. 11 EARLE, Q.C.: 28 M.R. BURT: 29 A. That's or early that auto hover? 21 A. That's correct. 21 EARLE, Q.C.: 21 EARLE, Q.C.: 22 Q. At least then — I take it then, your 2006 was 30 one that was fully ready for auto hover? 24 M.R. BURT: 25 A. It was all but ready. Again with the radar Parady. 31 EARLE, Q.C.: 32 EARLE, Q.C.: 33 M.R. BURT: 4 A. Correct. 55 EARLE, Q.C.: 54 A. We have an aircraft in Nova Scotia, that's 10 correct, and that	2 EARLE, Q.C.:	2 Q. Okay, that's the ones here?
helicopter competitors who provides search and rescue services in Ireland, so you know who for that is. 7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. And claiming to have, and have had for a mumber of years now— 12 MR. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 Q. Four aireraft with auto hover. 16 MR. BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 MR. BURT: 10 Q. So the predecessor here a lot longer than four a four predecessor because I know there's 76s and different things, but it does seem to be that different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of behicropters. 19 Q. It's a 1960s model helicopter which still has to hover? 19 MR. BURT: 10 Q. So the predecessor because I know there's 76s and different things, but it does seem to be that the 62 predecessor because I know there's 76s and different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of behicropters. 10 Q. Now the S-92, you had them come in service in 2005? 11 S MR. BURT: 12 A. This is a 1960s model helicopter which still has to correct, and that implemented last year. 12 Q. I he PR from Sikorsky said you ordered five? 13 MR. BURT: 14 A. Yes. We have an aircraft in Nova Scotia, that's correct, and that implemented last year. 14 A. Yes. We have an aircraft in Nova Scotia, that's correct, and that implemented last year. 15 Q. The PR from Sikorsky said you ordered five? 16 A. This is the 61s? 17 Q. Yeah, Oaay, So was the one that came here in 18 MR. BURT: 20 A. That's correct. 21 EARLE, Q.C.: 22 Q. At least then—I take it then, your 2006 was 2 none that was fully ready for auto hover? 23 MR. BURT: 24 Q. Till me what drives the certification process? 25 EARLE, Q.C.: 26 A. That's a fair assessment, yeah. 27 EARLE, Q.C.: 28 EARLE, Q.C.: 29 Q. It's a 1960s model helicopter which still has to be certified? 29 Q. It's a 1960s model helicopter which still has to be certified? 20 D. The predecessor has been hanging in the works since 2 to be cer	3 Q. I've seen a promotion for one of your	3 MR. BURT:
s rescue services in Ireland, so you know who that is. 7 MR, BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. And claiming to have, and have had for a mumber of years now 11 mumber of years now 12 MR, BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 Q. Four aircraft with auto hover. 15 Gulf of Mexico. 16 MR, BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 We have an aircraft in Nova Scotia, that's correct, and that implemented last year. 11 EARLE, Q.C.: 13 MR, BURT: 14 EARLE, Q.C.: 15 Gulf of Mexico. 16 EARLE, Q.C.: 17 Q. Yeah, oay. So was the one that came here in 2005 your first acquisition? 18 EARLE, Q.C.: 19 Q. Yeah, and they've been there a lot longer than four years. They've had auto hover - auto 21 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 22 EARLE, Q.C.: 23 A. That's a fair assessment, yeah. 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 4 MR, BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 2 A. That's a fair assessment, yeah. 8 HARIK, Q.C.: 2 C. The R from Sikorsky said you ordered five? 13 MR, BURT: 2 Q. The RR from Sikorsky said you ordered five? 13 MR, BURT: 14 A. Yes. We have another aircraft, S-92, in the 61 Relicoper. 15 Gulf of Mexico. 16 EARLE, Q.C.: 17 Q. Yeah, oay. So was the one that came here in 2005 your first acquisition? 18 LEARLE, Q.C.: 2 A. That's correct. 2 EARLE, Q.C.: 2 A. That's correct. 2 A. It was all but ready. Again with the radar 2 and thimter and some wiring, yes, it was all but ready. Again with the radar 2 and thimter and some wiring, yes, it was all but ready. Again with the radar 2 and thimter and some wiring, yes, it was all but ready. Again with the radar 2 and thimter and some wiring, yes, it was all but ready and it—so it was equipped with auto today, and it—so it was equipped with auto tod	<u> </u>	4 A. Correct.
b that is. 7 MR. BURT: 9 EARLE, Q.C.: 12 MR. BURT: 9 LARLE, Q.C.: 12 MR. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 MR. BURT: 16 MR. BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 10 MR. BURT: 10 MR. BURT: 11 EARLE, Q.C.: 12 MR. BURT: 12 MR. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 G. Four aircraft with auto hover. 16 MR. BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 10 MR. BURT: 10 MR. BURT: 11 EARLE, Q.C.: 12 MR. BURT: 12 MR. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 G. Four aircraft with auto hover. 16 EARLE, Q.C.: 17 Q. Yeah, and they've been there a lot longer than four years. They've had auto hover — auto hover professed by the same has been in Sikorsky poducts in the predecessor because I know there's 76s and different things, but it does seem to be that different things, but it does seem to be that the fell, the Sikorsky 61, was almost the 737 of helicopters. 18 MR. BURT: 20 A. That's correct. 21 EARLE, Q.C.: 22 Q. At least then — I take it then, your 2006 was an aircraft in Nova Scotia, that's a fine timplemented last year. 16 EARLE, Q.C.: 17 Q. Yeah. 18 MR. BURT: 20 Yesh, okay. So was the one that came here in in in a second one came in in 2005, and was an aircraft in Nova Scotia, that's a fine timplemented last year. 18 EARLE, Q.C.: 19 Q. Yeah. 10 O. Yeah, okay. So was the one that came here in in a second one came in in 2005, and was an aircraft in implemented last year. 16 EARLE, Q.C.: 27 Q. Yeah. 28 EARLE, Q.C.: 29 Q. It's a 1960s model helicopter which still has hower? 29 A. That's a fair assessment, yeah. 20 EARLE, Q.C.: 21 EARLE, Q.C.: 22 Q. It's a 1960s model helicopter which still has hower? 23 MR. BURT: 24 A. Correct. 25 EARLE, Q.C.: 26 EARLE, Q.C.: 27 D. The PR from Sikorsky said you ordered five? 28 EARLE, Q.C.: 29 Q. It's a 1960s model helicopter which still has hower another aircraft, S-92, in the EARLE, Q.C.: 29 Q. It's a 1960s model helicopter which still has hower there in 10 to day, and it — so it was equipped with auto	1	
7 MR. BURT: 8 A. Yes. 9 EARLE, Q.C.: 10 Q. And claiming to have, and have had for a number of years now— 11 number of years now— 12 MR. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 Q. Four aircraft with auto hover. 16 MR. BURT: 17 Q. Yeah, Q.C.: 18 EARLE, Q.C.: 19 Q. Yeah. 20 Weah, Washington on the state of the produces of t	·	
8 A. Yes. 9 EARLE, Q.C.: 10 Q. And claiming to have, and have had for a number of years now— 11 number of years now— 12 Mr. BURT: 12 Mr. BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 Q. Four aircraft with auto hover. 16 Mr. BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 Mr. BURT: 21 A. Yeah, and they've been there a lot longer than four years. They've had auto hover—auto and four years. They've had auto hover—auto are four years and hover has been in state it then, your 2006 was a one that was fully ready for auto hover? 2 EARLE, Q.C.: 2 Page 80 3 MR. BURT: 3 MR. BURT: 4 D. Tall me what drives the certification process? 5 I mean, is the reason that there is now a certi		
9 EARLE, Q.C.: 10 Q. And claiming to have, and have had for a linumber of years now — 11 number of years now — 12 MR BURT: 13 A. Yes. 14 EARLE, Q.C.: 15 Q. Four aircraft with auto hover. 15 Q. Four aircraft with auto hover. 16 EARLE, Q.C.: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 MR, BURT: 21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover — auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: 27 Q. The PR from Sikorsky said you ordered five? 28 EARLE, Q.C.: 29 Q. Yeah, okay. So was the one that came here in 2005 your first acquisition? 29 MR, BURT: 20 A. That's acquisition? 20 A. That's correct. 21 EARLE, Q.C.: 21 EARLE, Q.C.: 22 A least then — I take it then, your 2006 was one that was fully ready for auto hover? 24 MR, BURT: 25 EARLE, Q.C.: 26 Tour years. They've had auto hover — auto 25 hover has been in Sikorsky products in the 25 not that 4 the 61, the Sikorsky foll, was almost the 737 of 5 helicopters. 25 EARLE, Q.C.: 26 Tour years. They've had auto hover — auto 22 four years. They've had auto hover — auto 23 nor that was fully ready for auto hover? 27 EARLE, Q.C.: 28 EARLE, Q.C.: 29 Q. It's a fair assessment, yeah. 29 La Relucccccccccccccccccccccccccccccccccccc	8 A Yes	
10 Q. And claiming to have, and have had for a number of years now 11 EARLE, Q.C. 12 Q. The PR from Sikorsky said you ordered five? 12 Q. The PR from Sikorsky said you ordered five? 13 MR. BURT: 14 A. Yes. We have another aircraft, S-92, in the 15 Gulf of Mexico. 16 MR. BURT: 16 EARLE, Q.C. 17 Q. Yeah, okay. So was the one that came here in 18 2005 your first acquisition? 18 EARLE, Q.C. 18 Q. Yeah, okay. So was the one that came here in 18 2005 your first acquisition? 19 Q. Yeah. 19 MR. BURT: 20 A. Thai's correct. 20 A. Thai's correct. 21 EARLE, Q.C. 22 Q. At least then I take it then, your 2006 was one that was fully ready for auto hover? 24 MR. BURT: 25 A. It was all but ready. Again with the radar 19 A. Yes. 19 A. Ye		
11 number of years now 12 MR. BURT: 12 Q. The PR from Sikorsky said you ordered five? 13 MR. BURT: 13 MR. BURT: 14 A. Yes. We have another aircraft, S-92, in the 15 Q. Four aircraft with auto hover. 15 Gulf of Mexico.		
12 MR. BURT: 13 A. Yes. 13 MR. BURT: 14 A. Yes. 13 MR. BURT: 15 Q. Four aircraft with auto hover. 15 Q. Four aircraft with auto hover. 16 MR. BURT: 16 EARLE, Q.C.: 17 Q. Yeah, okay. So was the one that came here in 18 EARLE, Q.C.: 18 Q. Yeah. 19 Q. Yeah. 19 Q. Yeah. 19 Q. Yeah, okay. So was the one that came here in 18 EARLE, Q.C.: 18 Q. Yeah. 19 Q. Yeah. 19 MR. BURT: 20 A. That's correct. 21 EARLE, Q.C.: 22 Q. At least then — I take it then, your 2006 was 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 24 MR. BURT: 25 A. It was all but ready. Again with the radar 22 Q. So the predecessor — not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 5 helicopters. 5 helicopters. 6 certification application to the Ala in the US 1 mean, is the reason that there is now a 2 the Ala in the US 3 EARLE, Q.C.: 2 hover? 13 MR. BURT: 16 Q. Now the S-92, you had them come in service in 16 A. No, the first aircraft that we ordered, a 2 completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the cartification is still pending. 2	1	
13 M. BURT: 14 A. Yes. We have another aircraft, S-92, in the 15 Q. Four aircraft with auto hover. 15 Gulf of Mexico. 16 MR. BURT: 17 A. This is the 61s? 17 Q. Yeah, okay. So was the one that came here in 18 EARLE, Q.C.: 18 2005 your first acquisition? 19 Q. Yeah. 20 MR. BURT: 20 MR. BURT: 20 A. That's correct. 21 A. Yeah, and they've been there a lot longer than 22 A. That's correct. 21 A. Yeah, and they've been there a lot longer than 22 A. That's correct. 23 A. That's correct. 24 Mng Kong Police Force since the 80s. 24 Mng Kong Police Force since the 80s. 25 A. It was all but ready. Again with the radar 25 A. That's correct. 26 A. That's a fair assessment, yeah. 27 ready. 3 EARLE, Q.C.: 4 Q. Tell me what drives the certification process? 4 Q. Tell me what drives the certification process? 4 Q. Tell me what drives the certification process? 5 A. That's a fair assessment, yeah. 5 A. That's a fair assessment, yeah. 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 8 A. Stake, U.C.: 10 A. Right. 4 A. Correct. 14 2005? 15 MR. BURT: 15 A. Right. 4 A. Correct. 16 A. No, the first aircraft that we ordered, a roughly large numbers operating in the world of the process of the proces	•	
14 EARLE, Q.C.: 15 Q. Four aircraft with auto hover. 16 MR, BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 MR, BURT: 21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover - auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: 26 Page 78 27 Q. So the predecessor not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 26 MR, BURT: 27 A. That's a fair assessment, yeah. 28 EARLE, Q.C.: 29 Q. It's a 1960s model helicopter which still has 2 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 2 Q. I think your second one came in in 2005, 22 actually? 20 A. That's take then I take it then, your 2006 was one that was fully ready for auto hover? 21 EARLE, Q.C.: 22 A. It was all but ready. Again with the radar 23 one that was fully ready for auto hover? 24 MR, BURT: 25 A. It was all but ready. Again with the radar 26 MR, BURT: 27 A. That's a fair assessment, yeah. 28 EARLE, Q.C.: 29 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 2005? 17 2005? 18 MR, BURT: 18 BARLE, Q.C.: 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 22 Q. I think your second one came in in 2005, 24 A. Yes.		• •
15 Q. Four aircraft with auto hover. 16 MR. BURT: 16 EARLE, Q.C.: 17 Q. Yeah. 2005 your first acquisition? 18 EARLE, Q.C.: 18 Q.O. Yeah. 2005 your first acquisition? 19 MR. BURT: 20 A. That's correct. 21 EARLE, Q.C.: 22 A. That's correct. 22 G. A. That's correct. 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 24 MR. BURT: 25 A. It was all but ready. Again with the radar 22 FARLE, Q.C.: 25 EARLE, Q.C.: 25 A. It was all but ready. Again with the radar 22 ready. 3 EARLE, Q.C.: 3 EARLE, Q.C.: 4 Q. Tell me what drives the certification process? 4 Q. Tell me what drives the certification process? 5 helicopters. 5 Large and the first one is 2005, 2006, and 2007 24 MR. BURT: 16 Q. Now the S-92, you had them come in service in 18 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 19 EARLE, Q.C.: 20 Larle, Q.C.: 20 Larle, Q.C.: 20 Larle, Q.C.: 21 EARLE, Q.C.: 22 C. It hink your second one came in in 2005, 22 C. It first tone is 2005, 2006, and 2007 24 A. Yes. 24 A. Yes. 25 MR. BURT: 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 27 MR. BURT: 28 MR. BURT: 28 MR. BURT: 29 Q. It first alone is 2005, 2006, and 2007 24 A. Yes. 29 Q. It first one is 2005, 2006, and 2007 24 A. Yes. 29 Q. It first tone is 2005, 2006, and 2007 24 A. Yes. 29 Q. It's taken two years?		
16 MR. BURT: 17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 MR. BURT: 21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover — auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: 25 EARLE, Q.C.: 26 A. That's correct. 21 EARLE Q.C.: 26 A. It was all but ready. Again with the radar 27 one that was fully ready for auto hover? 28 MR. BURT: 29 A. It was all but ready. Again with the radar 29 Q. So the predecessor — not quite the 20 predecessor because I know there's 76s and 31 different things, but it does seem to be that 44 the 61, the Sikorsky 61, was almost the 737 of 55 helicopters. 66 MR. BURT: 66 MR. BURT: 77 A. That's a fair assessment, yeah. 87 EARLE, Q.C.: 88 EARLE, Q.C.: 99 Q. It's a 1960s model helicopter which still has to very large numbers operating in the world to day, and it — so it was equipped with auto to hover? 10 MR. BURT: 11 A. Yes. 12 EARLE, Q.C.: 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 Q. I think your second one came in in 2005, 2006, and 2007 19 MR. BURT: 20 A. That's correct. 21 EARLE, Q.C.: 21 A least then — I take it then, your 2006 was one that was fully ready for auto hover? 24 MR. BURT: 25 Last Lie, Q.C.: 26 A. It was all but ready. Again with the radar 27 Last Lie and La		
17 A. This is the 61s? 18 EARLE, Q.C.: 19 Q. Yeah. 20 MR. BURT: 21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover — auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: 26 EARLE, Q.C.: 27 Page 78 28 LA LE, Q.C.: 29 Predecessor — not quite the 20 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 4 EARLE, Q.C.: 4 Q. Tell me what drives the certification process? 5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it — so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 MR. BURT: 10 Q. I think your second one came in in 2005, 21 Q. I think your second one came in in 2005, 22 actually? 24 A. The first one is 2005, 2006, and 2007 24 A. That's a fixer acquisition? 25 LARLE, Q.C.: 26 Q. Yeah, Oxoy the first acquisition? 26 A. That's correct. 27 A. That's correct. 28 LARLE, Q.C.: 29 Q. A. That's correct. 21 Q. I think your second one came in in 2005, 20 Lexelle, Q.C.: 21 Q. I think your second one came in in 2005, 21 EARLE, Q.C.: 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
18 EARLE, Q.C.: 19 Q. Yeah. 19 MR. BURT: 20 A. That's correct. 21 A. Yeah, and they've been there a lot longer than 21 EARLE, Q.C.: 22 Q. At least then — I take it then, your 2006 was one that was fully ready for auto hover? 24 Hong Kong Police Force since the 80s. 24 MR. BURT: 25 EARLE, Q.C.: 25 A. It was all but ready. Again with the radar 27 Page 80 28 Page 80 29 Page 80 2		
19 Q. Yeah. 20 MR. BURT: 20 A. That's correct. 21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 24 MR. BURT: 25 A. It was all but ready. Again with the radar 25 A. It was all but ready. Again with the radar 26 A. It was all but ready. Again with the radar 27 A. That's a fair assessment, yeah. 28 EARLE, Q.C.: 4 Q. Tell me what drives the certification process? 1 Image. A that is a fair assessment, yeah. 2 For this auto hover software because Cougar 8 has said we want that option, and so it's got to be certified? 1 A. Yes. 12 EARLE, Q.C.: 13 MR. BURT: 13 Q. Or has it been hanging in the works since 14 A. Correct. 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 2 O05? 18 MR. BURT: 18 MR. BURT: 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 Vears ago that we had made that request and the certification is still pending. 18 MR. BURT: 20 Lit's taken two years? 21 MR. BURT: 22 MR. BURT: 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes. 24 A. Yes. 24 A. Yes. 25 A. It was all but ready. Again with the radar 26 A. No. The first one is 2005, 2006, and 2007 24 A. Yes. 26 A. No. The first one is 2005, 2006, and 2007 24 A. Yes. 25 A. It was all but ready. A That's taken two years? 25 A. It w		•
20 MR. BURT: 21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: 26 Page 78 27 Q. At least then I take it then, your 2006 was 28 one that was fully ready for auto hover? 29 A. It was all but ready. Again with the radar Page 78 20 Page 80 21 Q. So the predecessor not quite the 22 predecessor because I know there's 76s and 23 different things, but it does seem to be that 24 the 61, the Sikorsky 61, was almost the 737 of 25 helicopters. 26 MR. BURT: 27 A. That's a fair assessment, yeah. 28 EARLE, Q.C.: 39 Q. It's a 1960s model helicopter which still has 30 very large numbers operating in the world 31 today, and it so it was equipped with auto 31 hover? 32 HARLE, Q.C.: 33 MR. BURT: 34 A. Correct. 35 EARLE, Q.C.: 36 Q. Now the S-92, you had them come in service in 37 2005? 38 MR. BURT: 39 Q. Now the S-92, you had them come in service in 39 Q. Now the S-92, you had them come in service in 30 Q. The sit been hanging in the works since 31 A. No, the first aircraft that we ordered, a 31 Completion on the auto hover was our serial 39 Q. It's taken two years? 30 A. That's correct. 31 MR. BURT: 32 LARLE, Q.C.: 32 A. It was all but ready. Again with the radar Page 80 31 A. It was all but ready. Again with the radar Page 80 4 MR. BURT: 4 Q. Tell me what drives the certification process? 5 I mean, is the reason that there is now a 6 certification application to the FAA in the US 7 for this auto hover software because Cougar 8 has said we want that option, and so it's got 10 MR. BURT: 11 A. Yes. 12 EARLE, Q.C.: 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 18 number 61, and that aircraft was some two 19 years ago that we had made that request and 19 years ago that we had made that request and 19 years ago that we had made that request and 19 years ago that we had made that request and 19 years ago		
21 A. Yeah, and they've been there a lot longer than 22 four years. They've had auto hover — auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: Page 78 1 Q. So the predecessor — not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has very large numbers operating in the world 10 today, and it — so it was equipped with auto 11 today, and it — so it was equipped with auto 12 hover? 13 MR. BURT: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 20 I think your second one came in in 2005, 22 actually? 21 Q. I think your second one came in in 2005, 24 A. Tree first airc one is 2005, 2006, and 2007 24 A. The first one is 2005, 2006, and 2007 25 A. Trake at then — I take it then, your 2006 was one that was fully ready for auto hover? 24 MR. BURT: 25 A. It was all but ready. Again with the radar 26 MR. BURT: 27 A. That's all immeter and some wiring, yes, it was all but ready. 28 Tearle, Q.C.: 4 Q. Tell me what drives the certification process? 4 Q. Tell me what drives the certification to the FAA in the US of this auto hover software because Cougar 4 BEARLE, Q.C.: 4 Q. Tell me what drives the certification to the FAA in the US of this auto hover software because Cougar 4 R. BURT: 4 A. Yes. 16 MR. BURT: 17 Completion on the auto hover was our serial number 61, and that aircraft was some two of the certification is still pending. 20 Lit's taken two years? 21 Q. It's taken two years? 22 Q. It's taken two years? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 25 A. It was all but ready. Again with the radar 26 MR. BURT: 27 A. It was all but ready. Again with the radar 28 MR. BURT: 29 Q. Tell me what drives the certification process? 4 Q. Tell me what drives the certification to the FAA in the U	1	
22 four years. They've had auto hover — auto 23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: Page 78 1 Q. So the predecessor — not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it — so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 20 I think your second one came in in 2005, 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 25 A. It was all but ready. Again with the radar 26 MR. BURT: 27 A. It was all but ready. Again with the radar 28 Latter and some wiring, yes, it was all but ready. 3 EARLE, Q.C.: 4 Q. Tell me what drives the certification process? 5 I mean, is the reason that there is now a certification application to the FAA in the US 7 for this auto hover software because Cougar 8 has said we want that option, and so it's got 9 to be certified? 10 MR. BURT: 11 A. Yes. 12 EARLE, Q.C.: 15 MR. BURT: 16 A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
23 hover has been in Sikorsky products in the 24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: Page 78 Page 78 Page 78 Page 80 1 Q. So the predecessor not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 6 MR. BURT: 6 certification application to the FAA in the US 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 Larle, Q.C.: 20 Larle, Q.C.: 21 Q. I think your second one came in in 2005, actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 MR. BURT: 25 A. It was all but ready. Again with the radar Page 80 A. It was all but ready. Again with the radar A. It was all but ready. Again with the radar Page 80 A. It was all but ready. Again with the radar A. It was all but ready. Again with the radar Page 80 A. It was all but ready. Again with the radar A. It was all but ready. Again with the radar A. It was all but ready. Again with the radar A. It was all but ready. Again with the radar A. It was all but ready. Again with the radar Page 80 A. It was all but ready. Again with the radar	1	
24 Hong Kong Police Force since the 80s. 25 EARLE, Q.C.: Page 78 1 Q. So the predecessor — not quite the different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has to very large numbers operating in the world hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in EARLE, Q.C.: 16 MR. BURT: 17 Corpolity of the suitohover was our serial mumber 61, and that aircraft that we ordered, a completion on the autohover was our serial number 61, and that aircraft was some two years ago that we had made that request and the care in the sure. 17 Logs of the suitohover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification is still pending. 18 MR. BURT: 19 A. Right. 20 It is taken two years? 21 MR. BURT: 22 A. The first one is 2005, 2006, and 2007 24 A. Yes.	1	-
Page 78 Page 78 Q. So the predecessor not quite the predecessor because I know there's 76s and different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of helicopters. MR. BURT: A. That's a fair assessment, yeah. EARLE, Q.C.: Q. It's a 1960s model helicopter which still has today, and it so it was equipped with auto hover? MR. BURT: Nover? MR. BURT: Nover? MR. BURT: A. Correct. A. A. Correct. A. A. Correct. MR. BURT: A. Correct. A. Correct. MR. BURT: A. Correct. MR. BURT: A. Correct. A. A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the correct part actually? A. Think your second one came in in 2005, a actually? MR. BURT: MR.	hover has been in Sikorsky products in the	one that was fully ready for auto hover?
Page 78 1 Q. So the predecessor not quite the predecessor because I know there's 76s and different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of helicopters. 5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has very large numbers operating in the world today, and it so it was equipped with auto hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 2005? 18 MR. BURT: 19 A. Right. 20 I think your second one came in in 2005, actually? 21 A. The first one is 2005, 2006, and 2007 24 A. Yes.	Hong Kong Police Force since the 80s.	24 MR. BURT:
1 Q. So the predecessor not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 20 EARLE, Q.C.: 20 A. Right. 21 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.	25 EARLE, Q.C.:	25 A. It was all but ready. Again with the radar
1 Q. So the predecessor not quite the 2 predecessor because I know there's 76s and 3 different things, but it does seem to be that 4 the 61, the Sikorsky 61, was almost the 737 of 5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 20 EARLE, Q.C.: 20 A. Right. 21 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.	Page	78 Page 80
predecessor because I know there's 76s and different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of helicopters. MR. BURT: A. That's a fair assessment, yeah. EARLE, Q.C.: Q. It's a 1960s model helicopter which still has very large numbers operating in the world today, and it so it was equipped with auto hover? MR. BURT: MR. BUR		
different things, but it does seem to be that the 61, the Sikorsky 61, was almost the 737 of helicopters. MR. BURT: A. That's a fair assessment, yeah. EARLE, Q.C.: Q. If 's a 1960s model helicopter which still has very large numbers operating in the world hover? MR. BURT: A. Correct. MR. BURT: A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and we had made that request and the certification process? MR. BURT: A. The first one is 2005, 2006, and 2007 MR. BURT: A. The first one is 2005, 2006, and 2007 MR. BURT: A. Yes. BARLE, Q.C.: A. Tell me what drives the certification process? I mean, is the reason that there is now a certification application to the FAA in the US A. Certification application to the FAA in the US A. The first airc had we want that option, and so it's got MR. BURT: A. Yes. BARLE, Q.C.: MR. BURT: A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two MR. BURT: A. The first one is 2005, 2006, and 2007 MR. BURT: A. Yes.	1	
the 61, the Sikorsky 61, was almost the 737 of helicopters. helicopters. A. That's a fair assessment, yeah. EARLE, Q.C.: Q. It's a 1960s model helicopter which still has very large numbers operating in the world hover? hover? MR. BURT: A. Correct. MR. BURT: A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification process? MR. BURT: A. Right. Q. I think your second one came in in 2005, a catually? MR. BURT: A. The first one is 2005, 2006, and 2007 A. Yes.	1	
5 helicopters. 6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 I mean, is the reason that there is now a certification application to the FAA in the US 7 for this auto hover software because Cougar 8 has said we want that option, and so it's got 9 to be certified? 10 MR. BURT: 11 A. Yes. 12 EARLE, Q.C.: 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 years ago that we had made that request and 19 LARLE, Q.C.: 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
6 MR. BURT: 7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 10 No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification is still pending. 21 Q. I think your second one came in in 2005, a catually? 22 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
7 A. That's a fair assessment, yeah. 8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 A. Right. 19 Years ago that we had made that request and the certification is still pending. 20 Lit's taken two years? 21 MR. BURT: 22 Q. It's taken two years? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
8 EARLE, Q.C.: 9 Q. It's a 1960s model helicopter which still has 10 very large numbers operating in the world 11 today, and it so it was equipped with auto 12 hover? 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 to be certified? 10 MR. BURT: 11 A. Yes. 11 A. Yes. 12 EARLE, Q.C.: 13 MR. BURT: 14 2005? 15 MR. BURT: 16 A. No, the first aircraft that we ordered, a 17 completion on the auto hover was our serial 18 MR. BURT: 19 years ago that we had made that request and 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
9	•	
very large numbers operating in the world today, and it so it was equipped with auto hover? 12 EARLE, Q.C.: 13 MR. BURT: 13 Q. Or has it been hanging in the works since 14 A. Correct. 14 2005? 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 A. Right. 20 EARLE, Q.C.: 20 I think your second one came in in 2005, 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 10 MR. BURT: 11 A. Yes. 12 EARLE, Q.C.: 13 MR. BURT: 14 A. Yes. 15 MR. BURT: 16 A. No, the first aircraft that we ordered, a 17 completion on the auto hover was our serial 18 number 61, and that aircraft was some two 19 years ago that we had made that request and 20 the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.		_
today, and it so it was equipped with auto hover? 12	_	
hover? 12 EARLE, Q.C.: 13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 A. Right. 19 EARLE, Q.C.: 10 A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification is still pending. 20 LI think your second one came in in 2005, actually? 21 Q. I think your second one in 2005, actually? 22 Q. It's taken two years? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.	1	
13 MR. BURT: 14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 A. Right. 20 EARLE, Q.C.: 20 I think your second one came in in 2005, 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 21 Q. Vor has it been hanging in the works since 14 2005? 15 MR. BURT: 16 A. No, the first aircraft that we ordered, a 17 completion on the auto hover was our serial 18 number 61, and that aircraft was some two 19 years ago that we had made that request and 20 the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.	1	
14 A. Correct. 15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 A. Right. 20 EARLE, Q.C.: 20 I think your second one came in in 2005, 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 21 I think your second one in the auto hover was our serial number 61, and that aircraft was some two the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.		
15 EARLE, Q.C.: 16 Q. Now the S-92, you had them come in service in 17 2005? 18 MR. BURT: 19 A. Right. 19 A. Right. 19 EARLE, Q.C.: 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, actually? 22 Q. It's taken two years? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 25 MR. BURT: 26 A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification is still pending. 20 It's taken two years? 21 MR. BURT: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.		
Q. Now the S-92, you had them come in service in 2005? Real Right. Q. I think your second one came in in 2005, actually? A. The first one is 2005, 2006, and 2007 A. No, the first aircraft that we ordered, a completion on the auto hover was our serial number 61, and that aircraft was some two years ago that we had made that request and the certification is still pending. 20		
17 completion on the auto hover was our serial 18 MR. BURT: 18 number 61, and that aircraft was some two 19 A. Right. 19 years ago that we had made that request and 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 26 completion on the auto hover was our serial 18 number 61, and that aircraft was some two 20 the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.		
18 MR. BURT: 19 A. Right. 19 years ago that we had made that request and 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 21 number 61, and that aircraft was some two 29 years ago that we had made that request and 20 the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.	·	
19 A. Right. 20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 29 years ago that we had made that request and 20 the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.		-
20 EARLE, Q.C.: 21 Q. I think your second one came in in 2005, 22 actually? 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 20 the certification is still pending. 21 EARLE, Q.C.: 22 Q. It's taken two years? 23 MR. BURT: 24 A. Yes.		
21 Q. I think your second one came in in 2005, 21 EARLE, Q.C.: 22 actually? 22 Q. It's taken two years? 23 MR. BURT: 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
22 actually? 22 Q. It's taken two years? 23 MR. BURT: 23 MR. BURT: 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.		
23 MR. BURT: 23 MR. BURT: 23 MR. BURT: 24 A. The first one is 2005, 2006, and 2007 24 A. Yes.	•	
24 A. The first one is 2005, 2006, and 2007 24 A. Yes.	22 actually?	22 Q. It's taken two years?
	23 MR. BURT:	23 MR. BURT:
25 respectively. 25 EARLE, Q.C.:	1 2007 2006 1 2007	1
	24 A. The first one is 2005, 2006, and 2007	24 A. Yes.

February 4, 2010 Mult	1-Page Offshore Helicopter Safety Inquiry
Page 81	Page 83
1 Q. The question is, if you had on your first	1 A. There is no external fuel tank option.
2 aircraft decided we want an auto hover	2 EARLE, Q.C.:
3 capacity, would, in fact, the certification	3 Q. You're quite confident in that?
4 process have started two years earlier?	4 MR. BURT:
5 MR. BURT:	5 A. I'm very confident, absolutely.
6 A. We would have hoped it would have started	6 EARLE, Q.C.:
7 immediately when we put our order in before	7 Q. So that's another one of these things that's
8 2005, and we would hope it would have been	8 out there about this aircraft that's not
9 delivered when we got the aircraft, but we	9 correct?
hoped that for serial number 61 and we're two	10 MR. BURT:
11 years later getting it, so it's	11 A. I could posit that there's a wide variant of
12 EARLE, Q.C.:	military proposals on the table, and in those
Q. What you're telling us that the application	variants you'll see in a military
for certification to the FAA	configuration some contracts that Sikorsky is
15 MR. BURT:	bidding on there might be some conceptual
16 A. Right.	drawings that like the Black Hawk, you would
17 EARLE, Q.C.:	have a winglet on either side and hung
Q. Did not start until two years ago?	underneath that would be the torpedo type
19 MR. BURT:	tanks and, you know, from a military
20 A. That's correct.	20 configuration there might be some conceptual
21 EARLE, Q.C.:	21 drawings.
Q. But it could have started earlier?	22 EARLE, Q.C.:
23 MR. BURT:	23 Q. Did you explore with Sikorsky the option of
24 A. Absolutely.	24 external auxiliary tanks?
25 EARLE, Q.C.:	25 MR. BURT:
Page 82	Page 84
Page 82 1 Q. Okay. Now I want to ask you about some	Page 84 1 A. We have talked to them about it, and again
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me	Page 84 1 A. We have talked to them about it, and again
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct?	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT:	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct.	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application.
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.:	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.:
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue.
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks?	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT:
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT:	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay.
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.:
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor?
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT:
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to 16 what we see as maximizing the interior of the	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT: 16 A. That's correct.
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to 16 what we see as maximizing the interior of the 17 aircraft.	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT: 16 A. That's correct. 17 EARLE, Q.C.:
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to 16 what we see as maximizing the interior of the 17 aircraft. 18 EARLE, Q.C.:	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT: 16 A. That's correct. 17 EARLE, Q.C.: 18 Q. How far is the Terra Nova FPSO?
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to 16 what we see as maximizing the interior of the 17 aircraft. 18 EARLE, Q.C.: 19 Q. Are you aware of an option for external	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT: 16 A. That's correct. 17 EARLE, Q.C.: 18 Q. How far is the Terra Nova FPSO? 19 MR. BURT:
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to 16 what we see as maximizing the interior of the 17 aircraft. 18 EARLE, Q.C.: 19 Q. Are you aware of an option for external 20 auxiliary fuel tanks, each of 871 litres?	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT: 16 A. That's correct. 17 EARLE, Q.C.: 18 Q. How far is the Terra Nova FPSO? 19 MR. BURT: 20 A. 186 nautical miles.
Page 82 1 Q. Okay. Now I want to ask you about some 2 questions about the tanks. It appears to me 3 that what you've done is you've gone with your 4 own custom auxiliary tank, is that correct? 5 MR. BURT: 6 A. That's correct. 7 EARLE, Q.C.: 8 Q. Why would you not have just gone with 9 Sikorsky's own tanks? 10 MR. BURT: 11 A. The tanks that Sikorsky have are not designed 12 for a passenger aircraft, they're primarily 13 designed for search the rescue. The tanks are 14 the cover up windows, they take up a 15 greater space, and they're not conducive to 16 what we see as maximizing the interior of the 17 aircraft. 18 EARLE, Q.C.: 19 Q. Are you aware of an option for external 20 auxiliary fuel tanks, each of 871 litres? 21 MR. BURT:	Page 84 1 A. We have talked to them about it, and again 2 that was again a conversation, it wasn't an 3 official one, it was one that would be, well, 4 you know, we might explore that down the road 5 for a military application, but certainly not 6 for a civilian application. 7 EARLE, Q.C.: 8 Q. Let's deal with the distance issue. 9 MR. BURT: 10 A. Okay. 11 EARLE, Q.C.: 12 Q. You say that you first looked at the S-92 13 essentially because of a demand for another 14 aircraft driven by Petro Canada, now Suncor? 15 MR. BURT: 16 A. That's correct. 17 EARLE, Q.C.: 18 Q. How far is the Terra Nova FPSO? 19 MR. BURT: 20 A. 186 nautical miles. 21 EARLE, Q.C.:

25 MR. BURT:

25 MR. BURT:

February 4, 2010	Multi-Page TM	Offshore Helicopter Safety Inquiry
Pag	ge 85	Page 87
1 A. Zero wind, in our application. It was about	1 yo	ou generally operate with?
2 200 nautical miles, zero wind, return back to	2 MR. BUF	RT:
3 St. John's with 30 minutes.	3 A. T	he payload in terms of what location?
4 EARLE, Q.C.:	4 EARLE,	Q.C.:
5 Q. Why would you have bought an aircraft that y	rou 5 Q. W	Vell, as I understand it, the thing stripped
6 had to set to and have a custom tank designed	6 do	own and empty is about 17,000 pounds?
7 for it?	7 MR. BUF	RT:
8 MR. BURT:	8 A. 17	7,300.
9 A. Based upon the marketplace at that time, what	t 9 EARLE,	Q.C.:
was available in the latest design standard	10 Q. Its	s maximum gross weight is somewhere around
aircraft and aircraft in general, the S-92	11 26	5,000?
presented the greatest basic fuel range	12 MR. BUF	RT:
aircraft, and a cabin that could we used to	13 A. R	ight.
configure additional fuel tanks. St. John's,	14 EARLE,	Q.C.:
we here on the east coast of Canada, own the	15 Q. A	nd so Sikorsky says you can have 9,000 pound
distinction of flying to some of the most	16 pa	ayload?
distant locations in the world, and that's a	17 MR. BUF	RT:
reality of where we operate, not only to	18 A. R	ight.
production areas, but also exploration, and	19 EARLE,	Q.C.:
20 that's a reality. So right from the beginning	20 Q. A	s you indicated, that is to certain wind,
of ordering this aircraft as part of the	21 te	mperature conditions?
commercial procurement of this aircraft, it	22 MR. BUF	T:
was agreed with our customer, Petro Canada	, 23 A. U	h-hm.
that we would design and implement an	24 EARLE,	Q.C.:
25 auxiliary fuel tank for the aircraft.	25 Q. A	nd that sort of thing. What's the range
Pag	ge 86	Page 88
1 EARLE, Q.C.:	1 pa	ayload that you're looking for?
2 Q. Uh-hm. Was the auxiliary fuel tank put in	2 MR. BUF	RT:
3 service when the aircraft went in service or	3 A. A	gain it's specific to where we're going. I'm
4 was it later?	4 no	ot trying to avoid your question, but if
5 MR. BURT:	5 w	e're going to Hibernia, for example, we would
6 A. I'm not sure about the exact date, to be		retty well have an ability to carry 19
7 honest with you, when we did get the auxiliary	y 7 pa	assengers to Hibernia. As soon as we went to
8 fuel tank certified and implemented, but it	8 Te	erra Nova, that number would vary probably
9 was certainly shortly thereafter, and I could		round 17 passengers, and a we went to Husky,
get that date for you.		at number would come back to 15/16.
11 EARLE, Q.C.:	11 EARLE,	Q.C.:
Q. Because people tell me they've flown on the S		That does it do to your need for the auxiliary
92 to the offshore installations without the		el tank?
14 auxiliary fuel tanks?	14 MR. BUF	RT:
15 MR. BURT:	15 A. A	t some point, there will not be sufficient
16 A. Absolutely, and that was one of the design		el in the basic fuel tanks to never mind
features of the tank, understanding that as		at people in there, but to actually complete
soon as we put it in, we'll lose 300 pounds	_	e trip because of winds and because of
payload. We spent a great deal of time		member when we go out, we don't always have
	1	7 1 1 1 TC 1

21

22

24

25

23 EARLE, Q.C.:

St. John's as an alternate. If we have to use

just need the capacity to get that trip done.

Q. I caution you to wait until the end of my

questions, Mr. Burt.

an alternate such as Long Pond or Gander, we

20

21

22

23

24 EARLE, Q.C.:

engineering and money to make sure that we had

some flexibility if we needed to maximize our

payload and we did not need fuel, to take the

tank out and put seats in and fly passengers.

Q. Speaking of payload, what is the payload that

February 4, 2010 Mu	Iti-Page M Offshore Helicopter Safety Inquiry
Page 8	Page 91
1 MR. BURT:	1 MR. BURT:
2 A. I thought that was part of your question.	2 A. Should we need more fuel, Transport Canada has
3 EARLE, Q.C.:	an official category called contingency fuel,
4 Q. No, no, what does it do to your fuel tank or	4 so should the pilots see that he's not
5 your fuel consumption if you say that the	5 confident that he can make a straight line, he
6 in terms of the current three installations,	6 might have to deviate around. He may also
your current customers, the people who are	7 suggest that the weather at the location is
8 chartering the aircraft, if you go a 10	8 going to take a full approach, or in some
9 passenger load	9 cases take fuel for two approaches. He make
10 MR. BURT:	10 take fuel for loitering time, to wait for the
11 A. Right.	conditions to improve. Holding fuel, I think
12 EARLE, Q.C.:	it's referred to in the airline business. So
13 Q. I mean, do you need the auxiliary fuel tank if	that also affects the fuel he'd need to take.
you go with a ten passenger load?	14 EARLE, Q.C.:
15 MR. BURT:	15 Q. Now you've talked about travel to the Flemish
16 A. It all depends. First of all, it doesn't	16 Pass.
affect fuel consumption at all, to answer your	17 MR. BURT:
question, and number two, if we had ten	18 A. Yes, sir.
passengers on board, we still may need the	19 EARLE, Q.C.:
tank. We may need the tank if we go offshore	20 Q. And as I understand it, that is a circumstance
and the winds are high. Am I still answering	21 in which you will require two auxiliary fuel
your question now? We may need the tank if we	22 tanks in the aircraft?
lose an alternate airport on route, and we	23 MR. BURT:
need to carry the additional fuel to complete	24 A. It's most likely that would require two tanks.
25 that flight. For example, if we lose Long	25 EARLE, Q.C.:
Page 9	
Pond what I mean by lose, the weather drops	1 Q. And they would be two tanks of the same nature
2 and we Gander, then that tank will have to go	as the one that we're seeing now?
3 in the aircraft to complete the trip.	3 MR. BURT:
4 EARLE, Q.C.:	4 A. That's correct, they're actually identical
5 Q. So am I to take it from that, that passenger	5 tanks.
6 payload, weight payload does not have a	6 EARLE, Q.C.:
7 significant impact on fuel consumption as	7 Q. So what would you anticipate doing with those
8 compared to wind conditions?	tanks in terms of placement? Would you intend
9 MR. BURT:	9 to have one of those tanks inboard with
10 A. That's a correct statement, yes.	passengers as the tank earlier was? 11 MR. BURT:
11 EARLE, Q.C.: 12 Q. And if you talk in terms of the need for the	12 A. One tank would have to be placed on the left
12 Q. And if you talk in terms of the need for the alternate aircraft, how does the alternate	position, and there's no flexibility where it
landing site, how does that fit in with the 30	13 position, and there's no flexibility where it 14 goes. One would be placed on the right
15 minute reserve?	position. The right position takes a row of
16 MR. BURT:	single seats and displaces a row of single
17 A. A 30 minute reserve is a hard line, it doesn't	seats. I think it's three seats. The left
change no matter where we end up at the end of	position, it would displace an equal amount of
our flight.	three seats on the outboard, and then leaving
20 EARLE, Q.C.:	20 a row next to the tank.
21 Q. So you can't eat into your 30 minute reserve-	21 EARLE, Q.C.:
22 MR. BURT:	22 Q. That's my question. So you're anticipating
23 A. No.	23 replicating the problem that the operators
24 EARLE, Q.C.:	24 asked you to eliminate?
25 Q. To go to Long Pond?	25 MR. BURT:

	Tage Onshore Hencopter Surety Inquiry
Page 93	Page 95
1 A. We're putting the tank in a situation where	1 EARLE, Q.C.:
2 there may or may not be seats on the side of	2 Q. What happens if you have a group of
it, and people may or may not sit on those	passengers, all of whom feel uncomfortable?
4 seats.	4 Do you reduce your load?
5 EARLE, Q.C.:	5 MR. BURT:
6 Q. So are you telling us you haven't decided	6 A. Could I ask Mr. Williams to speak to this as
7 that? I mean	7 well?
8 MR. BURT:	8 MR. WILLIAMS:
9 A. Well, we were asked to move the tank to the	9 A. I want to talk to that one because when we do
right hand side and completely cooperated and	go to the Flemish Pass, understand that the
obligated to move the tank to the right side.	particular customer we will be going to the
The aircraft is certified, absolutely	Flemish Pass will be offered the configuration
certified with those tanks in either location,	with the tank on either side or both sides,
or both locations.	keeping in mind that all are deemed certified
15 EARLE, Q.C.:	and safe. It's the operator's decision not to
Q. We know that, Mr. Burt, but we also know that	use the seating that's currently by the side
one of the things that has been changed is	of the tank now. We will configure an
moving of the tank to the starboard side?	aircraft and offer it to the operator, and the
19 MR. BURT:	particular operator, ABC Company who's going
20 A. Right, right.	to the Flemish Pass, can decide not to avail
21 EARLE, Q.C.:	of these seats, which the operators have done
22 Q. So that there are no passengers inboard of	here. They've decided not to use those seats
23 that tank?	23 and put the tank to the other side.
24 MR. BURT:	
	24 EARLE, Q.C.: 25 Q. But, you see, Mr. Williams, I think it would
25 A. Right. The concern was, if I could, was that	23 Q. But, you see, Mr. Williams, Tullink it would
Page 94	Page 96
Page 94 the tank on the left side with the double row	Page 96 1 be my position to the Commissioner that the
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the	Page 96 be my position to the Commissioner that the operator should be told, don't put your
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the	Page 96 be my position to the Commissioner that the operator should be told, don't put your
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window.	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.:	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.: Q. Exactly, that's the concern.	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT:	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation.
Page 94 the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.: Q. Exactly, that's the concern. MR. BURT: A. I understand that.	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS:
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.:	Page 96 1 be my position to the Commissioner that the 2 operator should be told, don't put your 3 employees in a position where they've got to 4 say whether they're comfortable sitting 5 inboard of a tank or not, that they shouldn't 6 have any less of a situation than people going 7 to the Jean D'Arc installation. 8 MR. WILLIAMS: 9 A. But there's been no decision that those seats
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling	Page 96 1 be my position to the Commissioner that the 2 operator should be told, don't put your 3 employees in a position where they've got to 4 say whether they're comfortable sitting 5 inboard of a tank or not, that they shouldn't 6 have any less of a situation than people going 7 to the Jean D'Arc installation. 8 MR. WILLIAMS: 9 A. But there's been no decision that those seats 10 are unsafe. It's opinion. That tank is
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress.
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in	Page 96 1 be my position to the Commissioner that the 2 operator should be told, don't put your 3 employees in a position where they've got to 4 say whether they're comfortable sitting 5 inboard of a tank or not, that they shouldn't 6 have any less of a situation than people going 7 to the Jean D'Arc installation. 8 MR. WILLIAMS: 9 A. But there's been no decision that those seats 10 are unsafe. It's opinion. That tank is 11 certified and the seats where they are meet 12 all the requirements for egress. 13 EARLE, Q.C.:
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in 14 fact, go out there after it finishes its work	Page 96 be my position to the Commissioner that the operator should be told, don't put your multiple employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats ure unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Very impressed with the opinion, Mr. Williams.
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in 14 fact, go out there after it finishes its work 15 down there, and what you're telling me is that	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. BARLE, Q.C.: Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in 14 fact, go out there after it finishes its work 15 down there, and what you're telling me is that 16 you don't know at this point in time whether	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in 14 fact, go out there after it finishes its work 15 down there, and what you're telling me is that 16 you don't know at this point in time whether 17 people will have to sit inboard of a tank on	Page 96 be my position to the Commissioner that the operator should be told, don't put your multiple employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in 14 fact, go out there after it finishes its work 15 down there, and what you're telling me is that 16 you don't know at this point in time whether 17 people will have to sit inboard of a tank on 18 flights to an installation on the Flemish Pass	Page 96 be my position to the Commissioner that the operator should be told, don't put your multiple employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on July 25th, 2006, we had an emergency landing
Page 94 1 the tank on the left side with the double row 2 of seats, that some individuals who sat in the 3 seat next to the tank couldn't reach the push 4 out window. 5 EARLE, Q.C.: 6 Q. Exactly, that's the concern. 7 MR. BURT: 8 A. I understand that. 9 EARLE, Q.C.: 10 Q. And, you know, while there's nobody drilling 11 in the Flemish Pass at the moment, there's 12 considerable speculation that the drill ship 13 that's down in the Laurentian Channel may, in 14 fact, go out there after it finishes its work 15 down there, and what you're telling me is that 16 you don't know at this point in time whether 17 people will have to sit inboard of a tank on 18 flights to an installation on the Flemish Pass 19 if drilling resumes out there? 20 MR. BURT:	Page 96 be my position to the Commissioner that the operator should be told, don't put your multiple employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on July 25th, 2006, we had an emergency landing of a helicopter in St. John's. Do you recall
the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.: Q. Exactly, that's the concern. MR. BURT: A. I understand that. EARLE, Q.C.: Q. And, you know, while there's nobody drilling in the Flemish Pass at the moment, there's considerable speculation that the drill ship that's down in the Laurentian Channel may, in fact, go out there after it finishes its work down there, and what you're telling me is that you don't know at this point in time whether people will have to sit inboard of a tank on flights to an installation on the Flemish Pass if drilling resumes out there?	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on July 25th, 2006, we had an emergency landing of a helicopter in St. John's. Do you recall that incident?
the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.: Q. Exactly, that's the concern. MR. BURT: A. I understand that. EARLE, Q.C.: Q. And, you know, while there's nobody drilling in the Flemish Pass at the moment, there's considerable speculation that the drill ship that's down in the Laurentian Channel may, in fact, go out there after it finishes its work down there, and what you're telling me is that you don't know at this point in time whether people will have to sit inboard of a tank on flights to an installation on the Flemish Pass if drilling resumes out there? MR. BURT: MR. BURT: A. The way that the way that we have handled that with the customers is that we have	Page 96 be my position to the Commissioner that the poperator should be told, don't put your memployees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on July 25th, 2006, we had an emergency landing of a helicopter in St. John's. Do you recall that incident? MR. BURT: A. I don't specifically recall that incident.
the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.: Q. Exactly, that's the concern. MR. BURT: A. I understand that. EARLE, Q.C.: Q. And, you know, while there's nobody drilling in the Flemish Pass at the moment, there's considerable speculation that the drill ship that's down in the Laurentian Channel may, in fact, go out there after it finishes its work down there, and what you're telling me is that you don't know at this point in time whether people will have to sit inboard of a tank on flights to an installation on the Flemish Pass if drilling resumes out there? MR. BURT: A. The way that the way that we have handled that with the customers is that we have assigned seating, and should somebody not feel	Page 96 be my position to the Commissioner that the operator should be told, don't put your employees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats are unsafe. It's opinion. That tank is certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on July 25th, 2006, we had an emergency landing of a helicopter in St. John's. Do you recall that incident? MR. BURT: MR. BURT: EARLE, Q.C.: A. I don't specifically recall that incident.
the tank on the left side with the double row of seats, that some individuals who sat in the seat next to the tank couldn't reach the push out window. EARLE, Q.C.: Q. Exactly, that's the concern. MR. BURT: A. I understand that. EARLE, Q.C.: Q. And, you know, while there's nobody drilling in the Flemish Pass at the moment, there's considerable speculation that the drill ship that's down in the Laurentian Channel may, in fact, go out there after it finishes its work down there, and what you're telling me is that you don't know at this point in time whether people will have to sit inboard of a tank on flights to an installation on the Flemish Pass if drilling resumes out there? MR. BURT: MR. BURT: A. The way that the way that we have handled that with the customers is that we have	Page 96 be my position to the Commissioner that the poperator should be told, don't put your memployees in a position where they've got to say whether they're comfortable sitting inboard of a tank or not, that they shouldn't have any less of a situation than people going to the Jean D'Arc installation. MR. WILLIAMS: A. But there's been no decision that those seats certified and the seats where they are meet all the requirements for egress. EARLE, Q.C.: Q. Very impressed with the opinion, Mr. Williams. Now the issue of customer notification, I want to draw your attention to what I think would be by anyone's standard a serious incident, on July 25th, 2006, we had an emergency landing of a helicopter in St. John's. Do you recall that incident? MR. BURT: A. I don't specifically recall that incident.

February 4, 2010 Mult	i-Page Offshore Helicopter Safety Inquiry
Page 97	Page 99
power, the aircraft returned to St. John's,	other seats to adjust the balance of the
2 made a landing, and there was a request from	2 aircraft, and I would like to know how you
the Occupational Health and Safety Committee	3 handled the response in respect of that
on the Hibernia Platform for explanation as to	4 incident, and also did you file with the
5 what happened on July 31st, 2006. Ring any	5 Transportation Safety Board an incident report
6 bells with any of you?	6 in respect of that matter?
7 MR. BURT:	7 MR. BURT:
8 A. I just don't have the reference in front of	8 A. Are you specifically asking about the events
9 me, sir.	9 of the incident, or just how we handled it?
10 EARLE, Q.C.:	10 EARLE, Q.C.:
11 Q. That's fine, but what I would like you to do	11 Q. I would like to know, (a) did you file an
12 MR. BURT:	incident report with Transportation Safety
13 A. Sure.	Board, and (b) what notification in respect of
14 EARLE, Q.C.:	that incident you provided to the operator and
15 Q. Is to check and provide the Commissioner with	15 when?
the information that was passed on to the	16 MR. BURT:
operator about that, and the date when it was	17 A. I don't believe we filed with the TSB on that
passed on, because I'll tell you what I've	event, and as regards to the reporting to
been told and what the Commissioner will hear,	19 Hibernia, I'll ask Mr. Williams if he could
is that that is a drastically different time	20 recall, if you wouldn't mind.
frame than your 24 hours, that it took until	21 MR. WILLIAMS:
November before the response made it to the	22 A. I'm not sure about the actual reporting on
23 members of the Occupational Health and Safety	23 that, but I'm sure when this item was brought
Committee. Mr. Whalen, you're looking like	to our attention, there would have been a
you want me to repeat the time?	process that we would have went through, as I
Page 98	-
1 WHALEN, Q.C.:	described the other day, an event form. I'd
2 Q. No, no, if you could just be precise on the	2 have to get that information.
3 undertaking.	3 EARLE, Q.C.:
4 EARLE, Q.C.:	4 Q. Could you provide us with a recap by way of
5 Q. I would request an undertaking that you would	5 information, provide to the Commissioner the
6 supply any and all responses in respect of	6 information of what you did on that.
that flight given to the operator with the	7 MR. WILLIAMS:
time of those responses.	8 A. Yeah.
9 WHALEN, Q.C.:	9 EARLE, Q.C.:
10 Q. July 25th, 2006?	10 Q. There's another incident
11 EARLE, Q.C.:	11 MS. FAGAN:
12 Q. July 25th, 2006. I'd like to go to some more	12 Q. Just so we have it, an undertaking to provide
things that are a bit more current. What I'm	the notification to the operator and when?
looking at here is the communications for a	14 EARLE, Q.C.:
couple of instances in October, one of which	15 Q. Yes. On the same flight number, October 2nd,
16 I'm sure you've heard about because I asked	16 2009, and the information I have is that just
17 Mr. Sacuta about it, and it seems that people	after take-off from Hibernia, the cabin door
take note, and that was July sorry, August	opened completely. A passenger advised the
19 11th sorry, not August, October 11th, 2009,	pilots of the situation. The pilots
20 Flight 531, as I understand it, going to the	20 immediately landed, had the door closed, and
21 Hibernia Platform, when it went to land, the	21 departed again. Again I would like to know was
22 aircraft was in a tail-low attitude and the	that incident reported to the Transportation
passengers had to be asked to move within the	23 Safety Board?
1	
174 SIFCESTE WHICH I TAKE IT WALLE INVALVE	· ·
24 aircraft, which I take it would involve 25 getting out of their seat belts, moving to	24 MR. WILLIAMS: 25 A. No.

February 4, 2010	Multi-Pag	ge Offshore Helicopter Safety Inquiry
	Page 101	Page 103
1 EARLE, Q.C.:	1	the Transportation Safety Board, and it
2 Q. Why not?	2	involves Cougar helicopters CGVCH, which is
3 MR. WILLIAMS:	3	one of your Halifax based units.
4 A. I don't have that answer right now.	4 M	IR. BURT:
5 EARLE, Q.C.:	5	A. Right.
6 Q. Pardon?	6 E	ARLE, Q.C.:
7 MR. WILLIAMS:	7	Q. And I'll just read the Transportation Safety
8 A. I don't have that answer.	8	Board notation, "A Cougar Helicopter Sikorsky
9 EARLE, Q.C.:	9	S-92, registration CGVCH, was on route from
10 Q. I would like to know that answer.	10	Halifax to the Rowan Gorilla III oil
11 MR. WILLIAMS:	11	production platform when the crew declared a
12 A. Understand.	12	pan pan pan, due to illumination of the main
13 EARLE, Q.C.:	13	gearbox chip detector indicator. The aircraft
Q. And what report was made on that incid		returned to Halifax and landed safely without
the operator, and also I'd like to know w		further incident. Maintenance inspection
- want you to tell the Commissioner wha		revealed a pin shaped foreign metal object on
internal follow up on that was.	17	the MGB chip detector plug. The MGB had been
18 MR. BURT:	18	recently overhauled. The operator will be
19 A. Yes, and we have a report on that.	19	replacing the MGB", that being the main
20 MS. FAGAN:	20	gearbox, "before returning the aircraft to
21 Q. So that we got it clear, an undertaking as		service". The question for you is what
22 why the cabin door incident of October		information would you have given the operators
23 2009, was not reported to TSB, the report		in Newfoundland about that event?
the operator and when, and the internal r		IR. BURT:
25 or follow up?	25	A. I know that the obviously, like you said,
-	Page 102	Page 104
1 WHALEN, Q.C.:	1	the TSB was notified, and the customer in
2 Q. Three, four, and five undertakings.	2	Halifax was immediately notified, and I'd have
3 MS. FAGAN:	3	to ask Mr. Williams, as the base manager here,
4 Q. With the other two; three, four, and five		what was if that was translated here.
5 Five undertakings.		IR. WILLIAMS:
6 EARLE, Q.C.:	6	A. Absolutely, that incident would have been
7 Q. Yes. Gentlemen, I think it was around		totally transparent with our operators here.
8 22nd of January, you ascertained that the		What we've been doing, and we've been doing
9 were cracks or a crack in the mounting for		for some time, anything pertaining to any of
a gearbox on CQCH, and you did we kr		our fleet that would affect, or the
did notify the operator in respect of this	-	information they want to know, they get
and e-mails went out to the employees		information vice versa, as I would if an
everything, and most of them got it bef		incident happened here today or an event on
they heard it on the radio, but the question		any of our three operators here, our customer
have for you, did you report that to th		in Halifax would be aware of it as well.
16 Transportation Safety Board?		ARLE, Q.C.:
17 MR. BURT:	17	Q. So would you have communicated that
18 A. I'd have to check on that.	18	information?
19 EARLE, Q.C.:		IR. WILLIAMS:
20 Q. Can we have an undertaking on that.	20	A. Yes, myself or my operations manager.
21 MS. FAGAN:		ARLE, Q.C.:
122 O. S1X.	2.2.	O. In this particular instance, did you
22 Q. Six. 23 EARLE, Q.C.:	22 23	Q. In this particular instance, did you communicate the information?
23 EARLE, Q.C.:	23	Q. In this particular instance, did you communicate the information? IR. WILLIAMS:
	23 24 M	communicate the information?

Page 105 Page 107	rebruary 4, 2010	Mulu-F	-Page Offshore Hencopter Safety Inquiry
2 Q. And to whom did you communicate it? 3 MR. WILLIAMS: 4 A. The logistics the single point of contact that I mentioned yesterday. We have a single point of contact with each operator, the same thing as I have in Nova Scotia. That's my 8 liaison into the oil companies. 9 FARLE, Q.C.: 10 Q. And that's somebody in logistics? 11 MR. WILLIAMS: 11 A. Correct. 12 A. Correct. 13 FARLE, Q.C.: 14 Q. Now you do not go to the HSR advisor on that is issue? 16 MR. WILLIAMS: 17 A. No, I don't. I report all incidents directly is to the logistics individuals for each respective company. 19 FARLE, Q.C.: 21 Q. And just for the record, I think most of us you understand objectics does, but what do you understand dopistics does, but what do you munderstand objectics does, but what do you would want for the properties of the contract sponsor, these are the ones that monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that menitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 3 Q. I know your training is audited, our ground 9 school training is audited and approved, 11 and Transport Canada aparticipates in all elements of that on an occasional basis. 13 LARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 15 MR. BURT: 16 A. Transport Canada oversight and Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport Canada audit? 16 A. Transport Canada oversight and Transport Canada audit? 17 Canada audit. 18 MR. WILLIAMS: 19 La FARIE, Q.C.: 20 Q. Mr. William Parsons made a presentation to the 100 may 1 and 1 monitor over performance of our duties in 3 monitor over performance of our duties in 3 monitor over performance of our duties in 4 monitor over performance of our duties in 5 monitor over performance of our duties in 5 monitor over performance of our duties in 6 monitor over performance o		Page 105	Page 107
3 MR. WILLIAMS: 4 A. The logistics the single point of contact 5 that I mentioned yesterday. We have a single 6 point of contact with each operator, the same 7 thing as I have in Nova Scotia. That's my 8 liaison into the oil companies. 9 FARILF, Q.C.: 11 MR. WILLIAMS: 12 A. Correct. 13 FARILF, Q.C.: 14 Q. Now you do not go to the HSE advisor on that 15 issue? 16 MR. WILLIAMS: 17 A. No. J don't. I report all incidents directly 18 to the logistics individuals for each 19 respective company. 20 FARILF, Q.C.: 21 Q. And just for the record, I think most of us 21 understand what logistics does, but what do 23 you understand logistics does, but what do 24 you understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARILE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training manual is audited, our ground 9 school training is audited and approved, our 10 simulator training is audited and approved, our 11 and Transport Canada participates in all 2 elements of that on an occasional basis. 13 EARILE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 MR. WILLIAMS: 27 A. I think the strange enough way to answer that 18 is yes, because it's very, very unpredictable. 28 think the strange enough way to answer that 19 The forecasting of the offshore destination and use 29 an offshore alternate, an additional rig. 29 there are a addit of Maxico that do 29 think those are all my questions for you, 20 flight plan to an offshore destination with 29 the area audit of your training inself? 20 flight plan to an offshore destination with 21 and Transport Canada audit? 22 think the strange enough way to answer that 23 and salways been a challenge. In fact, 24 the ARILE, Q.C.: 25 Q. I know your training is audited, our ground 26 flight plan to an offshore destination with 27 think the strange enough way to answer that 28 the analysis of the erecord, I think most	1 EARLE, Q.C.:		helipad on it offshore, so as to provide an
4 A. The logistics – the single point of contact that I mentioned yesterday. We have a single point of contact with each operator, the same thing as I have in Nova Scotia. That's my 8 laison into the oil companies. 9 EARLE, Q.C.: 10 Q. And that's somebody in logistics? 11 A. Correct. 12 A. Correct. 13 EARLE, Q.C.: 14 Q. Now you do not go to the HSE advisor on that is issue? 15 M.R. WILIJAMS: 16 N.R. WILIJAMS: 17 A. No, I don't. I report all incidents directly is to the logistics individuals for each in respective company. 20 EARLE, Q.C.: 21 Q. And just for the record, I think most of us you understand what logistics does, but what do you understand logistics do? 22 M.R. WILLIAMS: 23 A. I understand logistics is that they are a 24 M.R. WILLIAMS: 25 A. I understand logistics of or outlets in a respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training is audited, but is there an audit of your training is audited, but is there are audit of your training is audited and approved, our is minutator training is audited and approved, our is minutator training is audited, our ground school training is audited and approved, our is maltaror training is audited and a	2 Q. And to whom did you communicate it?	2	offshore alternate landing site.
that I mentioned yesterday. We have a single point of contact with each operator, the same thing as I have in Nova Scotia. That's my liaison into the oil companies. 9 ARAILE, Q.C: 10 Q. And that's somebody in logistics? 11 MR WILLIAMS: 12 A. Corcet. 13 EARLE, Q.C: 14 Q. Now you do not go to the HSE advisor on that is issue? 16 MR, WILLIAMS: 17 A. No, I don't. I report all incidents directly is to the logistics individuals for each in respective company. 20 LARLE, Q.C: 21 Q. And just for the record, I think most of us understand what logistics does, but what do 23 you understand logistics does, but what do 23 you understand logistics is that they are a The contract sponsor, these are the ones that monitor our performance of our duties in respect for each individual oil company. 4 EARLE, Q.C: 4 EARLE, Q.C: 5 Q. I know your training is audited, our ground school training is audited and approved, Our simulator training is audited and approved. Our simulator training is audited	3 MR. WILLIAMS:	3	3 MR. BURT:
6 point of contact with each operator, the same thing as I have in Nova Scotia. That's my 8 liaison into the oil companies. 8 points in between, sufficiently variable that 9 you would be able to avail of such an all the support of the MR. WILLIAMS: 10 or The State of the Individual of the Individual of the Individual of the Contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 1 A Q. Now you the raining is audited, but is 6 there an audit of your training is audited and approved, 1 and Transport Canada audit? 1 SEARLE, Q.C.: 1 Q. So it's a Transport Canada oversight and Transport Individual oil company. 4 EARLE, Q.C.: 1 Q. So it's a Transport Canada oversight and Transport Individual oil company. 4 EARLE, Q.C.: 1 Q. So it's a Transport Canada oversight and Transport Individual oil company. 4 EARLE, Q.C.: 1 Q. So it's a Transport Canada oversight and Transport Individual oil company. 4 EARLE, Q.C.: 1 Q. So it's a Transport Canada oversight and Transport Individual oil company. 4 EARLE, Q.C.: 1 Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 1 A Q. So it's a Transport Canada audit? 1 SEARLE, Q.C.: 2 Q. Mr. William Parsons made a presentation to the 1 Inquiry before Christmas, and he suggested the 2 positioning of a longer operation platform or 2 being willing to pay for it?	4 A. The logistics the single point of conta	ict 4	4 A. Uh-hm.
thing as I have in Nova Scotia. That's my 8 liaison into the oil companies. 9 EARLE, Q.C.: 10 Q. And that's somebody in logistics? 11 MR, WILLIAMS: 12 A. Correct. 13 EARLE, Q.C.: 14 Q. Now you do not go to the HSE advisor on that 15 issue? 15 EARLE, Q.C.: 16 MR, WILLIAMS: 17 A. No, I don't. I report all incidents directly 18 to the logistics individuals for each 19 respective company. 20 EARLE, Q.C.: 21 Q. And just for the record, I think most of us 21 understand what logistics do? 22 understand what logistics dos, but what do 23 you understand logistics dos, but what do 24 you understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 7 respect for each individual oil company. 4 EARLE, Q.C.: 4 MR, WILLIAMS: 5 Q. I Know your training manual is audited, but is 6 there an audit of your training is audited and approved, 10 simulator training is audited and approved. Our 10 simulator training is audited and approved. Our 10 simulator training is audited and approved. Our 11 simulator training is audited and approved. Our 12 simulator training is audited and approved. Our 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada oversight and Transport 17 Canada audit? 15 LARLE, Q.C.: 16 MR, WILLIAMS: 17 A. I think the strange enough way to answer that 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland has 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland and 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland and 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland and 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland and 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland and offshore Newfoundland and 18 is yes, because it's very, very unpredictable. 19 The forecasting o	5 that I mentioned yesterday. We have a s	single	5 EARLE, Q.C.:
B	6 point of contact with each operator, the s	same	6 Q. In your experience, is the weather as between
9 EARLE, Q.C. 9 you would be able to avail of such an 10 alternate site for landing purposes? I've 11 MR. WILLIAMS: 11 never been out that way. I mean, is it foggy 2 all the way out all the time, or is it - or 3 is there a point when you get out that way. I mean, is it foggy 2 all the way out all the time, or is it - or 3 is there a point when you get out that way. I mean, is it foggy 3 and 12 he way out all the time, or is it - or 3 is there a point when you get out that way. I mean, is it foggy 3 all the way out all the time, or is it - or 3 is there a point when you get out that way. I mean, is it foggy 3 all the way out all the time, or is it - or 3 is there a point when you get out further that you're more likely to run into fog? What's 5 the situation? 16 MR. WILLIAMS: 17 A. No, I don't. I report all incidents directly 18 to the logistics individuals for each 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland 20 EARLE, Q.C.: 20 And just for the record, I think most of us 21 understand what logistics does, but what do 23 you understand logistics does, but what do 23 you understand logistics does, but what do 24 my understand logistics does over the summing an offshore alternate, an additional rig, whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do 24 my school training is audited and approved. Our similar training is audited	7 thing as I have in Nova Scotia. That's	my /	your destinations and St. John's, and your
10 Q. And that's somebody in logistics? 10 alternate site for landing purposes? I've 11 MR. WILLIAMS: 12 A. Correct. 12 all the way out all the time, or is it — or 13 EARLE, Q.C.: 13 EARLE, Q.C.: 14 Q. Now you do not go to the HSE advisor on that 14 you're more likely to run into fog? What's 15 the situation? 16 MR. BURT: 17 A. No, I don't. I report all incidents directly 18 to the logistics individuals for each 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland 18 is yes, because it's very, very unpredictable. 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland 18 is yes, because it's very, very unpredictable. 18 is yes, because it's very, very unpredictable. 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland 18 is yes, because it's very, very unpredictable. 18 is yes, because it's very, very unpredictab	8 liaison into the oil companies.		8 points in between, sufficiently variable that
It never been out that way. I mean, is it foggy all the way out all the time, or is it - or is there apoint when you get out further that you're more likely to run into fog? What's the situation?	9 EARLE, Q.C.:	9	you would be able to avail of such an
12	10 Q. And that's somebody in logistics?	10	alternate site for landing purposes? I've
13 is there a point when you get out further that you're more likely to run into fog? What's the situation? 16 MR. WILLIAMS:	11 MR. WILLIAMS:	1:	never been out that way. I mean, is it foggy
14 you're more likely to run into fog? What's issue? 15 issue? 16 MR. WILLIAMS: 17 A. No, I don't. I report all incidents directly 18 to the logistics individuals for each 18 is yes, because it's very, very unpredictable. 19 respective company. 19 The forecasting of the offshore Newfoundland has always been a challenge. In fact, 21 Transport Canada will not permit us to legally 22 understand what logistics does, but what do 23 you understand logistics does, but what do 23 you understand logistics doe's 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a 25 other areas such as the Gulf of Mexico that do 26 whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do Page 106 Page 108 allow that, but that's predicated on their weather environment and the fact that they have 2200 platforms there. So we can't take avail of that. Having other places to land is always good, the more the merrier in regards to opportunities as far as having places to land. SEARLE, Q.C.: 9 I think those are all my questions for you, gentlemen. You've covered the situation with search and rescue fairly well in your examination. What I'm hearing from you gentlemen. So it's a Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 KBURT: 19 A. We also have our customer audits that 20 participate in that as well. 20 MR. BURT: 14 A. We also have our customer audits that 20 participate in that as well. 20 MR. BURT: 15 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 A. We also have our customer audits that 19 D. We also have our customer audits that 19 D. We also have our customer audits that 19 D. We also have our customer audits that 19 D. We also have our customer audits that 19 D. We also have our custo	12 A. Correct.	12	all the way out all the time, or is it or
15 issue? 16 MR. WILLIAMS: 17 A. No. I don't. I report all incidents directly 18 to the logistics individuals for each 19 respective company. 19 EARLE, Q.C.: 20 And just for the record, I think most of us 21 understand what logistics does, but what do 22 understand logistics does, but what do 23 you understand logistics does, but what do 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a 26 Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited and approved. Our 10 simulator training is audited and approved. 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 to the logistics individuals for each 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland 18 is yes, because it's very, very unpredictable. 17 The forecasting of the offshore Newfoundland 18 is yes, because it's very, very unpredictable. 18 is yes, because it's very, very unpredictable. 17 Transport Canada will not permit us to legally 18 if yelling last with the strange enough way to answer that 18 is yes, because it's very, very unpredictable. 17 Transport Canada will not permit us to legally 18 if yelling last of the offshore destination and use 20 an offshore alternate, an additional rig, 21 whether it's fixed or floating. There are 22 other areas such as the Gulf of Mexico that do 23 whether it's fixed or floating. There are 24 other areas such as the Gulf of Mexico that de 25 an offshore alternate, an additional rig, 26 whether it's fixed or floating. There are 27 other areas such as the Gulf of Mexico that they 28 avail of that. Having other pla	13 EARLE, Q.C.:	13	is there a point when you get out further that
16 MR. WILLIAMS: 17 A. No, I don't. I report all incidents directly 18 to the logistics individuals for each 18 is yes, because it's very, very unpredictable. 19 respective company. 19 18 to the logistics individuals for each 18 is yes, because it's very, very unpredictable. 19 respective company. 19 18 to see yes, because it's very, very unpredictable. 19 respective company. 19 18 to see yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland has always been a challenge. In fact, 17 Transport Canada will not permit us to legally flight plan to an offshore destination and use 23 an offshore alternate, an additional rig, whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do 10 Page 108 10 Contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 4 EARLE, Q.C.: 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 7 I MR. BURT:	Q. Now you do not go to the HSE advisor o	n that 14	you're more likely to run into fog? What's
17 A. No, I don't. I report all incidents directly 18 to the logistics individuals for each 19 respective company. 10 EARLE, Q.C.: 21 Q. And just for the record, I think most of us 22 understand what logistics does, but what do 23 you understand logistics does, but what do 23 you understand logistics does, but what do 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training it sudited and approved. 10 simulator training is audited and approved. 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. I think the strange enough way to answer that 18 is yes, because it's very, very unpredictable. 19 The forecasting of the offshore Newfoundland has always been a challenge. In fact, 17 Transport Canada will not permit us to legally 18 flight plan to an offshore destination and use 22 an offshore alternate. 23 an offshore alternate. 24 whether it's fixed or floating. There are 25 other areas such as the Gulf of Mexico that do 26 and that, but that's predicated on their 27 weather environment and the fact that they 28 avail of that. Having other places to land is 29 allow that, but that's predicated on their 20 avays good, the more the merrier in regards 21 to opportunities as far as having places to 22 avail of that. Having other places to land is 23 avays good, the more the merrier in regards 24 to opportunities as far as having places to 25 always good, the more the merrier in regards 26 to opportunities as far as having places to 27 land. 28 EARLE, Q.C.: 30 Q. I think those are all my questions for you, 31 gentlemen. You've covered the situation with 32 search and rescue fairly well in your 33 exerch and rescue fairly well	issue?	1:	the situation?
18 to the logistics individuals for each 19 respective company. 19 EARLE, Q.C.: 21 Q. And just for the record, I think most of us 22 understand what logistics does, but what do 23 you understand logistics doe? 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 25 In the forecasting of the offshore Newfoundland. 26 has always been a challenge. In fact, 27 Transport Canada will not permit us to legally 16 that, a dalways been a challenge. In fact, 17 Transport Canada will not permit us to legally 18 that to an offshore alternate, an additional rig, 4 whether it's fixed or floating. There are 6 other areas such as the Gulf of Mexico that do Page 108 1 allow that, but that's predicated on their 2 weather environment and the fact that they 3 always good, the more the merrier in regards 6 to opportunities as far as having places to 10 allow that, but that's predicated on their 2 weather environment and the fact that they 3 allow that, but that's predicated on their 4 avail of that. Having other places to land is 2 always good, the more the merrier in regards 6 to opportunities as far as having places to 10 almd. 8 EARLE, Q.C.: 9 Q. I think those are all my questions for you,	16 MR. WILLIAMS:	10	16 MR. BURT:
19 respective company. 20 EARLE, Q.C.: 21 Q. And just for the record, I think most of us 22 understand what logistics does, but what do 23 you understand logistics doe? 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a 26 contract sponsor, these are the ones that 27 contract sponsor, these are the ones that 28 a respect for each individual oil company. 39 respect for each individual oil company. 40 EARLE, Q.C.: 41 EARLE, Q.C.: 42 avail of that. Having other places to land is 43 there an audit of your training itself? 44 EARLE, Q.C.: 45 Q. I know your training is audited, but is 46 there an audit of your training is ladited, our ground 49 school training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 15 MR. BURT: 16 A. Transport Canada audit? 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 21 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or	17 A. No, I don't. I report all incidents directly	y 1	17 A. I think the strange enough way to answer that
20 EARLE, Q.C.: 21 Q. And just for the record, I think most of us 22 understand what logistics does, but what do 23 you understand logistics do? 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited and approved, Our 10 simulator training is audited and approved, Our 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 MR. BURT: 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or	to the logistics individuals for each	18	is yes, because it's very, very unpredictable.
21 Q. And just for the record, I think most of us 22 understand what logistics does, but what do 23 you understand logistics do? 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or	19 respective company.	19	The forecasting of the offshore Newfoundland
22 understand what logistics does, but what do 23 you understand logistics do? 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada oversight and Transport 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or	20 EARLE, Q.C.:	20	20 has always been a challenge. In fact,
23 you understand logistics do? 24 MR. WILLIAMS: 25 A. I understand logistics is that they are a 26 other areas such as the Gulf of Mexico that do 27 respect for each individual oil company. 28 EARLE, Q.C.: 29 Q. I know your training manual is audited, but is 6 there an audit of your training is audited, but go simulator training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 10 A. Yes, our sirvinance of canada audit? 11 G. So it's a Transport Canada audit? 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 21 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 24 an offshore alternate, an additional rig, whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do the the 12 whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do that do that do that be ufter it's fixed or floating. There are other areas such as the Gulf of Mexico that do that do that do that hat swell 21 allow that, but that's predicated in their weather environment and the fact that they and low that, but that's predicated on their weather environment and the fact that they are dother that as allow that, but that's predicated in their allow that, but that's predicated on their weather environment and the fact that they avail of that. Having other places to land is always good, the more the merrier in regards to opportunities as far as having places to always good, the more the merrier in regards to opportunities as far as having places to land is always good, the more the merrier in regards to oppor	21 Q. And just for the record, I think most of	us 2	21 Transport Canada will not permit us to legally
24 MR. WILLIAMS: 25 A. I understand logistics is that they are a Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 Q. Mr. William Parsons made a presentation to the 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do 25 other areas such as the Gulf of Mexico that do 26 ther areas such as the Gulf of Mexico that do 26 whether it's fixed or floating. There are other areas such as the Gulf of Mexico that do 26 whether it's fixed or floating. Page 108 1 allow that, but that's predicated on their 2 weather environment and the fact that they 3 have 2200 platforms there. So we can't take 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other lav	22 understand what logistics does, but what	at do	flight plan to an offshore destination and use
25 other areas such as the Gulf of Mexico that do Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training is audited, our ground 9 school training is audited and approved. Our 10 simulator training is audited and approved, Our 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 MR. BURT: 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 2 our duties in 2 allow that, but that's predicated on their 2 weather environment and the fact that they 3 allow that, but that's predicated on their 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 5 always good, the more the merrier in regards 6 to opportunities as far as having places to 10 allow that, but that's predicated on their 2 weather environment and the fact that they 3 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having other places to land is 4 avail of that. Having open there. So we can't take 4 avail of that. Having other places to land is 4 avail of that. Having open theme.	you understand logistics do?	23	an offshore alternate, an additional rig,
Page 106 1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training is audited, our ground 9 school training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 21 Q. Mr. William Parsons made a presentation to the 12 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 10 contract sponsor, these are the ones that 21 allow that, but that's predicated on their weather environment and the fact that they allow that, but that's predicated on their weather environment and the fact that they allow that, but that's predicated on their weather environment and the fact that they have 20 platforms there. So we can't take avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. H	24 MR. WILLIAMS:	24	whether it's fixed or floating. There are
1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved, Our 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 20 MR. BURT: 21 EARLE, Q.C.: 21 A. That's correct, or exceed it. 22 Q. Mr. William Parsons made a presentation to the 24 Inquiry before Christmas, and he suggested the 25 Inquiry before Christmas, and he suggested the 26 Inquiry before Christmas, and he suggested the 26 Inquiry before Christmas, and he suggested the 27 Inquiry before Christmas, and he suggested the 28 Inquiry before Christmas, and he suggested the 29 Inquiry before Christmas, and he suggested the 20 Inquiry before Christmas, and he suggested the 20 Inquiry before Christmas, and he suggested the 20 Inquiry before Christmas, and he suggested the 21 Inquiry before Christmas, and he suggested the 21 Inquiry before Christmas, and he suggested the 22 Inquiry before Christmas Inquiry Inquiry Inquiry Inquiry Inquiry Inquiry	25 A. I understand logistics is that they are a	a 25	other areas such as the Gulf of Mexico that do
1 contract sponsor, these are the ones that 2 monitor our performance of our duties in 3 respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved, Our 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 20 MR. BURT: 21 EARLE, Q.C.: 21 A. That's correct, or exceed it. 22 Q. Mr. William Parsons made a presentation to the 24 Inquiry before Christmas, and he suggested the 25 Inquiry before Christmas, and he suggested the 26 Inquiry before Christmas, and he suggested the 26 Inquiry before Christmas, and he suggested the 27 Inquiry before Christmas, and he suggested the 28 Inquiry before Christmas, and he suggested the 29 Inquiry before Christmas, and he suggested the 20 Inquiry before Christmas, and he suggested the 20 Inquiry before Christmas, and he suggested the 20 Inquiry before Christmas, and he suggested the 21 Inquiry before Christmas, and he suggested the 21 Inquiry before Christmas, and he suggested the 22 Inquiry before Christmas Inquiry Inquiry Inquiry Inquiry Inquiry Inquiry		Page 106	Page 108
monitor our performance of our duties in respect for each individual oil company. EARLE, Q.C.: Q. I know your training manual is audited, but is there an audit of your training itself? MR. BURT: A. Yes, our training is audited and approved, simulator training is audited and approved, leements of that on an occasional basis. EARLE, Q.C.: Q. So it's a Transport Canada audit? MR. BURT: A. Transport Canada oversight and Transport land audit. A. Transport Canada oversight and Transport land audit. A. Transport Canada oversight and Transport land audit. A. We also have our customer audits that participate in that as well. D. We also have our customer audits that positioning of a longer operation platform or D. We also have operation platform or D. We also have our customer audits matter and positioning of a longer operation platform or D. We also have our customer audits of the land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is avail of that. Having other places to land is always good, the more the merrier in regards to opportunities as far as having places to land. EARLE, Q.C.: Q. I think those are all my questions for you, gentlemen. You've covered the situation with search and rescue fairly well in your examination. What I'm hearing from you gentlemen, and I want to be sure I'm correct, is that if somebody says to Cougar Helicopters, or for that matter any number of your competitors, provide us with dedicated search and rescue equipment to what DND can offer based in St. John's, Newfoundland, you can do it? D. Want BURT: D. We also have our customer audits that participate in that as well. D. We also have our customer audits that participate in that as well. D. We also have our customer audits that participate in that as well. D. We also have our customer audits that participate in that as well. D. Want BURT: D. We also have 2200 platforms the avail of	contract sponsor, these are the ones th	_	•
respect for each individual oil company. 4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved, 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 have 2200 platforms there. So we can't take 4 avail of that. Having other places to land is 5 always good, the more the merrier in regards 6 to opportunities as far as having places to 7 land. 8 EARLE, Q.C.: 9 Q. I think those are all my questions for you, 11 search and rescue fairly well in your 12 examination. What I'm hearing from you 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 3 have 2200 platforms there. So we can't take avail of that. Having other places to land is 5 always good, the more the merrier in regards to opportunities as far as having places to 10 always good, the more the merrier in regards to opportunities as far as having places to 12 pland. 8 EARLE, Q.C.: 11 search and rescue fairly well in your 12 examination. What I'm hearing from you 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 MR. BURT: 20 MR. BURT: 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 land. 24 participate in that as well. 25 EARLE, Q.C.: 26 Q. Mr. Burt: 27 A. That's correct, or exceed it. 28 EARLE, Q.C.: 29 Q.	_		
4 EARLE, Q.C.: 5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 6 TMR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved. Our 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 24 positioning of a longer operation platform or 24 avail of that. Having other places to land is 5 always good, the more the merrier in regards 6 to opportunities as far as having places to 7 land. 8 EARLE, Q.C.: 9 Q. I think those are all my questions for you, gentlemen. You've covered the situation with 11 search and rescue fairly well in your 12 examination. What I'm hearing from you 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 MR. BURT: 19 Canada audit. 19 can do it? 20 MR. BURT: 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or	•	I	
5 Q. I know your training manual is audited, but is 6 there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved. Our 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 5 always good, the more the merrier in regards 6 to opportunities as far as having places to 7 land. 8 EARLE, Q.C.: 9 Q. I think those are all my questions for you, gentlemen. You've covered the situation with 11 search and rescue fairly well in your examination. What I'm hearing from you 12 examination. What I'm hearing from you 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 offer based in St. John's, Newfoundland, you 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			
there an audit of your training itself? 7 MR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved. Our 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 6 to opportunities as far as having places to 7 land. 8 EARLE, Q.C.: 9 Q. I think those are all my questions for you, 10 gentlemen. You've covered the situation with 11 search and rescue fairly well in your 12 examination. What I'm hearing from you 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 offer based in St. John's, Newfoundland, you 19 A. That's correct, or exceed it. 20 MR. BURT: 21 EARLE, Q.C.: 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?		but is	
7 MR. BURT: 8 A. Yes, our training is audited, our ground 9 school training is audited and approved. Our 10 simulator training is audited and approved, 11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 10 search and rescue fairly well in your 11 search and rescue fairly well in your 12 examination. What I'm hearing from you 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 offer based in St. John's, Newfoundland, you 19 A. That's correct, or exceed it. 20 MR. BURT: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			• •
school training is audited and approved. Our simulator training is audited and approved, simulator training is audited and approved, and Transport Canada participates in all learness of that on an occasional basis. learness of the search and rescue fairly well in your examination. What I'm hearing from you gentlemen. You've covered the situation with learness of the search and rescue fairly well in your examination. What I'm hearing from you gentlemen. You've covered the situation with learness of the search and rescue fairly well in your examination. What I'm hearing from you learness of the search and rescue fairly well in your of the search and rescue fairly well in your learness of the search and rescue fairly well in your learness of the search and rescue fairly well in your learness of the search and rescue fairly well in your learness of the search and rescue fairly well in your learness of the search and rescue fairly well in your learness of the search and rescue fairly well in your learness of th	-	,	* *
school training is audited and approved. Our simulator training is audited and approved, simulator training is audited and approved, and Transport Canada participates in all learness of that on an occasional basis. learness of the search and rescue fairly well in your examination. What I'm hearing from you gentlemen. You've covered the situation with learness of the search and rescue fairly well in your examination. What I'm hearing from you learness of the search and rescue fairly well in your occue fairly well in your occue fairly well in your occue fairly well in your learness of the search and rescue fairly well in your occue fair		nd	
simulator training is audited and approved, and Transport Canada participates in all elements of that on an occasional basis. EARLE, Q.C.: Q. So it's a Transport Canada audit? MR. BURT: A. Transport Canada oversight and Transport Canada audit. MR. WILLIAMS: A. We also have our customer audits that participate in that as well. EARLE, Q.C.: A. We also have our customer audits that participate in that as well. Inquiry before Christmas, and he suggested the positioning of a longer operation platform or In and Transport Canada approved, Inquiry before Canada approved, In and Transport Canada participates in all Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved, In gentlemen. You've covered the situation with Insurance approved approv			
11 and Transport Canada participates in all 12 elements of that on an occasional basis. 13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 15 search and rescue fairly well in your 16 examination. What I'm hearing from you 17 examination. What I'm hearing from you 18 search and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 offer based in St. John's, Newfoundland, you 19 can do it? 20 MR. BURT: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?	1		* = *
elements of that on an occasional basis. 12			_
13 EARLE, Q.C.: 14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 13 gentlemen, and I want to be sure I'm correct, 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 offer based in St. John's, Newfoundland, you 19 can do it? 20 MR. BURT: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			
14 Q. So it's a Transport Canada audit? 15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 14 is that if somebody says to Cougar 15 Helicopters, or for that matter any number of 16 your competitors, provide us with dedicated 17 search and rescue equipment to what DND can 18 offer based in St. John's, Newfoundland, you 19 can do it? 20 MR. BURT: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			
15 MR. BURT: 16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 25 Helicopters, or for that matter any number of 26 your competitors, provide us with dedicated 27 search and rescue equipment to what DND can 28 offer based in St. John's, Newfoundland, you 29 MR. BURT: 20 MR. BURT: 21 EARLE, Q.C.: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			_
16 A. Transport Canada oversight and Transport 17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 25 your competitors, provide us with dedicated 26 your competitors, provide us with dedicated 27 search and rescue equipment to what DND can 28 offer based in St. John's, Newfoundland, you 29 MR. BURT: 21 EARLE, Q.C.: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			• • • • • • • • • • • • • • • • • • • •
17 Canada audit. 18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 25 search and rescue equipment to what DND can 26 longer based in St. John's, Newfoundland, you 27 can do it? 28 MR. BURT: 29 MR. BURT: 21 EARLE, Q.C.: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?			
18 MR. WILLIAMS: 19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 25 participate in that as well. 26 MR. BURT: 27 A. That's correct, or exceed it. 28 EARLE, Q.C.: 29 Q. And really it is only a matter of somebody being willing to pay for it?		-	
19 A. We also have our customer audits that 20 participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 25 Can do it? 26 MR. BURT: 27 A. That's correct, or exceed it. 28 EARLE, Q.C.: 29 Q. And really it is only a matter of somebody being willing to pay for it?			
participate in that as well. 21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 20 MR. BURT: 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?		I	· · · · · · · · · · · · · · · · · · ·
21 EARLE, Q.C.: 22 Q. Mr. William Parsons made a presentation to the 23 Inquiry before Christmas, and he suggested the 24 positioning of a longer operation platform or 21 A. That's correct, or exceed it. 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody 24 being willing to pay for it?		I	
Q. Mr. William Parsons made a presentation to the Inquiry before Christmas, and he suggested the positioning of a longer operation platform or 22 EARLE, Q.C.: 23 Q. And really it is only a matter of somebody being willing to pay for it?			
Inquiry before Christmas, and he suggested the positioning of a longer operation platform or 23 Q. And really it is only a matter of somebody being willing to pay for it?			· · · · · · · · · · · · · · · · · · ·
positioning of a longer operation platform or 24 being willing to pay for it?	_		
mp or a sesteme recess out that a last min point.	drill ship or a dedicated rescue ship with		25 MR. BURT:

February 4, 2010 M	Iulti-Page	Offshore Helicopter Safety Inquiry
Page	109	Page 111
1 A. Ultimately somebody has to pay for it, yes.	1	helicopter transportation operations. So, in
2 EARLE, Q.C.:	2	essence, 2009 was supposed to be the date of
3 Q. Yes, and the fact that you now have a one hour	r 3	initial, not only development, but regulation
4 wheels up time, the fact that you had ten	4	in place. Cougar was developing and enhancing
5 hours of training before March 12th, is a	5	through the time of March 12th, 2009. There
6 function of what the operators were prepared	6	was no requirement at that time because it had
7 to pay for?	7	already been pushed back to 2010, yet we
8 MR. BURT:	8	forged ahead with it, finalized and completed
9 A. At that time, yes.	9	it and initiated it through the company.
10 EARLE, Q.C.:	10 MI	R. MARTIN:
11 Q. Thank you, gentlemen.	11	Q. But it's a process separate from the March
12 COMMISSIONER:	12	12th incident, is that a fair comment?
13 Q. Thank you, Mr. Earle. I know, Mr. Martin,	13 MI	R. BANKS:
that you want to ask some questions, and I	14	A. Yes, yes.
think Ms. O'Brien, do you probably we ough	ht 15 MI	R. MARTIN:
to we didn't have a proper break anyway	16	Q. I just wanted to clarify that. I just
this morning. Let's adjourn, if you agree,	17 MI	R. BANKS:
until 2 o'clock and then come back and have	18	A. It's been on development phases since 2007.
time to ask whatever you want to ask. Okay,	19 MI	R. MARTIN:
20 thank you.	20	Q. Okay, that's fine. The next question I have
21 (RECESS)	21	is concerning the audits, and it's not a
22 COMMISSIONER:	22	detailed question per se, there were several
23 Q. Okay, Mr. Martin.	23	slides presented yesterday, and I don't need
24 MR. MARTIN:	24	to reproduce them for our purposes this
25 Q. Thank you, Mr. Commissioner.	25	afternoon, but you were asked about areas of
Page	110	Page 112
1 MR. RICHARD BANKS, MR. RICK BURT, MR. HANK WILLIAMS:	: 1	non-conformity and I think your answer was
2 EXAMINATION BY MR. JAMIE MARTIN:	2	I think, Mr. Banks, your answer was it's been
3 MR. MARTIN:	3	some time since I have seen that, and there
4 Q. Good afternoon, gentlemen. As you know, I'm	4	wasn't a question asked about examples of non-
5 Jamie Martin, I represent the families of the	5	conformity and I'm just wondering whether you
6 deceased passengers on the March 12th, 2009,	6	could indicate because obviously from your
7 incident. I'm going to start off with a	7	answer, I presumed that there were areas of
8 couple of just points of clarification, and	8	non-conformity that came up in the audits in
9 the first one, and I'm a little bit unclear,	9	past years. Can you think of an example of
the Safety Management System that you're	10	non-conformity that's come up in your audits
mandated to provide, I think it's the Safety	11	in recent years?
Management System that you're mandated to	12 MI	R. BANKS:
provide by Transport Canada in 2011, I'm a	13	A. Oh, there could be, for instance, ISO
little bit unclear as to when that decision	14	9001:2008. At the time, as we were through
15 was made by Transport Canada. Was that made	15	certification and moving forward with our
before the March 12th incident, or can you	16	program, we did receive a non-conformance a
give me just a little bit of background as to	17	number of years back, and that is applicable
18 how that decision was made?	18	to the standard of ISO, for instance, and I

20

21

22

23

24

25

could throw one out there that was a

management review that was not completed in

January, we completed it in February, so, you

know, at that time it was a month out, a month

behind, so according to the standard it was

supposed to be done in January. So to them,

when they audited us, it becomes a non-

A. The regulatory requirement originated for

first audits to begin in 2009. They then

learned in the last couple of months that

it'll be 2011 before the audits begin for

concluded, Transport Canada, that they weren't

ready, push it back to 2010. Now we have just

19 MR. BANKS:

20

21

22

23

24

25

February 4, 2010	Multi-Page TM	Offshore Helicopter Safety Inquiry
I	Page 113	Page 115
1 conformance. Now not critical because it	was 1 MR. MART	
on the plans, it was just delayed a little	2 Q. So	they're fairly expensive products?
bit, so it was summed up rather quickly an		• • • • • •
4 moved on.	4 A. Coi	rrect.
5 MR. MARTIN:	5 MR. MART	ΓΙΝ:
6 Q. So that's the only example of non-conform	mity 6 O. I'll	get to that just a little later in my
7 that you can recall?	-	estions. I just want to refer you just in
8 MR. BANKS:	_	area of questioning, the organization
9 A. That I can recall. You know, it depends or		rt if I can get the Registrar to
you know, it could be contractual, to do w		roduce that. There's actually two that I
HS&E, or it could be a quality QHS&E, which	_	nt to refer to. One is at Tab 9 and the
Quality Health Safety and Environment a		er one is at Tab 13. They're not tabs. I
from years gone by, but nothing to m		er to them as tabs. Exhibit 9 of the
recollection that I can recall.	·	werPoint presentation, and Exhibit 13.
15 MR. MARTIN:	15 MR. BURT	- I
Q. The next area of questioning, I know you		on't know the exhibit number offhand.
had a longstanding relationship with Sikon		
and I know you currently have four S-92	•	
believe, and one S-61, is that correct?	19 MR. MAR	
20 MR. BURT:	20 Q. Oka	
21 A. I believe we have five	21 MS. FAGA	•
22 MR. MARTIN:		it will be slide 9.
Q. In the east coast, Newfoundland and Labra		
24 MR. BURT:		de 9 and slide 13. So we'll start with
25 Q. East coast, yes.	,	le 9 first. My particular interest
·	Page 114	Page 116
1 MR. MARTIN:		re's no date on this organization chart,
2 Q. That's what I'm referring to, and those S-		I presume that depicts the organizational
are dedicated to the companies involved	I	acture that exists today, is that correct?
4 exploration and production?	4 MR. BURT	•
5 MR. BURT:		at's correct.
6 A. Right.	6 MR. MART	
7 MR. MARTIN:		at I'm particularly interested in is you
8 Q. Do you normally purchase or lease yo		re the Director of Safety and Quality
9 helicopters?		orting directly to the President and Chief
10 MR. BURT:	_	ecutive Officer. Was that the reporting
11 A. We purchase the aircraft through our par		ationship on March 12th, 2009?
company and we lease to the operating		- I
entities, so we will, in fact, lease the	-	s, Ken Norie was the accountable executive
14 aircraft.		ich Rick Mr. Banks, the Director of
15 MR. MARTIN:		ety and Quality, reported to.
Q. And typical, what would be the normal pr		
I know you can get them with different op		s there ever a time in your memory, in your
and things like that.		mory of the organizational chart, where that
19 MR. BURT:	I	orting relationship didn't exist? I mean,
20 A. Price of the S-92?	_	s that something that's been there for a
21 MR. MARTIN:	I	g while.
22 Q. Price of S-92, yes.	22 MR. BURT	- I
23 MR. BURT:		ad to go right back to the accountable
24 A. Sure. I mean, it will range between		cutive concept with Transport Canada some
25 million US to 25 million US.		e or six years ago.
ı		· · · ·

redruary 4, 2010	Mulu-P	age Onshore Hencopter Safety Inquiry
Paş	ge 117	Page 119
1 MR. MARTIN:	1	MR. MARTIN:
2 Q. So it's a Transport Canada directive that	2	Q. You keep talking about how proactive you are
3 requires	3	in whatever aspect of your operations, and I
4 MR. BURT:	4	noted with interest, Mr. Banks, when he spoke
5 A. Transport Canada mandated line of	5	of the Safety Management System, he spoke of a
6 communication and responsibility.	6	continuum that had reactive on one hand on
7 MR. MARTIN:	7	one side, with generative on the other side,
8 Q. If you can just turn up Exhibit 13, please, in	8	and proactive in the middle. So and I did
9 the same PowerPoint.	9	observe, Mr. Burt, I think you made it a point
10 REGISTRAR:	10	to say that your organization is not
11 Q. Slide 13.	11	
12 MR. MARTIN:	12	
Q. Slide 13, yes, I'm sorry, my terminology is a	a 13	•
bit different, I guess. So slide 13 there	14	•
refers to the Quality Assurance Manager. N	ow 15	
that's different than the individual who's	16	
described on slide 9. That's a manager as	17	· · · · · · · · · · · · · · · · · · ·
opposed to a director. Is that	18	
19 MR. BURT:	19	
20 A. The Quality Assurance Manager in this case		·
21 an engineering quality assurance manager, b		· · · · · · · · · · · · · · · · · · ·
the Director of Safety on the right hand side.		2 MR. BURT:
as well as the Director of Maintenance, and	I	
the Director of Flight Operations, all have		MR. MARTIN:
direct lines of reporting to the accountable	25	
	ge 118	Page 120
	36 110	word "proactive" several times.
1 executive. 2 MR. MARTIN:	1	2 MR. BURT:
3 Q. Okay, and again is that a Transport Canada		
4 requirement?		MR. MARTIN:
5 MR. BURT:		5 Q. Okay. So I do have a couple of questions, but
		· · · · · · · · · · · · · · · · · · ·
	6	· · ·
7 MR. MARTIN:	7	<i>y</i> ,
8 Q. So it's not something that Cougar, on its ow		, ,
9 volition decided that that's the reporting	9	
relationship we should ideally have?	10	
11 MR. BURT:		MR. BURT:
12 A. No, and that's why I said it's absolutely	12	ε
important to understand this slide as a	I	3 MR. MARTIN:
14 Transport Canada mandated reporting system		
15 MR. MARTIN:	15	
Q. Okay. I just want to make some general		6 MR. BURT:
observations and I do have some question		
arising from your so-called safety culture,		3 MR. MARTIN:
and one thing that I observed and heard ove		
20 the last couple of days, I could probably	20	
count it in the transcripts, having reviewed		MR. BURT:
them all last night, the word "proactive"	22	
23 shows up frequently.		3 MR. MARTIN:
24 MR. BURT:	24	
25 A. Yes.	25	5 MR. BURT:

February 4, 2010	Multi-Page Offshore Helicopter Safety Inquiry
F	Page 121 Page 123
1 A. Correct.	going with my line of questioning. So what
2 MR. MARTIN:	2 did you understand to be the problem with the
3 Q. And we saw evidence of that, the FA.	
4 airworthiness directive in relation to the S-	
5 92 in March, I gather, of 2009, shortly after	
6 the accident, is that correct?	6 that point there was actually, the ASB
7 MR. BURT:	before March, I hadn't had any overview of
8 A. That's correct.	8 that ASB myself, in January 28th.
9 MR. MARTIN:	9 MR. MARTIN:
10 Q. I just want to go back to the alert service	10 Q. And how about other members of the panel, what
bulletins, though. Do you know of any al	_
service bulletins that were issued by the	
manufacturer, and I'm talking prior to Ma	
you aware of any alert and if it's beyon	
the jurisdiction of the Commission, I'm su	
18 I'll be told. Are you aware of any alert	18 MR. BURT:
service bulletins that were issued by the	
manufacturer, Sikorsky, prior to March 12	
21 2009, in relation to the S-92s?	21 Q. Now I think you indicated yesterday that
22 MR. BURT:	there's about 120 to 125 S-92s in service
23 A. I think it was the alert service bulletin in	around the world?
24 January.	24 MR. BURT:
25 MR. MARTIN:	25 A. Right.
F	Page 122 Page 124
1 Q. January of '09?	1 MR. MARTIN:
2 MR. BURT:	2 Q. I think that was your evidence.
3 A. Right, referring to the replacement of the	3 MR. BURT:
4 studs.	4 A. Yes.
5 MR. MARTIN:	5 MR. MARTIN:
6 Q. And that was in January of '09?	6 Q. And the S-92 is a Sikorsky manufactured
7 MR. BURT:	7 product.
8 A. Right.	8 MR. BURT:
9 MR. MARTIN:	9 A. Right.
10 Q. The replacement of the studs. Was that t	
first time you had heard of a problem with	
12 studs?	incident in the summer of 2008 in Australia
13 MR. BURT:	involving an S-92?
14 A. For me, it was, yes. I mean, from a alert	
service bulletin point of view, yes.	15 A. I understood that they had an incident there
16 MR. MARTIN:	as well that they did lose main gearbox oil.
17 Q. And just describe what the problem was	
the studs that you understood from the ale	
service bulletin? If we can't go there, fine	
20 but I	20 A. Yes.
21 COMMISSIONER:	21 MR. MARTIN:
22 Q. I think that's perfectly all right because	22 Q. Okay, when did you first become aware of that?
23 this predated the	23 MR. BURT:
_	1/3 MK BUKI'
124 MR MARTIN:	
24 MR. MARTIN: 25 Q. Predated March 12th, and that's where 1	24 A. I heard of the event in just general talk in

Tebruary 4, 2010 Wint	1-1 age	Offshore Hencopter Safety Inquiry
Page 125		Page 127
brought more to light in light of our event.	1	bring to the attention of your President and
2 MR. MARTIN:	2	Chief Executive Officer that there's a problem
3 Q. So you just heard talk in the industry, say,	3	with an aircraft that you use extensively?
4 between it happened my recollection, my	4 MR	R. BURT:
5 reading indicates that it happened in July of	5 .	A. It just wasn't raised in our industry as a
6 '08.	6	standing issue. We try to keep awareness of
7 MR. BURT:	7	everything that goes on in general, but there
8 A. Right.	8	wasn't anything that was brought up as a
9 MR. MARTIN:	9	specific topic, no.
10 Q. So between July of '08 and January '09, when	10 MR	R. MARTIN:
you got the alert service bulletin, there was	11	Q. So you get your airworthiness directive
talk of some problem with the studs in the S-	12	sorry, the alert service bulletin in January
13 92 helicopter?	13	'09, there's knowledge that there was a
14 MR. BURT:	14	problem with the studs in a similar aircraft
15 A. There was talk of a loss of oil in the	15	in Australia some six months earlier, and then
incident in Australia, in general. Again I	16	and you spoke to this in your evidence, I
had very few specifics as to what went on	17	believe on Tuesday, the airworthiness
there.	18	directive of FAA, the Federal Aviation
19 MR. MARTIN:	19	Authority, is that correct?
20 Q. Okay, now any other members of the panel have	20 MR	R. BURT:
any knowledge that they could bring to bear on	21	A. Uh-hm.
that question?	22 MR	R. MARTIN:
23 MR. BANKS:	23	Q. And that says in part, and correct me if I'm
24 A. For myself, no. It was post March 12th before	24	wrong, that there is a problem with the studs
25 I found out.	25	in the March 12th the helicopter that was
Page 126		Page 128
Page 126	1	Page 128 being used on March 12th.
1 MR. MARTIN:	1	
-	1 2 MR	being used on March 12th. R. BURT:
1 MR. MARTIN:2 Q. Mr. Williams, same thing.3 MR. WILLIAMS:	1 2 MR 3	being used on March 12th.
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS:	1 2 MR 3 4 MR	being used on March 12th. R. BURT: A. Right, right.
 1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 	1 2 MR 3 4 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN:
 1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 	1 2 MF 3 4 MF 5 6	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia
 MR. MARTIN: Q. Mr. Williams, same thing. MR. WILLIAMS: A. (no audible response) MR. MARTIN: Q. Now let's go back to your organizational 	1 2 MF 3 4 MF 5 6 7 MF	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT:
 MR. MARTIN: Q. Mr. Williams, same thing. MR. WILLIAMS: A. (no audible response) MR. MARTIN: Q. Now let's go back to your organizational chart. If you could turn up slide #9, and, 	1 2 MF 3 4 MF 5 6 7 MF	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of?
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your	1 2 MF 3 4 MF 5 6 7 MF 8	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that	1 2 MR 3 4 MR 5 6 7 MR 8 9 10	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event.
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event.
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13	being used on March 12th. 8. BURT: A. Right, right. 8. MARTIN: Q. A similar problem to what existed in Australia that you know of? 8. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. 8. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct?
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on?	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT:
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on? 18 MR. BURT:	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18 19 MR 19 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT: A. Yes. R. MARTIN:
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on? 18 MR. BURT: 19 A. No, not necessarily, no.	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18 19 MR 20	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT: A. Yes.
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on? 18 MR. BURT: 19 A. No, not necessarily, no. 20 MR. MARTIN:	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18 19 MR 20 21 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT: A. Yes. R. MARTIN: Q. And I presume
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on? 18 MR. BURT: 19 A. No, not necessarily, no. 20 MR. MARTIN: 21 Q. You're not aware of any communication?	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18 19 MR 20 21 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT: A. Yes. R. MARTIN: Q. And I presume R. BURT:
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on? 18 MR. BURT: 19 A. No, not necessarily, no. 20 MR. MARTIN: 21 Q. You're not aware of any communication? 22 MR. BURT:	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18 19 MR 20 21 MR 22 23	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT: A. Yes. R. MARTIN: Q. And I presume R. BURT: A. After the ASB that we received on January
1 MR. MARTIN: 2 Q. Mr. Williams, same thing. 3 MR. WILLIAMS: 4 A. (no audible response) 5 MR. MARTIN: 6 Q. Now let's go back to your organizational 7 chart. If you could turn up slide #9, and, 8 you know, there's information out in your 9 industry about a problem with studs that 10 caused the helicopter to not function properly 11 in Australia. Was there any communication that 12 any of you were aware of from the Director of 13 Safety and Quality, or from someone else in 14 the organization, to the President and Chief 15 Executive Officer about a problem that was 16 happening with a piece of equipment that you 17 relied so extensively on? 18 MR. BURT: 19 A. No, not necessarily, no. 20 MR. MARTIN: 21 Q. You're not aware of any communication? 22 MR. BURT: 23 A. No.	1 2 MR 3 4 MR 5 6 7 MR 8 9 10 11 MR 12 13 14 15 16 17 MR 18 19 MR 20 21 MR 22 23 24 MR	being used on March 12th. R. BURT: A. Right, right. R. MARTIN: Q. A similar problem to what existed in Australia that you know of? R. BURT: A. I certainly know of now. It's been a big part of the post-accident investigation and general pool of knowledge in this event. R. MARTIN: Q. So you then proceeded pursuant to that directive, I'll call it the airworthiness directive, to order parts to look after the issue, look after the problem, is that correct? R. BURT: A. Yes. R. MARTIN: Q. And I presume R. BURT: A. After the ASB that we received on January 28th, you mean?

February 4, 2010	Multi-Page TM	Offshore Helicopter Safety Inquiry
P	age 129	Page 131
1 your evidence was that you did it after the	-	MISSIONER:
2 airworthiness directive in March of		I think it's a legitimate question because it
3 MR. BURT:	3	was answered yesterday, and I thought that the
4 A. No, we did it the ASB, as a normal function	-	witness, I'm not sure which one, said that the
of receiving an ASB, the parts were ordere		parts had to be manufactured, and they waited.
6 right away at that time, and then as we said		MARTIN:
the parts started arriving soon after that.		I'll tell you where I'm going with it, because
8 MR. MARTIN:	8	I'm ultimately going to be asking the question
9 Q. Now you did have parts on March 13th, if		what information, if any, did you provide to
10 memory	10	the end users of your system, the people who
11 MR. BURT:	11	are your passengers, and I'll get to that in a
		moment, because that's where I'm going with
12 A. It started coming as soon as March 13th, so of them.	12	this.
14 MR. MARTIN:	13 14 MR. F	
		Uh-hm.
15 Q. So you got the directive in January?		
16 MR. BURT:	16 MR. N	
17 A. ASB.		So I want to know what information, if any,
18 MR. MARTIN:	18	did you communicate to the eighteen people
19 Q. ASB, I'm sorry, but I thought you ordered th		that were on including your pilots, that
20 parts because of the ASB?	20	were on that aircraft on March 12th, and prior
21 MR. BURT:	21	to that and subsequent to it, but I'll get to
22 A. Yes.	22	that in a moment, because what I want to
23 MR. MARTIN:	23	establish is that you were aware of the alert
Q. Yeah, so you parts don't arrive until almos		service bulletin, you started ordering parts,
25 two and a half months after?	25	and as the Commissioner noted
Pa	age 130	Page 132
1 MR. BURT:	1 MR. B	URT:
2 A. Well, the parts arrived we ordered the	2 A.	Let me clarify, our Maintenance Department was
3 parts after the ASB, right after it.	3	aware of the service bulletin. We told you
4 MR. MARTIN:	4	that.
5 Q. Yes, which is in January? January was the	5 MR. M	IARTIN:
6 ASB. I think that was your evidence, January	6 Q.	Yes.
7 was the ASB. Two of the three people on the	7 MR. B	URT:
8 panel say that's you said you had knowledge	8 A.	So our Maintenance Department received this
9 of it in with the summer of 2008 problem	9	service bulletin. I think it was late
and experience in Australia. You get the ASB	10	January 28th, and I gave you the format that
and you order some parts, and it's two and a	11	they use to review it. The service bulletin
half months later, post March 12th, when you	12	comes in, it gets reviewed for applicability,
actually get the parts in? If I'm misreading	13	and then gets run through our Maintenance
your evidence, please let me know.	14	Department, goes to the planning area, and
15 WHALEN, Q.C.:	15	then it gets assessed and then gets put in.
Q. Mr. Commissioner, I don't know where counse	el 16	Parts get ordered, and then we put the work
is going with this, but if the notice came in	17	order into our system. Combined with when the
late in January and parts were starting to be	18	parts arrive in a complete kit, the
received in early March, I don't believe	19	maintenance is effected and then there's a
that's two and a half months, I believe that's	20	compliance report that the maintenance is done
21 more like a month and a half. I wonder where	21	goes back upstairs. That is what happens to
22 it's taking us because we're straying right	22	an ASB.
23 into that same area again.	23 MR. M	
24 MR. MARTIN:		Right. Now
25 Q. I'll tell you where it's going to take us.	25 MR. B	- I
1-2 V. I II toll jou where it is going to take us.	25 MR. B	····

Page 135 1 A. All ASBs. 2 MR. MARTIN: 3 Q. Mr. Whalen is probably correct in the dates, 4 it's probably a month and a half or so, but we 5 do know that there's a return to service in 6 May, and I forget the exact date in May— 7 what date in May was that? 8 MR. WILIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get— 14— Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you— 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: Page 134 1 A. Correct, before— 2 MR. MARTIN: 3 Q. You get your parts and you— 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 that was that an expensive repair to that 11 that were involved in it. 5 do know that there's a return to service in the dates, and adhesives, and the new studs that there in volved in it. 5 dr. MARTIN: 2 MR. MARTIN: 2 MR. MRATIN: 3 Q. Yon get you've already got an alert service unletinally the same problem presented itself, is it something that having the knowledge that wore diad about the summer of '08 incident in Australia where essantially the same problem presented itself, is it something that you did about the summer of '08 incident in Australia where essance— 13 MR. MARTIN: 14 Q. Something that you probably could have addressed— notwithstanding having to wait around for an alert service bulletin, is it something that you dould have looked into as the company, Cougar? Knowing what you did in the summer of '08, between the summer of '08 and January of '09— 2 MR. B
2 MR. MARTIN: 3 Q. Mr. Whalen is probably correct in the dates, 4 it's probably a month and a half or so, but we 5 do know that there's a return to service in 6 May, and I forget the exact date in May— 7 what date in May was that? 8 MR. WILLIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get— 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 Q. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you— 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 20 A. Correct, before 21 MR. MARTIN: 22 Q. You get your parts and you— 23 presumably you get result and you— 24 MR. BURT: 25 MR. MARTIN: 26 MR. MARTIN: 27 MR. MARTIN: 28 Q. You get your parts and you— 29 MR. MARTIN: 29 MR. MARTIN: 30 Q. You get your parts and you— 4 MR. BURT: 5 A. Before next flight. 5 MR. Walliams is problem before May 5 MR. Walliams is problem before May 6 Defore next flight, yeah, and again I'll ask 7 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 the desired in May and the were involved in it. 15 MR. MARTIN: 16 Q. But is it something that having the knowledge 16 that you did about the summer of '08 incident 16 in Australia where essentially the same 17 that you did about the summer of '08 incident 18 in Australia where essentially the same 19 Problem presented itself, is it something that using your proactive stance— 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you did about the summer of '08 incident 15 in Australia where essentially the same 16 au you form and a summer of '08 incident 16
3 Q. Mr. Whalen is probably correct in the dates, 4 it's probably a month and a half or so, but we 5 do know that there's a return to service in 6 May, and I forget the exact date in May— 7 what date in May was that? 8 MR. WILLIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get— 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you— 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 27 MR. MARTIN: 3 Q. You get your parts and you— 4 MR. BURT: 3 Q. You get your parts and you— 4 MR. BURT: 5 A. Before next flight. 6 Q. Mut is it something that having the knowledge that that you did about the summer of '08 incident in Australia where essentially the same problem presented itself, is it something that using your proactive stance— 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed—notwithstanding having to wait arrow and arrow of '08, between the summer of '08 and January of '09— 21 MR. BURT: 22 Q. After March 12th, yes, yes. So then you— 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 3 Q. You get your parts and you— 4 MR. BURT: 4 MR. MARTIN: 5 A. Before next flight. 5 MR. BURT: 5 A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'll Doviously have to respect the opinion of the Chair or the position of the Commissioner, 10 W. Burt: 11 A. Correct, before— 2 MR. MARTIN: 2 MR. MARTIN: 3 Q. You get your parts and you— 4 MR. BURT: 5 A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'm limit an
3 Q. Mr. Whalen is probably correct in the dates, 4 it's probably a month and a half or so, but we 5 do know that there's a return to service in 6 May, and I forget the exact date in May— 7 what date in May was that? 8 MR. WILLIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get— 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you— 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 27 MR. MARTIN: 3 Q. You get your parts and you— 4 MR. BURT: 3 Q. You get your parts and you— 4 MR. BURT: 5 A. Before next flight. 6 Q. Mut is it something that having the knowledge that that you did about the summer of '08 incident in Australia where essentially the same problem presented itself, is it something that using your proactive stance— 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed—notwithstanding having to wait arrow and arrow of '08, between the summer of '08 and January of '09— 21 MR. BURT: 22 Q. After March 12th, yes, yes. So then you— 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 3 Q. You get your parts and you— 4 MR. BURT: 4 MR. MARTIN: 5 A. Before next flight. 5 MR. BURT: 5 A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'll Doviously have to respect the opinion of the Chair or the position of the Commissioner, 10 W. Burt: 11 A. Correct, before— 2 MR. MARTIN: 2 MR. MARTIN: 3 Q. You get your parts and you— 4 MR. BURT: 5 A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'm limit an
4 that were involved in it. 5 MA, yand I forget the exact date in May 7 what date in May was that? 8 MR. WILLIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service in with the studs with Sikorsky S-92s. You get - 14 - Mr. Williams is shaking his head. I think is ubastance of that bulletin. You then get an airworthiness directive in March alerting you is to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes, 25 You then you 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 MR. BURT: 27 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 Q. But is it something that having the knowledge that you did about the summer of '08 incident in Australia where essentially the same problem presented itself, is it something that you did about the summer of '08 incident in Australia where essentially the same problem presented itself, is it something that you did about the summer of '08 incident in Australia where essentially the same problem prosented itself, is it something that you did about the summer of '08 incident in Australia where essentially the same problem prosented itself, is it something that you did about the summer of '08 incident in Australia where essentially the same problem prosented itself, is it something that you did about the summer of '08 incident in Australia where essentially the same problem prosented itself, is it something that you did about the summer of '08 incident in Australia where essentially the same problem prosented itself, is it something that you obsenting that you didn's Arrive. 17 MR. BURT: 18 MR. MARTIN: 29 Q. After Mar
5
6 May, and I forget the exact date in May 7 what date in May was that? 8 MR WILLIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, so then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 29 Q. After March 12th, yes, yes. So then you 25 MR. BURT: 20 A. Correct, before 2 MR. MARTIN: 21 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight, 6 MR. MARTIN: 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 But is it something that having the knowledge that you did about the summer of '08 in Australia where essentially the same problem presented itself, is it something that using your proactive stance 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed notwithstanding having to wait around for an alert service bulletin, is it something that you probably could have addressed notwithstanding having to wait around for an alert service bulletin, is it something that you probably could have looked into as the company, Cougar? Knowing what you did in the summer of '08, between the summer of '08 and January of '09 21 MR. BURT: 22 MR. BURT: 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems where essentially the same problems have addressed notwithstanding having to wait around for an alert service bulletin, is it arou
7 that you did about the summer of '08 incident in Australia where essentially the same 9 A. May 18th. 9 problem presented itself, is it something that 10 using your proactive stance 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed notwithstanding having to wait around for an alert service bulletin. You then get an 17 airworthiness directive in March alerting you 18 MR. BURT: 19 MR. BURT: 19 A. After March 12th, yes. 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 18th, is that correct? 25 MR. BURT: 25 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 20 A. Correct, before 2 MR. MARTIN: 29 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 29 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 4 MR. BURT: 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 MR. BURT: 10 MR. BURT: 20 MR. BURT: 21 MR. BURT: 22 MR. BURT: 22 MR. BURT: 23 MR. MARTIN: 3 MR. MARTIN: 4 MR. BURT: 4 MR. BURT: 4 MR. BURT: 5 MR. BURT: 6 MR. MARTIN: 6 MR. MARTIN: 7 MR. BURT: 7 MR. BURT: 8 MR. BURT: 8 MR. BURT: 9 MR. BURT: 9 MR. BURT: 9 MR. BURT: 9 MR. BURT: 10 MR. BURT: 10 MR. BURT: 11 MR. BURT: 12 MR. BURT: 12 MR. BURT: 13 MR. MARTIN: 14 MR. BURT: 15 MR. BURT: 15 MR. BURT: 15 MR. BURT: 16 MR. MARTIN: 17 MR. BURT: 17 MR. BURT: 18 MR. MARTIN: 18 MR. BURT: 19 MR. BURT
8 MR. WILLIAMS: 9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get - 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 20 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 5 A. Before next flight, 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 8 in Australia where essentially the same problem presented itself, is it something that using your proactive stance 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed notwithstanding having to wait 16 around for an alert service bulletin, is it 17 something that you could have looked into as 18 the company, Cougar? Knowing what you did in the summer of '08 and January of '09 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've 25 indicated that you knew about the problems Page 134 1 MR. BURT: 2 MR. BURT: 2 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
9 A. May 18th. 10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 29 MR. BURT: 20 A. After March 12th, yes, yes. So then you 21 MR. BURT: 22 Q. After March 12th, yes, yes. So then you 22 Indicated that you knew about the problems Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Problem presented itself, is it something that 1 using your proactive stance 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed notwithstanding having to wait addressed notwithstanding having to dadressed notwithstanding having to wait addressed notwithstanding having to dadressed
10 MR. MARTIN: 11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get - 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. BURT: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 MR. MARTIN: 20 MR. MARTIN: 21 MR. BURT: 21 MR. BURT: 22 MR. BURT: 23 MR. BURT: 24 A. Correct, before 25 MR. BURT: 26 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 using your proactive stance 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have addressed notwithstanding having to wait around for an alert service bulletin, is it 4 on Something that you could have looked into as addressed notwithstanding having to wait around for an alert service bulletin, is it 4 on Something that you could have looked into as addressed notwithstanding having to wait around for an alert service bulletin, is it 4 on Something that you could have looked into as addressed notwithstanding having to wait around for an alert service bulletin, is it 4 on Something that you could have looked into as addressed notwithstanding having to wait around for an alert service bulletin, is it 4 on Something that you could have looked into as addressed notwithstanding having to wait around for an alert service bulletin, is it 4 on Something that you courdenessed notwithstanding having to addressed notwithstanding having to wait around
11 Q. May 18th. You've already got an alert service 12 bulletin indicating that there's a problem 13 with the studs with Sikorsky S-92s. You get - 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 29 MR. MARTIN: 20 A. Correct, before 20 MR. MARTIN: 21 MR. MARTIN: 22 MR. MARTIN: 23 Q. You get your parts and you 24 MR. BURT: 3 Q. You get your parts and you 25 MR. Burt: 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 11 MR. BURT: 12 A. Yes. 13 MR. MARTIN: 14 Q. Something that you probably could have 15 addressed notwithstanding having to wait 16 around for an alert service bulletin, is it 17 something that you could have looked into as the company, Cougar? Knowing what you did in the summer of '08, between the summer of '08 and January of '09 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 MR. BURT: 29 MR. BURT: 20 A. Generally, yes. 20 MR. MARTIN: 21 MR. BURT: 22 MR. BURT: 23 A. Generally, yes. 24 MR. MRTIN: 25 Q. About the problems that existed with the similar aircraft in Australia? 27 MR. BURT: 38 A. Sure, yes. 39 MR. MARTIN: 40 Problem with study out outled have addressed notwithstanding having to wait around for an alert service bulletin, is it 16 around for an alert service bulletin, is it 17 something that you could have looked into as the company, Cougar? Knowing to wait around
bulletin indicating that there's a problem with the studs with Sikorsky S-92s. You get - 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 18 to the problem with the studs. 19 MR. BURT: 19 the company, Cougar? Knowing what you did in 19 MR. BURT: 19 the summer of '08, between the summer of '08 and January of '09 21 MR. MARTIN: 20 A. After March 12th, yes. 20 and January of '09 21 MR. BURT: 21 MR. BURT: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 MR. MARTIN: 27 MR. BURT: 27 MR. MARTIN: 28 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 20 MR. MARTIN: 20 MR. MARTIN: 21 MR. BURT: 25 MR. BURT: 26 MR. MARTIN: 27 MR. BURT: 27 MR. BURT: 28 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 29 MR. BURT: 29 MR. BURT: 20 MR. MARTIN: 20 MR. MARTIN: 21 MR. BURT: 21 MR. BURT: 21 MR. BURT: 22 MR. BURT: 25 MR. BURT: 26 MR. MARTIN: 27 MR. BURT: 27 MR. BURT: 28 MR. MARTIN: 29 MR. BURT: 29 MR.
with the studs with Sikorsky S-92s. You get - 14 - Mr. Williams is shaking his head. I think 15 that's what Mr. Burt has indicated was the 16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 MR. MARTIN: 29 MR. MARTIN: 20 A. Correct, before 20 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 1 MR. MARTIN: 16 A. Something that you probably could have addressed notwithstanding having to wait addressed notwithstanding havi
- Mr. Williams is shaking his head. I think that's what Mr. Burt has indicated was the substance of that bulletin. You then get an airworthiness directive in March alerting you to the problem with the studs. 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 A. Correct, before 29 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'll obviously have to respect the opinion of the Chair or the position of the Commissioner, 10 Mr. MARTIN: 10 Q. Something that you probably could have addressed notwithstanding having to wait around for an alert service bulletin, is it 16 around for an alert service bulletin, is it 17 something that you could have looked into as something that you could have addressed notwithstanding having to wait around for an alert service bulletin, is it 17 something that you could have looked into as something that you could have looked into as something that you could have looked into as something that you could have looked in the summer of '08, between the summer of '08 and January of '09 24 MR. BURT: 25 MR. BURT: 26 A. I didn't
that's what Mr. Burt has indicated was the substance of that bulletin. You then get an airworthiness directive in March alerting you to the problem with the studs. Is the company, Cougar? Knowing what you did in the summer of '08, between the summer of '08 and January of '09 In MR. MARTIN: Q. After March 12th, yes, yes. So then you presumably you correct that problem before May 18th, is that correct? Range 134 A. Correct, before Page 134 A. Correct, before MR. BURT: A. Correct, before MR. BURT: A. Correct, before MR. BURT: A. Before next flight. A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'll obviously have to respect the opinion of the Chair or the position of the Commissioner, I addressed notwithstanding having to wait around for an alert service bulletin, is it something that you could have looked into as the company, Cougar? Knowing what you did in the summer of '08, between the summer of '08 and January of MR. BURT: A. I didn't do anything in '08. A. I didn't do anything in '08. Bar MARTIN: A. Generally, yes. A. Generally, yes. A. MR. MARTIN: A. Generally, yes. A. MR. MARTIN: A. Generally, yes. A. MR. BURT: A. MR. BURT: A. Generally, yes. A. MR. BURT: A. MR. BURT: A. Generally, yes. A. MR. BURT: A. MR. BURT: A. Sorre, yes. A. Sure, yes. A. Sure, yes. A. Sobetween the summer of '08 and January of
16 substance of that bulletin. You then get an 17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you- 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 A. I didn't do anything in '08. 29 Alfield anything in '08. 20 A. I didn't do anything in '08. 21 MR. MARTIN: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
17 airworthiness directive in March alerting you 18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 1 something that you could have looked into as 18 the company, Cougar? Knowing what you did in 19 the summer of '08, between the summer of '08 and January of '09 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems Page 134 1 generally? 2 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
18 to the problem with the studs. 19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 MR. BURT: 27 Q. I know you didn't, but I think you've indicated that you knew about the problems 28 Page 134 29 Page 134 20 I know you didn't, but I think you've indicated that you knew about the problems 29 MR. BURT: 20 A. I didn't do anything in '08. 20 MR. MARTIN: 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 MR. BURT: 39 Q. You get your parts and you 40 MR. BURT: 40 MR. MARTIN: 50 A. Before next flight. 51 Q. About the problems that existed with the similar aircraft in Australia? 51 MR. BURT: 52 MR. BURT: 53 Q. You get your parts and you 54 MR. MARTIN: 55 A. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'll obviously have to respect the opinion of the Chair or the position of the Commissioner, In the summer of '08 and January of '09 20 MR. BURT: 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 MR. BURT: 29 MR. BURT: 20 A. I didn't do anything in '08. 21 MR. BURT: 21 MR. BURT: 22 M. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 26 MR. MARTIN: 27 MR. BURT: 28 MR. BURT: 29 MR. BURT: 29 MR. BURT: 20 MR. BURT: 20 MR. BURT: 20 MR. BURT: 21 MR. BURT: 22 M. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 27 MR. BURT: 28 MR. BURT: 29 MR. BURT: 30 Q. You get your parts and you 4 MR. BURT: 40 MR. BURT: 41 MR. BURT: 41 MR. BURT: 42 Q. A. I didn't do anything in '08. 42 Q. I
19 MR. BURT: 20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 29 Page 134 1 A. Correct, before 29 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 the summer of '08, between the summer of '08 and January of '09 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 25 MR. BURT: 26 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
20 A. After March 12th, yes. 21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 20 and January of '09 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 24 Q. I know you didn't, but I think you've indicated that you knew about the problems 25 Indicated that you knew about the problems 26 MR. MARTIN: 27 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
21 MR. MARTIN: 22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've 25 indicated that you knew about the problems 24 Q. I know you didn't, but I think you've 25 indicated that you knew about the problems 25 MR. BURT: 26 A. I didn't do anything in '08. 27 MR. MARTIN: 28 A. I didn't do anything in '08. 29 A. I didn't do anything in '08. 20 A. I didn't do anything in '08. 21 MR. BURT: 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've 25 indicated that you knew about the problems 26 MR. BURT: 27 MR. BURT: 28 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
22 Q. After March 12th, yes, yes. So then you 23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 27 MR. BURT: 3 A. Generally, yes. 4 MR. BURT: 4 MR. MARTIN: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 22 A. I didn't do anything in '08. 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've 25 indicated that you knew about the problems 26 MR. MARTIN: 27 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
23 presumably you correct that problem before May 24 18th, is that correct? 25 MR. BURT: 26 Q. I know you didn't, but I think you've 27 indicated that you knew about the problems 28 Page 134 Page 136 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 5 Q. About the problems that existed with the 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 23 MR. MARTIN: 24 Q. I know you didn't, but I think you've indicated that you knew about the problems Page 136 1 generally? 2 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
24
Page 134 Page 134 Page 136 A. Correct, before MR. MARTIN: Q. You get your parts and you MR. BURT: A. Before next flight. MR. MARTIN: Q. Before next flight, yeah, and again I'll ask the question. If I'm forbidden from doing so, I'll obviously have to respect the opinion of the Chair or the position of the Commissioner, I generally? MR. BURT: MR. BURT: MR. MARTIN: Q. About the problems that existed with the similar aircraft in Australia? MR. BURT:
Page 134 1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 1 generally? 2 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
1 A. Correct, before 2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 1 generally? 2 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
2 MR. MARTIN: 3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 2 MR. BURT: 3 A. Generally, yes. 4 MR. MARTIN: 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
3 Q. You get your parts and you 4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 5 Q. About the problems that existed with the 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
4 MR. BURT: 5 A. Before next flight. 6 MR. MARTIN: 5 Q. About the problems that existed with the 6 mainly similar aircraft in Australia? 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
5 A. Before next flight. 6 MR. MARTIN: 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 5 Q. About the problems that existed with the 6 similar aircraft in Australia? 7 MR. BURT: 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
6 MR. MARTIN: 6 similar aircraft in Australia? 7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
7 Q. Before next flight, yeah, and again I'll ask 8 the question. If I'm forbidden from doing so, 9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
the question. If I'm forbidden from doing so, I'll obviously have to respect the opinion of the Chair or the position of the Commissioner, 8 A. Sure, yes. 9 MR. MARTIN: 10 Q. So between the summer of '08 and January of
9 I'll obviously have to respect the opinion of 10 the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
the Chair or the position of the Commissioner, 10 Q. So between the summer of '08 and January of
but was that an expensive repair to that 11 '09, there's talk in the industry that the
particular helicopter in terms of repairing 12 problem in Australia was due to the bolts, but
those studs? 13 do you then have to wait because it goes
14 MR. BURT: 14 back to your safety culture, your proactive,
15 A. I can't say it was I wouldn't categorize it 15 and as a matter of fact, I think you like to
as an expensive repair, no. 16 be generative, I think that's where you strive
17 MR. MARTIN: 17 to be. Could you have been proactive?
18 Q. No, relatively minor repair, would it be fair 18 MR. BURT:
to say in terms of labour that had to be 19 A. Well, the
20 expended and 20 MR. MARTIN:
21 MR. BURT: 21 Q. Knowing what you did about the summer incident
22 A. It was a repair that had a fairly 22 in Australia?
sophisticated repair scheme. You know, any 23 MR. BURT:
time we're touching the main gearbox, I 24 A. What I remember about the incident in '08 was

February 4, 2010	Multi-Page TM	Offshore Helicopter Safety Inquiry
	Page 137	Page 139
1 you know, fairly high level, described	-	Maintenance in maintaining the aircraft in the
2 though it because it was of an unappro		fashion that the manufacturer has stipulated
3 maintenance action. It was an unappro	oved 3	that we do so. It's not an issue of
4 maintenance action, that's why the stu	ıds 4	avoidance, it's certainly not the intent. The
5 broke.	5	intent is for the Maintenance Department to
6 MR. MARTIN:	6	take them and effect the directed maintenance
7 Q. Uh-hm.	7	that the manufacturer has asked to do. Now
8 MR. BURT:	8	you're talking about two different lines here.
9 A. That's what I understood about '08, but a	gain 9 MR. N	MARTIN:
the details of it, that's all our industry		What I'm talking about is the line, what, if
got, so and I believe that's out there in		anything, is communicated to the passengers?
formal records somewhere because that's	all I 12	Like, do they know
heard about '08.	13 MR. E	
14 MR. MARTIN:		The passengers
15 Q. I'm going to go back to a question that -		
told you where this was leading.		Do they know
17 MR. BURT:	17 MR. E	
18 A. Sure.		The passengers do not get the communication of
19 MR. MARTIN:	19	an ASB.
20 Q. And I represent the families of the decea		
21 passengers.		No, I'm not saying they do, but should they
22 MR. BURT:	22	get something from the company because, okay,
23 A. I understand.	23	you get an alert service bulletin in January of '09
24 MR. MARTIN:25 Q. And the outcome for them was devastati	ng and 24 25 MR. E	
	_	
	Page 138	Page 140
1 it'll never be repaired.		Uh-hm.
2 MR. BURT:		MARTIN:
3 A. And I certainly have an appreciation for t		So between January of '09 and March 12th, '09,
4 MR. MARTIN: 5 Q. And I'm just wondering, and it's a ques	tion 4	and I would imagine your records are consistent, and I'm sure they are in terms of
		the passengers that you put aboard your
6 I'm sure that people who are current user 7 future users of the system would want an		aircraft
8 as well, when you get an alert service		
bulletin or when you get an airworthin		Yes, yes.
directive, what if any communication ta		•
place between the company and the user		What, if anything, do they know that the very
end users of the system, the hundreds		helicopter that they were flying on had a
thousands of passengers that you'v		problem with titanium bolts, because that's
transported over your history here in the		what the you've indicated that's what the
15 coast offshore?	15	alert service bulletin was all about. Do you
16 MR. BURT:	16	disclose in your transparent model, in your
17 A. An alert service bulletin is a normal		willingness to involve everyone in your
mechanism in the aviation business, avia		decision making process, what if anything do
wide; fixed wing, rotor wing, globally. It		you tell these people who are your end users,
20 a regular piece of communication that c		the passengers on your helicopters?
out. We've used it for years. It's a part o		
22 a standard part of any manufacturer		When we receive an ASB, it goes to our
procedures. What I'm getting to is that w		Maintenance Department and our responsibility
these ASBs come in, these ASBs don't		and total responsibility is to effect that
communicated, it's a function of ou		directive maintenance as soon as possible.
L		*

February 4, 2010 Mult	1-Page Offshore Helicopter Safety Inquiry
Page 141	Page 143
1 Communications outside of that, again as a	1 maintenance action by the company that was
2 normal function of our business, it's not an	2 operating the aircraft, and, in fact, they
3 issue of hiding anything, it's making sure	3 shouldn't have done that and that problem was
4 that you effect that maintenance as directed,	4 dealt with.
5 you know. This ASB came out, our Maintenance	5 MR. MARTIN:
6 Department looked at it and said we must	6 Q. Okay.
7 effect this repair within a year or 1250	7 MR. BURT:
8 hours, and that was amongst a list of, I	8 A. So a tangible link to, you know, to the fault
9 think, 11 active ASBs that we were working on	9 part would presumptuous and we're not about to
at that time.	go there in our business. We're going to deal
11 MR. MARTIN:	with the facts in the matter. So I want to go
Q. But do you communicate that to your end users?	back and tell you that we have very stringent
I know you, as the	procedures how to handle this, and we have a
14 MR. BURT:	14 contract, we have an obligation to the
15 A. No, we don't communicate our normal level of	taxpayers and the public of Canada through
line maintenance to our passengers. We're	16 Transport Canada to make sure our aircraft is
responsible to make sure that aircraft is	maintained in an airworthy status, and that's
18 airworthy.	what we did.
19 MR. MARTIN:	19 MR. MARTIN:
20 Q. But it's a safety issue.	20 Q. The issue of the integrity of the S-92 in
21 MR. BURT:	21 terms of whether you know, and you can
22 A. It's a safety issue	22 explain what your understanding was of the
23 MR. MARTIN:	summer 2008 incident in Australia, but is the
Q. It's been determined to be a safety issue in	24 airworthiness or the integrity of your S-92s
25 Australia.	something that has been subject to audit in
Page 142	Page 144
1 MR. BURT:	the past, either externally or internally?
2 A. It's a safety issue if you don't comply with	2 MR. BURT:
3 the ASB, if you don't focus on your work, and	3 A. Sure. Our aircraft gets audited by internal
4 you do what we're charged to do by Transport	4 through our QA System on a regular basis. It
5 Canada. We have a great deal of respect for	5 gets audited by Transport Canada. They come
6 our passengers, we always have, and we have a	6 in and look at flight safety and also for the
7 proactive stance in communicating and on March	7 maintenance of the aircraft. On top of that,
8 12th, we took a proactive stance and said	8 we also accommodate our customers who have the
9 we're putting this aircraft on the ground	9 contractual right to come in and audit us and
until we know what to do with it.	our aircraft. Their aviation specialists come
11 MR. MARTIN:	in and they also have full view of ASBs, how
12 Q. Yeah, but it becomes an issue, it becomes a	we apply them, have we done them in a timely
safety issue when a similar incident in the	fashion, that's right on the checklist there,
summer of '08 happens in Australia for the	so they do have overview of that as well.
very same aircraft that you're operating	15 MR. MARTIN:
offshore Newfoundland?	16 Q. Okay. I'm going to move on to a new area of
17 MR. BURT:	17 questioning now and it's the area of
18 A. I'm telling you that the context of the	18 maintenance training because yesterday I
19 accident the incident, actually, in	believe you were asked by Ms. Fagan as to
20 Australia, I told you our knowledge about it.	where would you like to see improvements in
	21 the offshore Newfoundland and Labrador.
21 That incident itself was not communicated as a	
tangible link and an ongoing standing issue by	22 MR. BURT:
tangible link and an ongoing standing issue by the manufacturer or the operator that had the	23 A. Right.
tangible link and an ongoing standing issue by	

Page 145 1 was the —was your desire to see greater 2 regulation of maintenance training. I think 3 you — 4 MR. RURT: 5 A. That's correct. 4 MR. RURT: 5 A. That's correct. 5 A. That's correct. 6 MR. MARTIN: 7 Q. And I assume you're referring to the work 8 that's conducted by your maintenance 9 cengineers? Is that what you're — 10 MR. BURT: 10 MR. BURT: 11 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 16 MR. MARTIN: 17 Q. Uh-hm. 17 W.		uni-Page Offshore Hencopter Safety Inq	<u> </u>
2	Page	45 Page	e 147
3 incident in the summer of '08 – I probably didn't get your answer, or didn't get your answer, was a maintenance related problem? 7 O. And I assume you're referring to the work that's conducted by your maintenance engineers? Is that what you're – 10 MR, BURT: 11 A. What I'm referring to is that there's an 12 absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 15 MR ARTIN: 16 MR MARTIN: 17 Q. Uh-hm. 18 MR, BURT: 19 A. That's what I was referring to. 20 MR MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 22 MR, BURT: 23 MR, BURT: 24 A. It could affect the daily operations of an engineering department, but I want – if you 25 MR, MRARTIN: 3 Q. Sure, no problem. 4 MR, BURT: 3 Q. Sure, no problem. 4 MR, BURT: 5 A. Therally want to cite this as a prime example of of our proactive nature. It's been our or granizations drive for at least two and a half years now, through the unfunded engineering department, but I want – if you propose the output maintenance training program for both in thorough maintenance training manager and the development of a sophisticated, a thing to give the daily operations of an propose of the propose	1 was the was your desire to see greater	1 MR. MARTIN:	
A M.R. RURT:	2 regulation of maintenance training, I think	2 Q. You mentioned, I thought, the Australian	
5 A. That's correct. 6 MR. MARTIN: 8 that's conducted by your maintenance 9 engineers? Is that what you're 10 MR. BURT: 11 A. What I'm referring to is that there's an 12 absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 16 MR. MARTIN: 17 Q. Uh-hm. 18 MR. BURT: 19 A. That's what I was referring to. 20 MR. MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 22 MR. BURT: 23 MR. BURT: 24 A. It could affect the daily operations of 30 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager and the development of a sophisticated, a lithorough maintenance training program for both initial and recurrent, and we've been doing that of our own voltion and out of our own 14 pocket book. So I had that horse to ride when I said, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example, It should be an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 2 problems with your own organization, you just 2 look at the industry in a broader context? 23 MR. BURT: 24 A. I hink for the industry, it would better our 25 MR. MARTIN: 26 Q. So it's not a question that you perceive 2 problems with your own organization, you just 3 look at the industry, it would better our 27 MR. BURT: 28 MR. BURT: 29 Q. So it's not a question that you perceive 2 problems with your own organization, you just 3 look at the industry in a broader context? 29 MR. BURT: 20 Q. So it's not a question that you perceive 2 problems with your own organization, you just 3 look at the industry in a broader context? 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. Right. 25 MR. A	3 you	3 incident in the summer of '08 I probably	
6 MR. MARTIN: 7 Q. And I assume you're referring to the work 8 that's conducted by your maintenance 9 engineers? Is that what you're 10 m.K. BURT: 11 A. What I'm referring to is that there's an 12 absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and 14 representation of the program. 15 recurrent training program. 15 response to a question that Ms. Fagan asked 16 MR. MARTIN: 17 Q. Uh-hm. 18 MR. BURT: 18 A. That's what I was referring to. 19 On the record, and it was in relation to, you 20 MR. MARTIN: 19 A. That's what I was referring to 20 MR. MARTIN: 21 A. It could affect the daily operations of an engineering department, but I want — if you 25 MR. BURT: 28 MR. BURT: 29 MR. BURT: 21 A. It could affect the daily operations of an engineering department, but I want — if you 25 MR. BURT: 28 MR. BURT: 29 MR. BURT: 21 A. It could affect the daily operations of an engineering department, but I want — if you 25 MR. BURT: 28 MR. BURT: 29 MR. BURT: 29 MR. BURT: 21 A. It could affect the daily operations of an engineering department, but I want — if you 25 MR. BURT: 28 MR. BURT: 29 MR. BURT: 29 MR. BURT: 3 MR. B	4 MR. BURT:	4 didn't get your answer, or didn't	
7 MR. BURT: 8 that's conducted by your maintenance engineers? Is that what you're 10 MR, BURT: 10 MR, BURT: 11 A. What I'm referring to is that there's an 12 absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 16 MR. MARTIN: 17 Q. Uh-hm. 18 MR, BURT: 19 A. That's what I was referring to. 20 MR, MARTIN: 21 Q. But it would affect the daily operations of an 22 your maintenance engineers? 23 MR, BURT: 24 A. It could affect the daily operations of an 25 engineering department, but I want if you 26 MR, MARTIN: 3 Q. Sure, no problem. 4 MR, BURT: 3 Q. Sure, no problem. 4 MR, BURT: 4 Maktin's 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 months of our proactive nature. It's been our 15 od, it is part of our proactive culture, and 16 that's why I cited the example. It should be an anitustry standard, not just for us. 19 MR, MARTIN: 20 Q. So i's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 24 MR, MARTIN: 25 MR, BURT: 26 A. I think for the industry, it would better our 27 And the were leaders in volume of aircraft? 28 MR, BURT: 29 Q. So i's not a question that you perceive 21 problems with your own organization, you just 24 A. I think for the industry, it would better our 25 MR, BURT: 26 A. I think for the industry, it would better our	5 A. That's correct.	5 understanding your answer, was a maintenan	ce
8 A. The rumours that we had got was that it was 9 engineers? Is that what you're 10 MR. BURT: 11 A. What I'm referring to is that there's an absence of direction and regulation in 12 absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a questioning again, and again it's in 15 response to a question that Ms. Fagan asked you you you waintenance engineers? 18 both their questions and the answers that are on the record, and it was in relation to, you 20 know, the Commissioner 12 and doing this very important area, where 22 should he look for guidance. 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 25 MR. MARTIN: 26 MR. MARTIN: 27 A Right. 28 MR. BURT: 28 MR. BURT: 29 A Right. 2	6 MR. MARTIN:	6 related problem?	
9 engineers? Is that what you're 10 MR, BURT: 10 assence of direction and regulation in also absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 15 response to a question that Ms. Fagan asked 16 you yesterday, and I think the Commissioner 17 Q. Uh-hm. 15 MR, MARTIN: 18 MR, BURT: 18 both their questions and the answers that are 19 A. That's what I was referring to. 19 on the record, and it was in relation to, you yesterday, and I think the Commissioner 19 A. That's what I was referring to. 19 on the record, and it was in relation to, you wasterday, and I think the office the daily operations of an 12 your maintenance engineers? 12 should affect the daily operations of an 12 engineering department, but I want — if you 12 MR, BURT: 13 MR, BURT: 14 A. I treally want to cite this as a prime example 16 of our proactive nature. It's been our 17 or organizations drive for at least two and a 18 half years now, through the unfunded 19 employment of a maintenance training program for both initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 proactive nature, it's been our 15 and thorough maintenance training program for both initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 proactive nature, it's been our 15 and thorough maintenance training program for both initial and recurrent, and we've been doing 18 that of our own volition and out of our own 19 maintenance training program for both initial and recurrent, and we've been doing 19 not recover and they were leaders in 19 not hat's why I cited the example. It should be the 19 not have a structured required initial and recurrent and that's why I cited the example. It should be 19 not have a structure required initial and recurrent. An out of the place where you consider to be the best, 19 not a sked questions on that, and I believe your — 19 not have you have been doing 19 not h	7 Q. And I assume you're referring to the work	7 MR. BURT:	
10 MR. BURT:	8 that's conducted by your maintenance	8 A. The rumours that we had got was that it was	
11 A. What I'm referring to is that there's an absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and recurrent training program. 15 response to a question that Ms. Fagan asked you yesterday, and I think the Commissioner 17 Q. Uh-hm. 16 you yesterday, and I think the Commissioner 18 MR. Beuri. 18 both their questions and the answers that are on the record, and it was in relation to, you was that are on the record, and it was in relation to, you was the commissioner is writing his report 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 23 MR. Buri. 24 A. It could affect the daily operations of an 25 engineering department, but I want — if you 20 MR. MARTIN: 25 MR. MARTIN: 25 MR. MARTIN: 25 MR. MARTIN: 26 of our proactive nature. It's been our or organizations drive for at least two and a 28 half years now, through the unfunded 29 employment of a maintenance training manager and the development of a sophisticated, a 11 think for the industry standard, not just for us. 19 MR. MARTIN: 19 A. Right. 24 A. I flink for the industry, it would better our 24 MR. MARTIN: 19 A. Yes. 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 24 MR. MARTIN: 25 MR. Burit. 26 MR. MARTIN: 27 MR. Burit. 27 MR. Burit. 28 MR. Burit. 29 MR. MARTIN: 20 Q. And I think for the industry, it would better our 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 MR. Burit. 24 A. I think for the industry, it would better our 24 MR. MARTIN: 29	9 engineers? Is that what you're	9 related to a maintenance unapproved	
12 absence of direction and regulation in 13 Transport Canada that our engineers in Canada 14 have a structured required initial and recurrent training program. 15 response to a question that Ms. Fagan asked 16 MR. MARTIN: 16 you yesterday, and I think the Commissioner 17 Q. Uh-hm. 17 followed up on it as well, and I'll refer to 18 MR. BURT: 18 both their questions and the answers that are 19 A. That's what I was referring to. 19 on the record, and it was in relation to, you 20 MR. MARTN: 20 know, the Commissioner is writing his report 21 and doing this very important area, where 35 MR. BURT: 25 MR. MARTIN: 25 MR. MARTIN: 25 MR. MARTIN: 27 MR. MARTIN: 28 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 20 MR. MARTIN: 21 Q. And I think Ms. Fagan and the Commissioner 24 A. Treally want to cite this as a prime example 26 of our proactive nature. It's been our 27 organizations drive for at least two and a 8 half years now, through the unfunded employment of a maintenance training manager 30 A. Treally want to cite this as a prime example 31 that of our own volition and out of our own organizations drive for at least two and a 4 thorough maintenance training manager 3 A. Treally want to cite this as a prime example 3 that of our own volition and out of our own 3 that of our own volition and out of our own 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It should be 4 that's why I cited the example. It s	10 MR. BURT:	maintenance action related to the filter bowl	
13 Transport Canada that our engineers in Canada 14 have a structured required initial and 15 recurrent training program. 16 MR. MARTIN: 17 Q. Uh-hm. 18 MK. BURT: 19 A. That's what I was referring to. 20 MK. MARTIN: 19 A. That's what I was referring to. 20 MK. MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 22 MR. BURT: 23 MR. BURT: 24 A. It could affect the daily operations of an engineering department, but I want — if you 25 MK. BURT: 26 MR. MARTIN: 27 A. That's what I was referring to. 28 MR. BURT: 29 MR. MARTIN: 20 MR. MARTIN: 21 A. It could affect the daily operations of an engineering department, but I want — if you 29 MR. MARTIN: 30 Q. Sure, no problem. 4 MK. BURT: 4 A. I really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a thorough maintenance training manager and the development of a sophisticated, a that of our own volition and out of our own proactive culture, and that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be that's why I cited the example. It should be the standards, and they were leaders in technology, is that corre	11 A. What I'm referring to is that there's an	11 assembly.	
14 have a structured required initial and 15 recurrent training program. 15 response to a question that Ms. Fagan asked 15 response to a question that Ms. Fagan asked 25 you yesterday, and I think the Commissioner 17 q. Uh-hm. 18 Mk. Burt. 19 A. That's what I was referring to. 19 A. I tould affect the daily operations of 22 your maintenance engineers? 10 A. It could affect the daily operations of an 25 engineering department, but I want if you 16 Mk. MARTIN: 17 A. I tould affect the daily operations of an 25 engineering department, but I want if you 17 A. I then the place where you consider to be the best, 18 half years now, through the unfunded 18 half years now, through the unfunded 29 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 16 that of our own volition and out of our own 17 pocket book. So I had that horse to ride when 16 that's why I cited the example. It should be an industry standard, not just for us. 19 Mk. MARTIN: 19 A. Yes. 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 14 Mk. Burt: 23 Mk. Burt: 23 Mk. Burt: 23 Mk. Burt: 24 A. Ithink for the industry, it would better our 15 Mk. Burt: 25 Mk. Burt: 26 Mk. MARTIN: 27 Mk. Burt: 27 Mk. Burt: 27 Mk. Burt: 28 Mk. Burt: 29 Mk. ARTIN: 29 Mk. ARTIN: 20 Mk. MARTIN: 20 Mk. MARTIN: 20 Mk. MARTIN: 21 Mk. MARTIN: 21 Mk. MARTIN: 22 Mk. Burt: 23 Mk. Burt: 23 Mk. Burt: 24 Mk. Burt: 25 Mk. Burt: 26 Mk. MARTIN: 27 Mk. Burt: 27 Mk. Burt: 28 Mk. Burt: 29 Mk.	absence of direction and regulation in	12 MR. MARTIN:	
15 response to a question that Ms. Fagan asked 16 MR. MARTIN: 17 Q. Uh-hm. 18 MR. BURT: 19 A. That's what I was referring to. 20 MR. MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 23 MR. BURT: 24 A. It could affect the daily operations of an 25 engineering department, but I want if you 26 MR. MARTIN: 27 A. Would allow me 27 MR. MARTIN: 28 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and doing this very important area, where 24 A. Right. 25 MR. MARTIN: 26 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and doing this very important area, where 24 A. Right. 25 MR. MARTIN: 26 A. Page 148 27 A. BuRT: 28 A. That's soft of the look for guidance. 29 MR. MARTIN: 20 Q. And I think Mc. Commissioner 20 MR. MARTIN: 21 Q. And I think Mc. Fagan and the answers that are 22 on the record, and the answers that are 23 on the record, and the answers that are 24 a. Right. 25 MR. MARTIN: 26 A. Right. 27 A. Right. 28 A. Trails want to cite this as a prime example 29 and doing this very important area, where 20 A. Right. 20 Q. And I think Mc. Fagan and the Commissioner 21 and doing this very important area, where 22 should be look for guidance. 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 25 MR. MARTIN: 26 A. Trails want to cite this as a prime example 27 A. Right. 28 A. Right. 29 A. Right. 30 Q. And I believe you said they were leaders in 31 the form of our proactive culture, and 32 A. Right. 33 A. Right. 34 A. Right. 35 A. Trails correct, and they were leaders in 36 A. Trails correct, and they were leaders in 37 A. Yes. 38 A. Right. 39 A. Yes. 30 A. Right. 30 A. Pight. 30 A. Pight	13 Transport Canada that our engineers in Canada	13 Q. Okay. I'm just going to proceed to a new line	2
16 MR. MARTIN: 17 Q. Uh-hm. 18 MR. BURT: 18 MR. BURT: 19 A. That's what I was referring to. 20 MR. MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 22 MR. BURT: 24 A. It could affect the daily operations of 35 engineering department, but I want if you 25 MR. BURT: 26 A. It could affect the daily operations of 37 MR. BURT: 27 A. It could affect the daily operations of 38 MR. BURT: 28 MR. BURT: 29 MR. MARTIN: 20 MR. MARTIN: 21 Q. And I think Ms. Fagan and the Commissioner 38 MR. BURT: 21 A. It could allow me 32 MR. MARTIN: 22 MR. MARTIN: 23 MR. BURT: 24 A. It could allow me 32 MR. MARTIN: 25 MR. MARTIN: 26 MR. MARTIN: 27 MR. MARTIN: 28 MR. MARTIN: 29 MR. MARTIN: 29 MR. MARTIN: 20 MR. MARTIN: 20 MR. MARTIN: 21 Q. So it's not a question that you perceive 31 MR. MARTIN: 21 Q. O, So it's not a question that you perceive 32 MR. BURT: 22 MR. MARTIN: 23 MR. BURT: 24 A. Ithink for the industry, it would better our 29 MR. MARTIN: 20 MR. MARTIN: 21 Q. That's correct, and they were leaders in standards, and they were leaders in volume of aircraft? 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. Right. 25 A. Treally want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a sophisticated, a not the development of a sophisticated, a not thorough maintenance training manager in thorough maintenance training manager in thorough maintenance training program for both initial and recurrent, and we've been doing in the development of a sophisticated, a not the development of a sophisticated, and the development of a sophisticated, and the development	14 have a structured required initial and	of questioning again, and again it's in	
17 Q. Uh-hm. 18 MR_BURT: 19 A. That's what I was referring to. 20 MR_MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 22 your maintenance engineers? 23 MR_BURT: 24 A. It could affect the daily operations of an engineering department, but I want if you Page 146 1 would allow me 2 MR_MARTIN: 2 A. It really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a thorough maintenance training program for both initial and recurrent, and we've been doing that of our own volition and out of our own pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to do, it is part of our proactive culture, and 17 that's why I cited the example. It should be an industry standard, not just for us. 21 gook at the industry in a broader context? 22 MR_BURT: 23 MR_BURT: 24 A. That's what I was referring to. 25 who, whe Commissioner is writing his report and doing this very important area, where should be hook for guidance. 25 MR_BURT: 24 A. Right. 25 MR_MARTIN: 25 MR_MARTIN: 26 Q. Sor it is not a question that you perceive problems with your own organization, you just 22 look at the industry, it would better our 27 That's correct, and they were leaders in volume of aircraft? 28 MR_BURT: 29 MR_MARTIN: 20 Q. So it's not a question that you perceive problems with your own organization, you just 20 MR_MARTIN: 21 Q. And I believe you said they were leaders in volume of aircraft? 22 MR_BURT: 23 MR_BURT: 24 A. Right. 25 MR_MARTIN: 25 MR_MARTIN: 26 A. A Right. 26 A. Right. 26 A. Right. 27 A. Right. 28 A. Right. 29 A. A Right. 29 A. A Right. 29 A. A Right. 20 A. A Right. 20 A. A Right. 21 A. Right. 24 A. Right. 25 MR_MARTIN: 20 A. A Right. 24 A. Right. 25 MR_MARTIN: 26 A. That's correct, and they were leaders in technology, is that correct? 28 MR_BURT: 29 A. Yes. 20 MR_MARTIN: 2	recurrent training program.	response to a question that Ms. Fagan asked	
18 MR. BURT: 19 A. That's what I was referring to. 20 MR. MARTIN: 21 Q. But it would affect the daily operations of 21 and doing this very important area, where 22 your maintenance engineers? 23 MR. BURT: 24 A. It could affect the daily operations of an 25 engineering department, but I want — if you Page 146 1 would allow me 2 MR. MARTIN: 2 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example of of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a thorough maintenance training program for both initial and recurrent, and we've been doing 13 that of our own volition and out of our own pocket book. So I had that horse to ride when 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to do, it is part of our proactive culture, and 17 that's why I cited the example. It should be an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive problems with your own organization, you just 21 Look at the industry in a broader context? 21 MR. BURT: 22 MR. MARTIN: 23 MR. BURT: 24 A. It could affect the daily operations of an doing this very important area, where should he look for guidance. 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 25 MR. MARTIN: 26 Q. And I think Ms. Fagan and the Commissioner and the power of the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? 7 MR. BURT: 8 A. That's correct, and they were leaders in technology, is that correct? 11 regulation? 12 MR. MARTIN: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in technology, is that correct? 18 MR. BURT: 29 MR. MARTIN: 20 Q. So it's not a question that you perceive problems with your own organization, you just 2 look at the industry in a broader context? 22 MR. BURT: 23 MR. BURT: 24 A.	16 MR. MARTIN:	you yesterday, and I think the Commissione	r
19 A. That's what I was referring to. 20 MR. MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 23 MR. BURT: 24 A. It could affect the daily operations of an 25 engineering department, but I want if you 26 MR. MARTIN: 27 A. It could allow me 2 MR. MARTIN: 28 MR. MARTIN: 29 And I think Ms. Fagan and the Commissioner asked questions on that, and I believe your 4 the most logical place to look, would be the 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context' 24 A. Right. 25 MR. BURT: 26 A. Right. 27 A. Ithink for the industry, it would better our 28 MR. MARTIN: 29 O. So it's not a question that you perceive 29 problems with your own organization, you just 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context' 23 MR. BURT: 24 A. Ithink for the industry, it would better our	17 Q. Uh-hm.	followed up on it as well, and I'll refer to	
20 MR. MARTIN: 21 Q. But it would affect the daily operations of 22 your maintenance engineers? 23 MR. BURT: 24 A. It could affect the daily operations of an 25 engineering department, but I want if you Page 146 1 would allow me 2 MR. MARTIN: 2 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both initial and recurrent, and we've been doing 13 that of our own volition and out of our own pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 24 MR. MURTIN: 25 MR. BURT: 26 know, the Commissioner is writing his report and doing this very important area, where should be look for guidance. 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 29 Q. And I think Ms. Fagan and the Commissioner is worlting his report and doing this very important area, where should be look for guidance. 23 MR. BURT: 24 A. Right. 25 MR. BURT: 26 A. A. Right. 27 Q. And I think Ms. Fagan and the Commissioner is writing his report and doing this very important area, where should be look hord paid and beloek for guidance. 23 MR. BURT: 24 A. Right. 25 MR. DURT: 26 A. Traul I think Ms. Fagan and the Commissioner is writing his report and doing than that MR. MaRTIN: 27 Q. And I think Ms. Fagan and the Commissioner is writing his report and the MR. Martin. 28 MR. BURT: 29 A. Traul I have the doing the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experie	18 MR. BURT:	both their questions and the answers that are	
21 Q. But it would affect the daily operations of 22 your maintenance engineers? 23 MR. BURT: 24 A. It could affect the daily operations of an 25 engineering department, but I want if you Page 146 1 would allow me 2 MR. MARTIN: 2 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 21 A. Right. 22 A. Right. 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 26 And I think Ms. Fagan and the Commissioner 27 asked questions on that, and I believe your 3 the place where you consider to be the best, 4 the most logical place to look, would be the 5 North Sea, and in particular, the Norway 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our 25 MR. BURT: 26 A. I trink for the industry, it would better our	19 A. That's what I was referring to.	on the record, and it was in relation to, you	
22 your maintenance engineers? 23 MR. BURT: 24 A. It could affect the daily operations of an engineering department, but I want if you Page 146 1 would allow me 2 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a linitial and recurrent, and we've been doing that of our own volition and out of our own land that horse to ride when Is I said, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example. It should be an industry standard, not just for us. 9 Q. So it's not a question that you perceive 21 look at the industry, it would better our 22 should he look for guidance. 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 25 MR. MARTIN: 26 A. A. Right. 26 A. A. Right. 27 MR. BURT: 28 MR. BURT: 29 A. A. Right. 29 A. A. Right. 29 A. A. Right. 20 A. A. Right. 20 A. A. Right. 21 Q. And I think Ms. Fagan and the Commissioner asked questions on that, and I believe your 3 the place where you consider to be the best, 4 the most logical place to look, would be the Poor would be the most logical place to look, would be the Norway experience, is that correct? 7 MR. BURT: 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in regulation? 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN: 24 A. I think for the industry, it would better our	20 MR. MARTIN:	know, the Commissioner is writing his repor	t
23 MR. BURT: 24 A. It could affect the daily operations of an engineering department, but I want if you Page 146 1 would allow me 2 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 23 MR. BURT: 24 A. Right. 25 MR. MARTIN: 26 Q. And I think Ms. Fagan and the Commissioner asked questions on that, and I believe your aked questions on that, and I believe your on saked questions on that, and I believe your on saked questions on that, and I believe your on saked questions on that, and I believe your aked questions on that, and I believe your of aked the memost logical place to look, wold be the borth beautifue of the beat, the mos	21 Q. But it would affect the daily operations of	and doing this very important area, where	
24 A. It could affect the daily operations of an engineering department, but I want — if you Page 146 1 would allow me — 2 MR. MARTIN: 2 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 24 A. Right. 25 MR. MARTIN: 26 And I think Ms. Fagan and the Commissioner 27 asked questions on that, and I believe your — 28 Asked questions on that, and I believe your — 3 the place where you consider to be the best, the most logical place to look, would be the 26 experience, is that correct? 27 MR. BURT: 28 A. That's correct, yes. 29 MR. MARTIN: 30 Q. And I believe you said they were leaders in 31 the most logical place to look, would be the 32 MR. BURT: 33 A. Right. 34 A. That's correct, yes. 35 MR. BURT: 36 A. That's correct, yes. 36 MR. MARTIN: 37 MR. BURT: 38 A. That's correct, yes. 39 MR. MARTIN: 39 A. Yes. 30 MR. MARTIN: 30 Q. And I believe you said they were leaders in 31 technology, is that correct? 31 A. Right. 32 A. Yes. 33 MR. BURT: 34 A. Ithink for the industry, it would better our 35 A. Right. 36 A. Right. 37 A. Right. 38 A. Right. 39 A. Right. 30 A. Right. 30 A. Right. 31 A. Right. 30 A. Right. 31 A. Right. 31 A. Right. 31 A. Right. 31 A. Right. 32 A. Right. 32 A. Yes. 33 A. Right. 34 A. Right. 35 A. Right. 36 A. Right. 37 A. Right. 38 A	your maintenance engineers?	should he look for guidance.	
25 engineering department, but I want if you Page 146 Page 146 1 would allow me 2 MR. MARTIN: 2 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 A. I think for the industry, it would better our 25 MR. MARTIN: 26 A. I think for the industry, it would better our 26 And I think Ms. Fagan and the Commissioner 27 asked questions on that, and I believe your 28 the place where you consider to be the best, 4 the most logical place to look, would be the 5 North Sea, and in particular, the Norway 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, yes. 16 MR. BURT: 18 A. That's correct, yes. 19 MR. BURT: 19 A. Yes. 20 MR. BURT: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our 25 MR. BURT: 26 MR. MARTIN: 27 MR. BURT: 28 A. That's correct, yes. 29 MR. MARTIN: 29 MR. BURT: 20 Q. And I think MS. Fagan and the Commissioner 20 And I believe you conide to book, would be the overprince, is that correct? 29 MR. BURT: 20 Q. And I think MS. Fagan and the Commissioner 20 And I believe you said they were leaders in 29 MR. BURT: 20 Q. And I think MS. Tan' I	23 MR. BURT:	23 MR. BURT:	
Page 146 Would allow me William	24 A. It could affect the daily operations of an	24 A. Right.	
1 would allow me 2 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 2 MR. BURT: 2 MR. BURT: 3 the most logical place to look, would be the best, 4 the most logical place to look, would be the host logical place to look, would be the host logical place to look, would be the 5 North Sea, and in particular, the Norway 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our 24 MR. MARTIN: 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 A. That's correct, yes. 9 MR. MARTIN: 29 Q. And I believe you said they were leaders in 11 regulation? 12 LMR. BURT: 12 MR. BURT: 20 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 12 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 12 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 22 Q. That's correct, and they were lea	engineering department, but I want if you	25 MR. MARTIN:	
1 would allow me 2 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 2 MR. BURT: 2 MR. BURT: 3 the most logical place to look, would be the best, 4 the most logical place to look, would be the host logical place to look, would be the host logical place to look, would be the 5 North Sea, and in particular, the Norway 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our 24 MR. MARTIN: 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 A. That's correct, yes. 9 MR. MARTIN: 29 Q. And I believe you said they were leaders in 11 regulation? 12 LMR. BURT: 12 MR. BURT: 20 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 12 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 12 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 22 Q. That's correct, and they were lea	Page	46 Page	e 148
2 MR. MARTIN: 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 2 asked questions on that, and I believe your 3 the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 19 MR. MARTIN: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our			
3 the place where you consider to be the best, 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry, it would better our 3 the place where you consider to be the best, 4 the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our 24 MR. MARTIN:			
4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 4 the most logical place to look, would be the 5 North Sea, and in particular, the Norway 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	2 MR. MARTIN:	2 asked questions on that, and I believe your	
of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a ninitial and recurrent, and we've been doing that of our own volition and out of our own pocket book. So I had that horse to ride when Is a said, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example. It should be an industry standard, not just for us. 19 MR. MARTIN: 19 MR. MARTIN: 19 MR. MARTIN: 19 MR. MARTIN: 19 Q. So it's not a question that you perceive problems with your own organization, you just look at the industry, it would better our 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in regulation? 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in technology, is that correct? 16 standards, and they were leaders in technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. BURT: 24 MR. MARTIN:		-	
of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a ninitial and recurrent, and we've been doing that of our own volition and out of our own pocket book. So I had that horse to ride when Is a said, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example. It should be an industry standard, not just for us. 19 MR. MARTIN: 19 MR. MARTIN: 19 MR. MARTIN: 19 MR. MARTIN: 19 Q. So it's not a question that you perceive problems with your own organization, you just look at the industry, it would better our 6 experience, is that correct? 7 MR. BURT: 8 A. That's correct, yes. 9 MR. MARTIN: 10 Q. And I believe you said they were leaders in regulation? 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in technology, is that correct? 16 standards, and they were leaders in technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. BURT: 24 MR. MARTIN:	3 Q. Sure, no problem.	3 the place where you consider to be the best,	
half years now, through the unfunded employment of a maintenance training manager and the development of a sophisticated, a thorough maintenance training program for both initial and recurrent, and we've been doing that of our own volition and out of our own that of our own volition and out of our own Is aid, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example. It should be an industry standard, not just for us. MR. MARTIN: MR. MARTIN: MR. BURT: MR. BURT: MR. BURT: MR. BURT: MR. BURT: MR. MARTIN: MR. BURT: MR. MARTIN: MR. MARTIN: MR. MARTIN: MR. BURT: MR. B	3 Q. Sure, no problem. 4 MR. BURT:	the place where you consider to be the best, the most logical place to look, would be the	
9 employment of a maintenance training manager 10 and the development of a sophisticated, a 11 thorough maintenance training program for both 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 19 MR. MARTIN: 19 MR. MARTIN: 19 A. Yes. 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 29 MR. MARTIN: 20 Q. And I believe you said they were leaders in 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway	
and the development of a sophisticated, a thorough maintenance training program for both initial and recurrent, and we've been doing that of our own volition and out of our own pocket book. So I had that horse to ride when Is I said, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example. It should be Is an industry standard, not just for us. 10 Q. And I believe you said they were leaders in regulation? 11 regulation? 12 MR. BURT: 13 A. Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? 18 MR. BURT: 19 MR. MARTIN: 19 A. Yes. 20 Q. So it's not a question that you perceive problems with your own organization, you just look at the industry in a broader context? 21 Q. And they were leaders in technology, is that correct? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our	 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct?	
thorough maintenance training program for both initial and recurrent, and we've been doing that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that our own volition and out of our own that our own is a Right. 14 MR. MARTIN: 15 Q. That's correct, and they were leaders in that's why I cited the example. It should be to technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 MR. MARTIN: 21 problems with your own organization, you just problems with your own organization, you just look at the industry in a broader context? 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our	 3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct?	
initial and recurrent, and we've been doing that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own that of our own volition and out of our own that of our	 Q. Sure, no problem. MR. BURT: A. I really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes.	
that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our own volition and out of our own that of our proactive to ride when that of our proactive that of our proactive culture, and that of our own volition and out of our own that of our own that of our own out of our own that hat of our own that hat of our own that of our own that hat horse to ride when that MR. MARTIN: That of our own that hat of our own that hat horse to ride when that MR. MARTIN: That our out	 Q. Sure, no problem. MR. BURT: A. I really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manag 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN:	
14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 19 MR. MARTIN: 19 Q. That's correct, and they were leaders in 16 standards, and they were leaders in 17 technology, is that correct? 18 MR. BURT: 19 A. Yes. 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 24 MR. MARTIN: 25 MR. MR. MARTIN: 26 MR. MARTIN: 27 MR. BURT: 28 MR. BURT: 29 MR. MARTIN: 20 MR. MARTIN: 20 MR. MARTIN: 21 MR. MARTIN: 22 MR. BURT: 23 MR. BURT: 24 MR. MARTIN:	 Q. Sure, no problem. 4 MR. BURT: A. I really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manag and the development of a sophisticated, a 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in	
Is said, you know, this is the right thing to do, it is part of our proactive culture, and that's why I cited the example. It should be an industry standard, not just for us. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? MR. BURT: MR. BURT: MR. MARTIN: MR. MARTIN: MR. MARTIN: MR. MARTIN: MR. MARTIN: MR. BURT: MR. MARTIN: MR. BURT: MR. BURT: MR. BURT: MR. MARTIN: MR. BURT: MR. BURT: MR. BURT: MR. BURT: MR. MARTIN: MR. BURT:	 Q. Sure, no problem. 4 MR. BURT: A. I really want to cite this as a prime example of our proactive nature. It's been our organizations drive for at least two and a half years now, through the unfunded employment of a maintenance training manag and the development of a sophisticated, a thorough maintenance training program for bo 	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation?	
do, it is part of our proactive culture, and that's why I cited the example. It should be an industry standard, not just for us. 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive problems with your own organization, you just look at the industry in a broader context? 21 MR. BURT: 22 MR. BURT: 23 MR. BURT: 24 A. I think for the industry, it would better our 16 standards, and they were leaders in technology, is that correct? 18 MR. BURT: 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT:	
that's why I cited the example. It should be an industry standard, not just for us. 19 MR. MARTIN: 19 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 17 technology, is that correct? 18 MR. BURT: 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right.	
18 an industry standard, not just for us. 19 MR. MARTIN: 19 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 25 MR. BURT: 26 MR. BURT: 27 MR. BURT: 28 MR. BURT: 29 MR. BURT: 20 MR. BURT: 20 MR. BURT: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN:	
19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 29 MR. MARTIN: 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in	
20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 20 MR. MARTIN: 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in	
problems with your own organization, you just look at the industry in a broader context? MR. BURT: A. I think for the industry, it would better our 21 Q. And they were leaders in volume of aircraft? 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct?	
22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our 22 MR. BURT: 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN:	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct?	
23 MR. BURT: 24 A. I think for the industry, it would better our 23 A. Right. 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: C. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? MR. BURT: A. Yes.	
24 A. I think for the industry, it would better our 24 MR. MARTIN:	3 Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? MR. BURT: MR. BURT: A. Yes. MR. BURT:	
	Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context?	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? MR. BURT: MR. BURT: A. Yes. MR. MARTIN: Q. And they were leaders in volume of aircraft?	
25 industry as a whole. 25 Q. And I'm well, that's that's where my	Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context?	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. A. Right. MR. MARTIN: C. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? MR. BURT: A. Yes. MR. BURT: Q. And they were leaders in volume of aircraft? Q. And they were leaders in volume of aircraft?	
1 · · · · · · · · · · · · · · · · · · ·	Q. Sure, no problem. 4 MR. BURT: 5 A. I really want to cite this as a prime example 6 of our proactive nature. It's been our 7 organizations drive for at least two and a 8 half years now, through the unfunded 9 employment of a maintenance training manag 10 and the development of a sophisticated, a 11 thorough maintenance training program for bo 12 initial and recurrent, and we've been doing 13 that of our own volition and out of our own 14 pocket book. So I had that horse to ride when 15 I said, you know, this is the right thing to 16 do, it is part of our proactive culture, and 17 that's why I cited the example. It should be 18 an industry standard, not just for us. 19 MR. MARTIN: 20 Q. So it's not a question that you perceive 21 problems with your own organization, you just 22 look at the industry in a broader context? 23 MR. BURT: 24 A. I think for the industry, it would better our	the place where you consider to be the best, the most logical place to look, would be the North Sea, and in particular, the Norway experience, is that correct? MR. BURT: A. That's correct, yes. MR. MARTIN: Q. And I believe you said they were leaders in regulation? MR. BURT: A. Right. MR. MARTIN: Q. That's correct, and they were leaders in standards, and they were leaders in technology, is that correct? MR. BURT: A. Yes. MR. MARTIN: Q. And they were leaders in volume of aircraft? MR. BURT: A. Yes. MR. BURT: A. Right. MR. BURT: A. Right.	

February 4, 2010	Multi-I	Page Modern Offshore Helicopter Safety Inquiry
Page	e 149	Page 151
1 question is going.		vis Norway?
2 MR. BURT:		2 MR. BURT:
3 A. Sure.		A. Well, I'm glad to have an opportunity to
4 MR. MARTIN:		clarify that because I think it's important.
5 Q. Because it invoked the question of the		What I meant by that is that the North Sea has
6 Commissioner and the Commissioner asked -		been actively flying in production oil fields
7 put forward the general perception of the		for in excess of 35 years. They have certain
operators that, and I don't want to misquote		centres, such as Aberdeen, and Bergen, and
9 the the Commissioner said, the operators		Stavanger, Norway, where there's in some cases
are of the view that they're among the most		
highly, if not the most highly regulated	1	
industry in the offshore.	12	
13 MR. BURT:	1.	
14 A. Uh-hm.	1.	
15 MR. MARTIN:	1:	
	1.	
16 Q. And you recall that question? 17 MR. BURT:	10	1.01
1	1	
	13	· ·
19 MR. MARTIN:	19	*
Q. And at that time you indicated and paid you		· · · · · · · · · · · · · · · · · · ·
know, referred to the C-NLOPB in this case as		
perhaps being the leader and perhaps	22	
contributing to where we are with safety on		
24 the east coast.	24	, 11
25 MR. BURT:	2:	organization. So that's the depth of what I
Page	e 150	Page 152
1 A. That's correct.		was trying to communicate.
2 MR. MARTIN:	1	2 MR. MARTIN:
3 Q. Okay. What I'm getting at, and I'm really	1	Q. In terms of meeting the bell, now that leads
4 just maybe the volume of aircraft, maybe		me to my second question, and it's on response
5 you didn't want to put that in the context of		5 times.
6 your answer, I'm not sure, because that's	(6 MR. BURT:
7 where I'm going with this because the volum	ne '	7 A. Right.
8 of aircraft does generate some questions from	1 E	8 MR. MARTIN:
9 my perspective.		Q. And you were asked a question by Ms. Fagan,
10 MR. BURT:	10	and correct me if I'm wrong in characterizing
11 A. Sure.	1	the answer that you gave her, is that, you
12 MR. MARTIN:	12	
Q. And, you know, is the volume of aircraft	13	
issue, do you think the operator should have		
more than one aircraft dedicated to the	1:	· · · · · · · · · · · · · · · · · · ·
offshore? What were you because there's		
another line of questioning I'm going to go		7 MR. BURT:
with in a minute, but what were you saying? I		
don't think you elaborated on it too much, bu	I .	9 MR. MARTIN:
20	20	
21 MR. BURT:		1 MR. BURT:
1	1=	I

24

25

23 MR. MARTIN:

A. Yeah, that's right.

Q. And you did pay some compliments to the Board,

the C-NLOPB, for promoting safety issues in

Q. It's certainly an area that you wanted the

Commissioner in this Inquiry to look at vis a

22

24

25

A. Yeah, I --

23 MR. MARTIN:

February 4, 2010	Multi-Pag	ge TM Offshore Helicopter Safety Inquiry
	Page 153	Page 155
the offshore. You recall your evidence	-	There's nowhere near close to the regulation
that.	2	that provides us a level playing field and a
3 MR. BURT:	3	nominal start point that is representative, in
4 A. Right.	4	my opinion, of a safe working environment.
5 MR. MARTIN:	5	It's just the risk here is more managed in
6 Q. Now put simply, if the operators and N		some aspects. There is no regulatory board in
7 Earle was getting at this this morning, ar		the Gulf of Mexico that has decided to put in
8 I'm just really following up on his question		a dedicated search and rescue service. It is
		the oil companies that have done that, and
		they continue to lead in this aspect more than
1		•
11 you say exists elsewhere	11	any other entity, to be quite honest.
12 MR. BURT:		MR. MARTIN:
13 A. Yes.	13	Q. Now you brought up I'm going to close on
14 MR. MARTIN:	14	this, you brought up the Norwegian experience,
15 Q. From your experience in the offshore, is to		and I think you said they're a leader in
something that the Board, looking after t		regulation or a leader in standards and what
overall safety interest of the passengers,		not?
could ask the operators to do as part of the	eir 18 M	MR. BURT:
19 operations contract?	19	A. Yes, yes.
20 MR. BURT:	20 M	MR. MARTIN:
21 A. I would imagine on a continuous improv	vement 21	Q. And I've asked this question of other
basis, you know, there's all kinds of optio	ons, 22	witnesses. I'm just following up on the
but I can't really speak to the Board.	23	testimony of a previous presenter to this
24 MR. MARTIN:	24	Inquiry, Lorraine Michael, in particular,
25 Q. I know you can't speak for the Board, but	t you 25	where she is advocating for a Norwegian style
	Page 154	Page 156
spoke of the experience in Norway	1	board to regulate the offshore that's
2 MR. BURT:	2	independent of government and independent of
3 A. Yes.	3	the companies. I'm assuming that when you
4 MR. MARTIN:	4	spoke of the Norwegian experience that you
5 Q. You spoke of the and you paid complin		think so highly of, that you've thought that
to the Board for promoting safety issues		the Norwegian experience and that you come
the offshore. If responding quicker is in t		here with some experience on it.
best interest of the passengers, and the Bo		MR. BURT:
9 is the regulator, is that something that the		
Board could encourage or require the com		A. They were part of the aggregate comment when I said the quality of the North Sea.
	^	
-		MR. MARTIN:
offshore, based on your experience,		Q. Yes. Do you have any comments, do you have an
considerable experience in the offshore?		opinion, personal or otherwise, on how
14 not asking you to	14	effective the Norwegian Board is, if we accept
15 MR. BURT:	15	the facts as presented by Ms. Michael that
16 A. I think that's a great thing that the Board		they're independent of government and
should take and take upon consideration u		independent of the operators, how from your
their mandate and look at that, and I thin		experience, how effective is that Board in
there's always an evolution. What I'r		regulating the offshore in Norway, and I know
referring to at the Board is the proactive		that's a broad question, but
stance and number of things, such as, y		MR. BURT:
22 know, looking for things like exterior life		A. Again I'll just go back to my comment, and I
rafts and standard equipment that we've l		stand by it, that the Norwegian and the UK,
and let me tell you about the other areas the		and again remember the UK centres
25 we operate, such as the Gulf of Mexic	co. 25 M	MR. MARTIN:

	onshore mencopter sarety inquiry
Page	157 Page 159
1 Q. Yes.	1 MS. O'BRIEN:
2 MR. BURT:	2 Q. I'm going to start with the issue of the
3 A. I think they have an effective regulatory and	3 external oxygen tank for the pilots, what
4 a very mature, as I say, regulatory regime,	4 you're calling HEEDS.
5 which has had the opportunity to evolve and	5 MR. BURT:
6 progress over the years into the entity it is	6 A. Yes.
7 today. Again the reason why I didn't jump	7 MS. O'BRIEN:
8 here necessarily, because I think we do things	8 Q. Distinguishing it a bit from the HUEBA device
9 here in many ways better than many other	9 that's currently being used by the passengers.
entities do, and again I don't want to forget	I understood from your direct evidence that
the fact that I think, you know, what we do	this device is that the pilots are not yet
here is also very proactive, it is also quite	using, they're going to be using it very soon,
industry leading, and it's largely based on	is that correct?
the fact of where we fly. We fly in a harsh	14 MR. BURT:
environment and a lot of things like rotor	15 A. As of the 8th of this month, yes.
craft ice protection, we've led the industry	16 MS. O'BRIEN:
in that end. When it comes to operating in	17 Q. I'd like to talk get you to address a bit
harsh weather and low weather operating	when you first decided to explore putting this
19 conditions, we've led there, but I still say	piece of safety equipment in for your flight
and give homage to the North Sea as a very	20 crews?
21 mature well evolved entity, and I don't	21 MR. BURT:
22 apologize for that.	22 A. So if you would allow me, I know that Mr.
23 MR. MARTIN:	Banks was involved in the whole HUEBA
24 Q. Okay. Those are my questions. Thank you very	evaluation, and then brought that through,
25 much, gentlemen. Thank you, Mr. Commissioner.	even through ours, so if I could allow Mr.
Page	
1 COMMISSIONER:	Banks to answer that.
2 Q. Thank you, Mr. Martin. Now Ms. O'Brien, for	2 MR. BANKS:
3 the estates of the pilots.	3 A. Okay, yes, originally I was on the HUEBA Task
4 MR. RICHARD BANKS, MR. RICK BURT, MR. HANK WILLIAMS:	
5 EXAMINATION BY MS. O'BRIEN:	from CHC in Halifax, their safety officer, and
6 MS. O'BRIEN:	as we progressed and assisted in that program,
7 Q. Thank you. As I said earlier today, I'm here	7 we fundamentally agreed that our air crew
8 today representing the estates of Matt Davis,	8 needed such a bottle, such air supply, and
9 who was captain of Flight 491, and the estate	9 from past history of our company with our
of Timothy Lanouette, who was the first	110 receip encorpliste mornes the come type of
1	rescue specialists wearing the same type of
officer, and I represent Mr. Lanouette's	11 HEEDS in the back for a number of years, it
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I	HEEDS in the back for a number of years, it was decided in our eyes that that could be an
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis.	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family that Matt Davis loved what he did, he loved	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to another level to see who actually
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family that Matt Davis loved what he did, he loved being a pilot, and he was a happy member of	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to another level to see who actually manufactures, the approvals, the dangerous
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family that Matt Davis loved what he did, he loved being a pilot, and he was a happy member of your company. That being said, I still have a	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to another level to see who actually manufactures, the approvals, the dangerous good issues through Transport Canada, and
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family that Matt Davis loved what he did, he loved being a pilot, and he was a happy member of your company. That being said, I still have a number of questions that I want to ask and	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to another level to see who actually manufactures, the approvals, the dangerous good issues through Transport Canada, and having that summed up, completed, then we were
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family that Matt Davis loved what he did, he loved being a pilot, and he was a happy member of your company. That being said, I still have a	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to another level to see who actually manufactures, the approvals, the dangerous good issues through Transport Canada, and having that summed up, completed, then we were to provide training to the individuals outside
officer, and I represent Mr. Lanouette's family by agency for another counsel, and I directly represent the family of Matt Davis. I didn't know either of these two men, but I'm acutely aware today that I'm here questioning people who worked with him, and I know many of his other colleagues from Cougar is also here today. I know from speaking with his family that Matt Davis loved what he did, he loved being a pilot, and he was a happy member of your company. That being said, I still have a number of questions that I want to ask and	HEEDS in the back for a number of years, it was decided in our eyes that that could be an opportunity for us. After exploring and doing risk assessments, after the introduction to passengers, we started looking into the HEEDS versus HUEBA, that when that came to light that it was more desirable for us for the HEEDS bottle, then we had to take it to another level to see who actually manufactures, the approvals, the dangerous good issues through Transport Canada, and having that summed up, completed, then we were

Februa	ry 4, 2010 Mult	i-P	age TM	Offshore Helicopter Safety Inquiry
	Page 161			Page 163
1	wanted, we approached Survival Systems.	1		Assuming that somebody is, you know, fit and
2	Survival Systems then started discussions with	2		not applying physiological aspects or
3	us, arranged and facilitated training to us,	3		psychological aspects to it are another thing.
4	and travelled to Newfoundland to provide that	4		Some of our crews, while undergoing training,
5	training, and as of yesterday, our crews are	5		did have problems, but we worked through those
6	done and Monday, we're initializing them for	6		problems, and to say that it took you guys
7	flight. They have to be filled up at this	7		seven years and it took us two, I think we've
8	stage, rechecked and they'll be good to go on	8		done a pretty good job actually. So I think
9	Monday.	9		the introduction is pretty proactive by our
	o'BRIEN:	10		company and I think getting the right piece of
1	When did you sit, first sit on the HUEBA task	11		equipment for our air crew and moving forward
12	force?	12		to this is definitely a wave in the future for
13 MR. I		13		us.
	Oh, it's I'd say two years ago now.)'BRIEN:
1	WILLIAMS:	15		Were you aware in 2000 that it was being
	Two years, yeah.	16		looked at for passengers?
1	O'BRIEN:			BANKS:
18 Q.	Only two years ago. The question here is that	18	Α.	No.
19	we know that the issue of the HUEBA first came	19	MR. B	BURT:
20	to light in 2000, in the year 2000. So at	20	Α.	I wasn't, but the whole issue of using a
21	that time, in 2000, the C-NLOPB had identified	21		compressed air for this HEEDS or HUEBA has
22	this is a piece of safety equipment that would	22		been a contentious issue for a number of
23	be beneficial for passengers to have, and	23		years, along with the you might have heard
24	that's when they started to look at it, in	24		the rebreathers some people use, and when you
25	2000. So that's nine years ago, and I	25		effect such wide-ranging changes of
	Page 162			Page 164
1	understood from the evidence that the reason	1		introducing this type of device on an
2	why it took one of the major reasons why it	2		immersion suit, when you talk about egress of
3	took this nine years to get the HUEBA in place	3		an aircraft, the dangerous goods of a 3,000
4	was because they were introducing this	4		pound psi bottle, the charge of them, the
5	compressed air system to more of a general	5		recharge of them, the training of people, the
6	population, that these devices had been used	6	i	recurrent training, the management of change
7	by pilots, and particularly military pilots,	7		and risk analysis for that is quite daunting.
8	for years, but that pilots are a highly fit	8		We have other places throughout the world that
9	group of individuals with you know, who	9)	was looking at it as well, and our industry is
10	don't have medical problems, just by the	10)	and the oil industry in general is quite
11	nature of the profession, and that the big	11		careful to make sure that we just don't
12	concern was taking this compressed air and	12		increase levels of risk because it's a
13	giving it to a more you know, a wider	13		perceived safety initiative. So I'll just
14	audience. You guys didn't have that concern.	14		give you a little bit of background from my
15	Your flight crew were already in that fit	15		knowledge into it.
16	group for whom these compressed air bottles	16	MS. O)'BRIEN:
17	had been being used for a long time. So I'm	17	Q.	Sure.
18	just curious as to why, for a company who's		MR. B	
19	telling us today that you're very, very	19	A.	And as far as a company goes, we were
20	proactive on safety, you're generative, they	20)	following through this passenger HEEDS system
21	were looking at it for passengers for seven	21		as well and trying to comment on it, and
22	years before you even got involved to look at	22		wanted to make sure that we put our attention
23	it for your own flight crew.	23		towards that, and what Mr. Banks was saying
24 MR. I		24		that once that was done, our management of
25 A.	Well, you know, I can speak to that too.	25		change process went in, which was a little bit

Page 165 Page 167 me it could have been earlier and a lot different because -2 MS. O'BRIEN: 2 earlier, but I will leave it, okay. Q. You know, I don't mean to cut you off. I 3 3 MR. BURT: appreciate everything that you're saying. A. I appreciate your question. 4 5 MR. BURT: 5 MS. O'BRIEN: A. Sure, okay. Q. Yeah, okay. The next question I want to ask 6 has to do with security, and it's just a 7 MS. O'BRIEN: 7 fairly quick question. We have heard from you 8 O. But the fact remains is that this was a device 8 that keeping certain items off your aircraft, that had been used for pilots, had been used 9 9 10 for pilots for some time. So a lot of the 10 such as explosives, firearms and things, issues that you're talking about, about how -that's mandated to you by Transport Canada, 11 11 you know, how it would be implemented for this and there's certain items you keep off your 12 12 group of people, it was already being done out aircraft and that's mandated by the operators, 13 13 there, very different from the passengers, who such as cell phones, cameras, things they 14 14 I understand our passengers are the first ones don't want on the installation. 15 15 16 globally using this compressed air system. We heard from the -- I'm not sure if it 16 That's not the same for flight crew. Flight was the operator panel or from one of the 17 17 crew have been using this for a long period of operator groups, that the reason why they --18 18 19 time. 19 that there is heavy security checking only on the way to the Platform, right, where 20 MR. BURT: 20 passengers -- where there's metal screening 21 A. Military. 21 22 MR. BANKS: 22 and searches of their bag, we saw it on your A. Military. 23 video -24 MS. O'BRIEN: 24 MR. BURT: 25 Q. Military flight crew. A. Right. Page 166 Page 168 1 MR. BURT: 1 MS. O'BRIEN:

A. Military. Like I'm a flight crew member, and 2 I wouldn't regard myself as that fit, but you 3 know, so I -- you know, I have flown -- I 4 5 don't have a military background. I've flown for 25 years and I've not used it before, and 6 in fact, I was one of the -- admittedly, one 7 8 of the two people in our company that could 9 not pass the training because I just couldn't -- I just couldn't do that thing, that gasp 10 11 thing. So it's a little embarrassing, but I didn't pass it. So I had an appreciation for 12 the seriousness of insisting that this be put 13 on our staff without making sure it was 14 15 properly addressed. Our intent was to, as we always do, is to put every piece of equipment 16 out there, in the light of your question, that 17 we can put in front of our staff, in front of 18 19 our flight crew, every piece of kit, every piece of gear that we can, including equipment 20 they have in that aircraft, to make their job 21 22 as safe and effective as possible.

Q. - but there's no similar checking done when passengers are leaving the installations, was 3 because they consider the installations 4 5 similar to the secured flight area of an airport. Once you pass through security, 6 7 you're in there and there's nothing coming or going and it's considered a secured area. Do 8 you look at -- from your perspective, and your 9 obligations to Transport Canada, do you 10 11 consider the installation a secured area, similar to that of an airport? 12

13 MR. BURT:

14 A. I'm going to -- Mr. Williams, I know he's been involved in this, so -15

16 MR. WILLIAMS:

17 A. Yes, to some degree, and I'll be the first one to say that that conversation has been for a 18 few years discussing how we do this. There 19 is, you know, I can say, a general inspection 20 of returning baggage and freight, but not to 21 22 the extent that we do it with metal detectors in that regard. But we do consider the 23 Platform, for example, you know, with regards 24 25 to Transport Canada, dangerous goods and

Q. I'll leave that for questioning now. I still

maintain that it doesn't seem -- it seems to

23 MS. O'BRIEN:

24

February 4, 2010	Multi-P	age Offshore Helicopter Safety Inquiry
	Page 169	Page 171
weapons. All of the people that ship fre	-	MS. O'BRIEN:
2 offshore are all trained in dangerous go	-	Q. Okay.
3 so we're quite confident that dangerous		MR. BURT:
4 will not get on our inbound flight. We d	_	
5 see weapons as a potential because they		
6 get out, and it is a secure environment, b		
from the vessel and the helicopter. So		
8 an area that we I agree maybe we sh		
9 look at, but we do not see it as a threat		*
10 us in no way.	10	
11 MS. O'BRIEN:	11	flight crew. And then, you know, we provide
12 Q. I just you know, because we do have		-
a little different, you know, an installation		fires, and then there's an issuance of thermal
to me, seems a little different because		
have vessels going out there which it's a	·	
harder to control security on vessels. S		
just wanted to get your views on that.	17	analyze this, together with our flight crew,
18 MR. BURT:	18	
19 A. I think it would be worthwhile to talk a		-
it a little bit more, in general. That's a		•
21 general comment.	20 21	principle, and in that, we came back and we
22 MS. O'BRIEN:	21 22	
23 Q. Okay, all right. I'm going to move now		•
24 flight suits. From what I understood f		•
25 your presentation is that the flight crew		•
your presentation is that the riight erew		<u> </u>
	Page 170	Page 172
a suit unlike the passengers who have		our crew, and this suit came out as the clear
2 suit that meet two different standards the		
are put out by the CGSB, very stringe		1
4 standards that we have all seen for the		, in the second of the second
5 helicopter passenger transportation suit		aspects of it, and it met the conditions that,
6 the immersion suit and these standards g		•
7 lots and lots of detail about, you know		1
8 temperature gradients and water ingress		ž ,
9 egress and a whole lot of things. But the		
for your flight crew, there's really no		1
standard for the suit other than it has t		suit.
adequately protect the flight crew from the state of the		MS. O'BRIEN:
hypothermia. Am I right?	13	Q. Okay. When did you choose that suit? When
14 MR. BURT:	14 2 for 2	1 1
15 A. Our mandate is set by Transport Canad		MR. BURT:
16 flight crew and that mandate is that		
provide suitable protection agains		MS. O'BRIEN:
hypothermia. That's the mandate.	18	Q. Roughly.
19 MS. O'BRIEN:		MR. BURT:
20 Q. Okay. So the suits that your flight cre		• •
21 wear, can you we talked a bit about		MR. WILLIAMS:
thermal layer. I mean, do they have a th		, , , , , , , , , , , , , , , , , , ,
23 layer? Can you just give us a -	23	1
24 MR. BURT:		MS. O'BRIEN:
25 A. They have three layers.	25	Q. Okay. So when you're saying that is it

February 4, 2010	/Iulti-Page ***	Offshore Helicopter Safety Inquiry
Page	173	Page 175
is Viking the manufacturer, correct?	1	three of your layers, so that -
2 MR. BURT:	2 MR. BI	URT:
3 A. Viking is the manufacturer.	3 A.	Sure.
4 MS. O'BRIEN:	4 MS. O	BRIEN:
5 Q. So is it Viking who manufactures all three	5 Q.	You know, we can because we know the specs
6 layers, the thermal layer, the fireproof layer	6	for the passenger suits, and I know that
7 and the -	7	there's differences in the jobs that they do,
8 MR. BURT:	8	but I think it might be helpful to have the
9 A. No.	9	different specs of the suits that everybody is
10 MS. O'BRIEN:	10	wearing.
11 Q waterproof layer?	11 MR. B	URT:
12 MR. BURT:	12 A.	That's a good initiative in and of itself,
13 A. It's the external layer, the waterproof layer.	13	yes, and to answer your question, yes.
We have a Nomex flight suit, which is the fire	14 MS. O'	
retardant layer, and then the issuance of the	1	Okay, thank you very much. Just to be clear,
thermal layer is basically like a Helly Hansen	16	your pilots aren't issued gloves, is that
type of thermal underwear.	17	right, as part of their suits, because of the
18 MS. O'BRIEN:	18	hooking concern?
19 Q. Okay. Do your flight crews have to wear all	19 MR. B	•
20 three layers that you have issued when they	20 A.	Our gloves are not here, but they're in a
21 fly? Are they required to wear the thermal	21	separate I'm not exactly sure where it is,
layer you issue as well as the fireproof layer	22	but it's in the leg pocket.
and the waterproof layer every time they fly?	23 MS. O	
24 MR. BURT:		Okay. So they do have gloves?
25 A. It's our direction for them to wear all three	25 MR. BI	
Page	174	Page 176
layers and they've been educated as to why		We've taken them off the arms for that whole
that that is a complete system.	$\frac{1}{2}$	hooking things, but they're issued gloves and
3 MS. O'BRIEN:	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	the hood as well.
4 Q. In practice, do they wear all those three	4 MS. O	
5 layers? Yes? I'm getting a nod there from		Okay, and do they have the light as well?
6 Mr. Williams.	6	We've seen -
7 MR. BURT:	7 MR. B	
8 A. In my practice, and practice that I've seen,		The lights are integral on the life jacket.
9 I'd say yes.	9 MS. O	
10 MS. O'BRIEN:		Okay.
11 Q. Okay.	10 Q. 11 MR. B	•
12 MR. BURT:		And the personal locator beacons as well.
13 A. I don't I haven't watched them all,	13 MS. O	-
14 whatever, and I would suggest that if we did		Okay, thank you. I'm now going to move to
see somebody who didn't, we would have a talk.	15	helmets.
16 MS. O'BRIEN:	15 16 MR. B	
17 Q. Okay. We have asked Colonel Drover, who was		Sure.
here with DND, to supply the Commission with	17 A. 18 MS. O	
the specs for the suits that his pilots, DND's		I'm just on the safety equipment. I
20 SAR pilots wear.	20	understood you, Mr. Burt, yesterday to say
21 MR. BURT:	20 21	that "some of our pilots have come from a
22 A. Right.	$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	military background, so they have asked if we
23 MS. O'BRIEN:	23	would mind if they wear helmets and we have
24 Q. And I would ask if Cougar could if you	24	said that that is okay." So you have a mix
25 could supply the same specifications for all	25	in practice, you have a mixture of flight crew
20 court suppry the same specifications for all	123	in practice, jou have a minimo of might crew

February 4, 2010	Multi-Pa	age Offshore Helicopter Safety Inquiry
	Page 177	Page 179
who some are wearing helmets and	some are 1	because the visor I can just put down, I don't
wearing headsets? Is that correct?	2	have to wear my sunglasses," and you know, I
3 MR. BURT:	3	thought about it, and it's one of these ones
4 A. Right. I mean, to clarify that too, the	ere's 4	where you're going to say, you know, "darn it,
5 some that have come from the civilia		just wear your headset and go," and then I
6 that have worn helmets as well. They	equally 6	said "no, I've got to" I think, as a proper
7 requested to keep those.	7	stance as a manager is listen and I didn't see
8 MS. O'BRIEN:	8	any reason why we would not allow them to do
9 Q. Okay. So to me, and obviously not a	a pilot, 9	that, and I appreciate them coming forward to
but coming as a mom, I always consid	der helmets 10	do it. Now I know that we have a crew, one
to be a really good thing, right.	11	crew with a helmet and one with a headset.
12 MR. BURT:	12	Does not affect their job. They both can hear
13 A. I hear you.	13	and function the same way. So I just took
14 MS. O'BRIEN:	14	that principle and I said "sure, we will
15 Q. The helmets protect you. If you're	in an 15	accommodate that." I didn't have any negative
accident I mean, not to be funny ab	out it,	stance to say that you couldn't do that. That
but of course, head trauma can b	e a 17	was my -
significant factor for any one who's	in an 18	MS. O'BRIEN:
accident, and certainly it can impede	you 19	Q. Is there a down side to wearing a helmet?
know, if you get head trauma, and per	rhaps you 20	MR. BURT:
can't get yourself out of the helicopte	r, and	A. There is in some cases a down side. It's a
there's all kinds of good reasons to p	rotect 22	very heavy no, it's a heavier thing to put
the head. So it seemed to me that we	earing a 23	on your head. You know, it does have a
helmet would be the obvious best practice.	ctice, and 24	tendency to tire the neck a little bit. I
you know, clearly it's not a requirem	ent for 25	find it and this is very personal, by the
	Page 178	Page 180
1 your pilots to wear these helmets. So	I was	way. I find it personally uncomfortable
wondering if you could give me a litt	tle more 2	myself. I'm not used to it, and there's no
3 information on that.	3	difference in from my hearing protection,
4 MR. BURT:	4	I've flown 30 years and I have still above
5 A. I think it's based in risk management	. Our 5	average hearing. So that would be my personal
6 search and rescue crews wear helmets	s and they 6	answer to your question.
7 wear helmets because of the tactical n	ature of 7	MS. O'BRIEN:
8 that job. I mean, as versus flying wit	th Air 8	Q. From a safety point of view, is it safer to
9 Canada, the crews and the passenger	rs don't 9	wear a helmet than to not wear a helmet?
wear helmets. Our passengers going	offshore 10	MR. BURT:
don't wear helmets. I flew 30 years a	and I've 11	A. I think a helmet would protect, you know, your
not worn a helmet. That doesn't mea	nn I'm 12	head and your face more than a headset would,
just telling you my situation. But we	do fly 13	yes.
a transport airline style, as you heard	l, in 14	MS. O'BRIEN:
environment and the risk levels of do	oing so,	Q. Okay. So you know, if it's safer to wear a
along with the passengers, have been		helmet than to not wear a helmet, if the issue
as acceptable. However, as the ge		is comfort, isn't safety more important?
manager of the company, I was face		MR. BURT:
pilot group, and I had to look at our co		A. Well, again, it has to do with levels of risk.
20 safety culture, and as I said, everything	-	What is an acceptable level of risk? I would
do here we run through our safety of		not necessarily say that the other crew
statement, and they said, you know, '		members had to wear a helmet, because I
23 would really like to wear my helme		believe that that is an acceptable level of
comfortable with it. For me, it adds		risk and I say that for myself. But again,
25 I've had it my career. I like the vis	sor 25	ask we have to ask the question about the

Tebruary 4, 2010	Multi-1	age	Offshore Hencopier Safety Inquiry
	Page 181		Page 183
1 entire aircraft. I'm not fighting	against 1	1 MR.	BURT:
2 helmets because I'm the one wh	o made the 2	2 A	. For nighttime operations, specifically flight
decision to bring them in. So I do	n't know if 3	3	crew have to have a currency for nighttime
4 I really adequately answered you	r question. 4	4	flying. You have to make sure your license is
5 It was a tough one for me.	5	5	current, that you've had five take off and
6 MS. O'BRIEN:	6	5	landings in the following six months, I
7 Q. Have you done a full risk assessm	nent on the 7	7	believe. So there's a currency issue.
8 issue of helmets? Has your com	pany done a 8	8	There's an issue of making sure that your
9 full risk assessment? We've see	n you have 9	9	destination has all its lighting is working
risk assessment procedures.	10)	appropriately, because again that's a go-no-go
11 MR. BURT:	11	1	factor. The pitch, roll and heave, you have
12 A. Yeah.	12	2	to adjust the limits to the nighttime
13 MS. O'BRIEN:	13	3	limitations, and as a pilot, I've often, in
14 Q. Have you done that?	14	4	the nighttime, you know, talked to my crew
15 MR. BURT:	15	5	member and said there's some physiological
16 A. No. No, we haven't.	16	5	differences nighttime. You know, let's
17 MS. O'BRIEN:	17	7	remember that nighttime, your vision, your
18 Q. Do you think it might be a goo	d time to 18	3	cones narrow from a visual point of view, and
perhaps run a risk assessment on	helmets and 19)	these are things that pilots are trained and
see, you know, what the results a	re when you 20)	are supposed to brief each other. So that's
do it, rather than a my opinion, m	y personal 21	1	what I would regard as our considerations for
opinion, do it in a systematic way	? 22	2	nighttime.
23 MR. BURT:	23	3 MS.	O'BRIEN:
24 A. I think it's actually I think it's	a very 24	4 Q	Okay. Do you look at in terms of the
good idea.	25	5	safety of your employees, do you look at
	Page 182		Page 184
1 MS. O'BRIEN:		1	when making a decision about whether or not to
2 Q. Okay, good.	2	2	do a night flight, do you look at some of the
3 MR. BURT:	3	3	other factors that we know that the operators
4 A. And I can agree here, on the reco	rd, that we 4	4	are looking at, in terms of does DND have
5 will do it, because it's just pure go		5	their helicopter there in Gander, sea state
6 do so.	6	5	requirements, things like that? Are you
7 MS. O'BRIEN:	7	7	looking at that or not?
8 Q. Okay, good, thank you. The next	thing I want 8	8 MR.	BURT:
9 to talk about is night flights.	So I 9	9 A	Well, certainly, you know, we you know,
understood from your direct evide			Gander has always been an important we've
11 Cougar is making a decision about	it whether or	1	had a good liaison with them and we do check
not to take a night flight, and we'r	re talking 12	2	with the availability of Gander and Rescue
about Cougar's own criteria, lik	e are you 13	3	103, and -
going to send your employees out	, your pilots 14	4 MS.	O'BRIEN:
out. What you are looking at is th	e heave and 15	5 Q	2. But that's because it's mandated that's
the motion of the installations?	Is that 16	5	because the operators have requested you to,
17 correct?	17	7	correct?
18 MR. BURT:	18	8 MR.	BURT:
19 A. That's one factor.	19	9 A	No. I mean, we do it as a normal function of
20 MS. O'BRIEN:	20)	our business, and I think Mr. Williams has
21 Q. Oh, that's just one factor, okay	y. I 21	1	probably got more of a day-to-day handle on
22 understood that that was the main	factor. So 22	2	that, and I just want to make sure that he
23 maybe if you can over what are	the other 23	3	validates what I'm saying.
factors that you are looking at who	en you make 24	4 MR.	WILLIAMS:
the call about a night flight?	25		Voob I think what you're referring to is what

A. Yeah, I think what you're referring to is what

the call about a night flight?

Γ		Daga 105		Page 1	97
1	1	Page 185		Page 1	.87
1		we said yesterday is when we would launch a	1		
1		flight that the customer has agreed for us to	2	,	
1		fly. Yes, we verify with 103, but there's	3		
1		been a very informal process, I call it	4	\mathcal{E}	
1		industry courtesy, that we're always familiar	5	E , ,	
1		with each other, where we are and what we're	6	\mathcal{E}	
1		doing on any given day and any given night.	7	E	
1	8 MS. O		8		
1		Okay. Just to be clear, here's my concern, as	9		
1		I've been hearing, you know, all the evidence		0 MR. BURT:	
1		as we've gone to date as well as the evidence	11	, ,	
1		that we've had from Kimberly Turner about	12	<i>y c y c</i>	
1		safety systems and how they work. It seems	13	•	
1		like when we're talking about night flights	14		
1	15	that when we're and we're looking at the	15	some of the things to do with the fast rescue	
1	16	safety barriers, so these pieces of cheese,	16	6 craft or the fact of if a helicopter has to	
1	17	that at night, it seems to be we're getting	17	7 land on the water. I mean, that takes an	
1	18	into a situation where we for night flights	18	8 extra skill set to do that, an extra enhanced	
1	19	now, where we're having increasingly larger	19	9 risk model. There's no doubt about that. So	
	20	holes in each of these barriers and I'm	20	again, it really is what it is. You're flying	
	21	wondering if it might be getting up to a	21	nighttime, even as a crew member, you know,	
	22	situation where even though not one particular	22	you can't quite see if there's any ice build	
	23	thing is over the safety limit, that in the	23	up on the aircraft. Even though you have a	
1	24	aggregate, there's enough things are kind of	24	rotor ice protection system, it's still nice	
	25	at a higher level of concern that perhaps	25	to see, you know, what's coming up ahead and	
ſ		Page 186		Page 1	88
1	1 r	night flying might not be a good idea or might	1		
1		be it might merit some further scrutiny,	2		
1		and the things I'm looking at are this. We	3		
1		know that the ability to launch an FRC or the	4		
1		fast rescue craft. So if people do end up in	5		
1		he water, heaven forbid, the ability to	6		
1		aunch the fast rescue craft is limited,	7		
1		depending on sea state. That sea state is	8		
1		related, no doubt, to the heave, pitch and	9		
1		coll of the installations that you're looking	10	•	
- 1		at, but it's not necessarily a direct	11		
- 1		correlation between those two numbers. We		2 MS. O'BRIEN:	
- 1		have a case where, you know, they're calling	13		
- 1		to find out is the helicopter on the ground in	14		
- 1		Gander, but that's only when the flight is	15	•	
- 1		aunched. That flight is going to be ongoing	16		
- 1		now for two and a half hours, there and back,		7 MR. BURT:	
- 1		and we know that the helicopter in Gander	18		
- 1		could take off 20 minutes after your plane		9 MS. O'BRIEN:	
- 1		does. So it might not be there. So again,	20		
- 1		ust a little bit more risk there. You don't	21		
- 1	-	have the auto hover yet, so the first response	22	_	
- 1		nelicopter doesn't have that ability to do the	23		
-11		The state of the s			

25

somebody else is too, maybe not. We heard

early from, I think it was Howard Pike, the

hoisting at night, because at night you need

the auto hover, because you can't get a visual

24

Febi	ruary 4, 2010 Mu	ılti-Page	Offshore Helicopter Safety Inquiry
	Page 1	89	Page 191
1	chief safety officer with the C-NLOPB, that	1	reporting, there's two levels there, and one
2	sort of after March 12th, he came to be aware	2	is an occurrence reporting, which is not an
3	of Transport Canada's CADORS site where	3	incident and it's not mandatory, but this is
4	incidents, near misses, or certain aviation	4	the mandatory reporting event, and that's the
5	events of concern are reported, and he looked	5	one we would refer to here as actually,
6	at the incidents that had been helicopter	6	it's a reportable aviation incident, and
7	incidents that had been reported to the C-	7	that's the context of what we have today. TSB
8	NLOPB and he compared that to the CADORS	8	has prescribed exactly what that is, the items
9	database and they didn't necessarily matched	9	which is reportable, and just to give you an
10	up. There was some events in one, not in the	10	example, when I cited earlier on that we did
11	other, and there wasn't a match up there.	11	not report to TSB on one or two events, they
12	We've also heard today from your questioning	12	were not required to be reported. It's not as
13	by Mr. Earle that Mr. Earle is aware of	13	though we didn't want to report them. It was
14	reporting that's being done to the TSB, which	14	a function of it is not part of the mandatory
15	of course is slightly different from the	15	reporting that TSB has cited here that they're
16	CADORS system, and he asked you and you gave	16	interested in.
17	undertakings to bring forward reporting that	17	So I think there is a level of confusion
18	you did to the TSB.	18	between CADORS and TSB and even in some
1	IR. BURT:	19	regards to maybe the regulatory regime, what's
20	A. Right.	20	required here. I would like to have it
	IS. O'BRIEN:	21	cleared up, to be honest with you, between
22	Q. So now we've got sort of three reportings of	22	CADORS and this mandatory reportable aviation
23	helicopter incidents or near misses, or	23	incident, because I find it confusing.
24	however they're categorized, reporting to the	1	O'BRIEN:
25	C-NLOPB, reporting to Transport Canada CADORS,		Q. Okay. Well then I don't feel bad for being
	Page 1		Page 192
1	and reporting to the Transportation Safety		confused.
2	Board, and at least we know some of them		. BURT:
3	weren't matching up. I'm wondering if you		A. And you shouldn't.
4	could explain these three different	I	O'BRIEN:
5	reportings, what's being reported, should they	I	Q. Perhaps that something that the Inquiry will
6	be consistent, should they not be consistent.	6	look into in a little more detail, as part of
7	Could you give us some more information on	7	their work. Okay. You just when you
8	that?	8	responded there, you addressed the CADORS and
'	IR. BURT:	9	the TSB, but you didn't really address the C-
10	A. Sure. The CADORS, again, is a mechanism that	10	NLOPB reporting. Do you have anything to do
11	is available. The Federal Government has	11	with that or not?
12	decided that when a flight turns around or has		BURT:
13	some discrepancy in an airport area or even on	1	A. Mr. Williams certainly does.
14	route that it will report and it will put it		. WILLIAMS:
15	out to the public at large. It's not		A. Yeah. Well, we do not have a direct reporting
16	something that we report. It's something that	16	mechanism to the C-NLOPB. I am obligated
17	the air traffic controller will report as an	17	under our contracts to report any event to our
18	automatic function. I find them confusing	18	customer base, and my understanding is that
19	myself.	19	they have a requirement to report the
1	IS. O'BRIEN:	20	incidents to the Board that they see fit. I
21	Q. Okay.	20 21	often provide information to them that they
1	IR. BURT:	22	need for those reports on a continuous basis.
23	A. And I have to be honest with you, I don't	1	O'BRIEN:
24	understand a huge amount of value in the		Q. Okay. So something that you might report to
25	CARORS As for as the Transport Sefety Board	27	the approximate wouldn't be compating that

the operators wouldn't be something that

25

CADORS. As far as the Transport Safety Board

	1 uary 7, 2010 Wint	1-1 (8-	Offshore Hencopier Safety Inquiry
	Page 193			Page 195
1	you're required to report to the TSB?	1		here, I understand what you're saying it's
2 1	MR. WILLIAMS:	2		information you want to give face to face.
3	A. Correct, yes. But you know, I would say that	3		It's information you don't want to give over
4	there's probably I almost consider every	4		the phone, if it's someone's been in a serious
5	event that goes in to a customer report, but	5		accident. But the fact is if it's too long a
6	not all those are reportable under TSB, as Mr.	6		window, that person is likely to have heard
7	Burt said, absolutely not.	7		already on the radio which, in my mind, is a
	MS. O'BRIEN:	8		far worse way to get the information.
9	Q. Okay, all right. Thank you. The next thing I		MR	BURT:
10	want to ask about is in terms of notification	10		. Sure.
11	of families after an incident like the one on			O'BRIEN:
12	March 12th. So we heard from one of the	12		So, you know, how long do you expect it to
13	operator panels, I think I put the question to	13	Q	take? You know, I've seen your manual. I
14	directly, about how long it would take them	14		reviewed your emergency response procedure,
15	to, you know, get the information, the	15		but it doesn't speak to time lines, you know.
1	passenger information and call out to families	16		What's your expectation, expected time line to
16	and they said it could be a considerable	17		get the information to the families?
17	period of time, hours or you know, hour,	1	MD	WILLIAMS:
18	somewhere in that realm. But we heard from	1		
19		19	А	To me, it would as soon as I have you know,
20	you that you get your passenger information,	20		the word timely and the two words, timely
21	you can pull it up very quickly and readily on	21		and accurate comes to mind here. As soon as I
22	your system, and I'm not concerned right now	22		have accurate information, I get it as timely
23	with passenger notification, because I'll	23		as possible to them.
24	leave that to other people, but certainly in	1		O'BRIEN:
25	terms of the families of your employees who	25	Q	Could that be up to an hour, hour and a half?
	Page 194			Page 196
1	Page 194 are on a helicopter that has, say, ditched or		MR.	Page 196 WILLIAMS:
1 2				_
1	are on a helicopter that has, say, ditched or	1	A	WILLIAMS:
2	are on a helicopter that has, say, ditched or crashed, how long I mean, you know	1 2	A	WILLIAMS: . It probably would be up to an hour before we
2 3	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are	1 2 3 4	A	WILLIAMS: . It probably would be up to an hour before we would have exactly the information we want to
2 3 4	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their	1 2 3 4	A MS.	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes.
2 3 4 5	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take	1 2 3 4 5	A MS.	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN:
2 3 4 5 6	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response	1 2 3 4 5 6 7	A MS. · Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though,
2 3 4 5 6 7 8	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the	1 2 3 4 5 6 7	A MS. Q MR.	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources.
2 3 4 5 6 7 8	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families?	1 2 3 4 5 6 7 8	MS. Q MR. A	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS:
2 3 4 5 6 7 8 9 1	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT:	1 2 3 4 5 6 7 8	MS. Q MR. A MS.	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know.
2 3 4 5 6 7 8 9 10	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information	1 2 3 4 5 6 7 8 9	MS. Q MR. A MS.	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN:
2 3 4 5 6 7 8 9 10	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this	1 2 3 4 5 6 7 8 9 10	MS. Q MR. A MS.	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to
2 3 4 5 6 7 8 9 10 11 12	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make	1 2 3 4 5 6 7 8 9 10 11 12 13	MS. Q MR. A MS. Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes
2 3 4 5 6 7 8 9 10 11 12 13	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them	1 2 3 4 5 6 7 8 9 10 11 12 13	MS. Q MR. A MS. Q MS. 1	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away.
2 3 4 5 6 7 8 9 10 11 12 13 14	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. Q MR. A MS. Q MS. 1	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. Q MR. A MS. Q MS. 1	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank -	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. Q MR. A MS. Q MS. 1 Q COM	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 N	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank -	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. Q MR. A MS. Q MS. Z COM Q MS. Z	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner. MISSIONER: I'd just as soon you go on.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank - MR. WILLIAMS: A. I might add, in our ERP, our emergency response manual, the first management member	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MS. Q MR. A MS. Q MS. Q COM Q MS. Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner. MISSIONER: I'd just as soon you go on. O'BRIEN:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank - MR. WILLIAMS: A. I might add, in our ERP, our emergency response manual, the first management member that arrives on the scene at the time, if they	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MS. Q MR. A MS. Q COM Q MS. Q COM	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner. MMISSIONER: I'd just as soon you go on. O'BRIEN: Yes, I'm fine to do that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 N 18 19 20	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank - MR. WILLIAMS: A. I might add, in our ERP, our emergency response manual, the first management member that arrives on the scene at the time, if they call in a list and it happens to be me, one of	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. Q MR. A MS. Q COM Q COM Q COM Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner. MISSIONER: I'd just as soon you go on. O'BRIEN: Yes, I'm fine to do that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank - MR. WILLIAMS: A. I might add, in our ERP, our emergency response manual, the first management member that arrives on the scene at the time, if they call in a list and it happens to be me, one of my obligations is to identify someone for that	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. Q MR. A MS. Q COM Q COM Q COM Q MS. Q COM Q MS. Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner. MISSIONER: I'd just as soon you go on. O'BRIEN: Yes, I'm fine to do that. MISSIONER: Okay. O'BRIEN:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 N 18 19 20 21 22 23	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank - MR. WILLIAMS: A. I might add, in our ERP, our emergency response manual, the first management member that arrives on the scene at the time, if they call in a list and it happens to be me, one of	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. Q MR. A MS. Q COM Q COM Q COM Q MS. Q COM Q MS. Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: I that's up to the Commissioner. MISSIONER: I'd just as soon you go on. O'BRIEN: Yes, I'm fine to do that. MISSIONER: Okay. O'BRIEN: Thank you. With respect, we've heard a lot
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	are on a helicopter that has, say, ditched or crashed, how long I mean, you know obviously who the pilot and first officer are on any flight, and you know, you have their contact information. How long would it take you, as part of your emergency response system, to call their families and notify the families? MR. BURT: A. Well, obviously we'd know that information right away, and first off, I think, in this case here, you know, we would make arrangements to actually, you know, meet them face to face. It wouldn't be a phone call in regards to having like crew members that lived here. Other than that, Hank - MR. WILLIAMS: A. I might add, in our ERP, our emergency response manual, the first management member that arrives on the scene at the time, if they call in a list and it happens to be me, one of my obligations is to identify someone for that purpose, out of our group, to do that.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. Q MR. A MS. Q COM Q COM Q COM Q MS. Q COM Q MS. Q	WILLIAMS: It probably would be up to an hour before we would have exactly the information we want to relay on, yes. O'BRIEN: And you realize in that amount of time though, the families have heard from other sources. WILLIAMS: I know. O'BRIEN: I am almost finished, but if we want to go to the break. I'm not I'm a few more minutes away. FAGAN: That's up to the Commissioner. MISSIONER: I'd just as soon you go on. O'BRIEN: Yes, I'm fine to do that. MISSIONER: Okay. O'BRIEN:

			age Offshore Hencopter Sarety Inquiry
	Page 197		Page 199
1	here's my concern. Certainly there's no doubt	1	ϵ
2	that Cougar is a very heavily audited entity.	2	2 HSI, the support division, or the
3	You are being audited by your regulators. You	3	manufacturing side of the house. So other
4	are being audited internally. You're doing	4	than that, it was informal.
5	your own audits, and you're being audited by	5	5 MS. O'BRIEN:
6	your customers. What I'm wondering is you're	6	Q. So this is the first formal -
7	being audited by customers, in turn, you're a	7	7 MR. BURT:
8	customer and a significant customer for	8	A. This is the first formal, yes.
9	Sikorsky, who is making the helicopters that	9	MS. O'BRIEN:
10	you're flying. So we've heard lots here at	10	Q. So is it fair to say that this is another
11	this Inquiry about audits going on of you, of	11	•
12	the operators. But what I'm wondering is do	12	
13	you in turn your customers are auditing		3 MR. BURT:
14	you. Do you, in turn, go and audit Sikorsky?	14	
15	What I mean, one would presume Sikorsky has		5 MS. O'BRIEN:
16	their own safety management systems and things	16	
17	going on. Who is overseeing them? How do you	17	
18	get the comfort level that the company that	18	
19	you're dealing with is doing things right?	19	
1	MR. BURT:	20	
20 1	A. Again, a good question. We do audit our	21	
1	suppliers, whether it's suppliers of nuts and		
22		22	
23	bolts, all the way to our manufacturers, and I	23	♣
24	guess, a point is that Mr. Banks has also just	24	
25	recently pulled a team and we are going to	25	accept what Cougar tens us is required, and
	Page 198		Page 200
1	Page 198 audit Sikorsky and HSI and I'll let him speak	1	Page 200 that's what we put. Is there a difference for
1 2	Page 198		Page 200 that's what we put. Is there a difference for the third? Are any of the three main
1	Page 198 audit Sikorsky and HSI and I'll let him speak	1	Page 200 that's what we put. Is there a difference for the third? Are any of the three main
2 3	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this	1 2	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here
2 3	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager.	1 2 3	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your
2 3 4	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS:	1 2 3 4 5	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your
2 3 4 5	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in	1 2 3 4 5	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT:
2 3 4 5 6	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which	1 2 3 4 5 6	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment,
2 3 4 5 6 7	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in	1 2 3 4 5 6 7	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent
2 3 4 5 6 7 8	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a	1 2 3 4 5 6 7 8	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are
2 3 4 5 6 7 8 9	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week.	1 2 3 4 5 6 7 8 9	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be
2 3 4 5 6 7 8 9	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a	1 2 3 4 5 6 7 8 9	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land
2 3 4 5 6 7 8 9 10 11	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety	1 2 3 4 5 6 7 8 9 10 11	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it
2 3 4 5 6 7 8 9 10 11 12	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we	1 2 3 4 5 6 7 8 9 10 11 12	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the
2 3 4 5 6 7 8 9 10 11 12 13	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out	1 2 3 4 5 6 7 8 9 10 11 12 13	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond
2 3 4 5 6 7 8 9 10 11 12 13 14	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one	1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to.	1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to. MS. O'BRIEN:	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here? MR. BURT:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to. MS. O'BRIEN: Q. Before this one, when was the last time that	1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here? MR. BURT: A. But the operators.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to. MS. O'BRIEN: Q. Before this one, when was the last time that you did such an audit of Sikorsky?	1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here? MR. BURT: A. But the operators. MS. O'BRIEN:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to. MS. O'BRIEN: Q. Before this one, when was the last time that you did such an audit of Sikorsky? MR. BURT:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 200 that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here? MR. BURT: A. But the operators. MS. O'BRIEN: Q. All three of them?
2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to. MS. O'BRIEN: Q. Before this one, when was the last time that you did such an audit of Sikorsky? MR. BURT: A. Our reviews of Sikorsky were not formalized in	1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here? MR. BURT: A. But the operators. MS. O'BRIEN: Q. All three of them? MR. BURT:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 198 audit Sikorsky and HSI and I'll let him speak to that, because he's the team lead for this one, as the quality manager. MR. BANKS: A. That's correct. Next week, we're down in Sikorsky plant, as well as HSI support, which is a function of Sikorsky that assists them in building practices, fabrication and we have a five-day vendor audit occurring next week. Whenever we do a vendor audit, there's a pulled team put together, myself from safety and ISO. We also have our quality assurance maintenance manager, he's on the team, and we have a representative from VIH Helicopters out west, and we have one third party assisting us from Rotor Maxx Limited, which is an expert in design and manufacture. So that's just one that we can speak to. MS. O'BRIEN: Q. Before this one, when was the last time that you did such an audit of Sikorsky? MR. BURT:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that's what we put. Is there a difference for the third? Are any of the three main operators that we're talking about here putting more stringent requirements on your pilots, or if you could please speak to that? MR. BURT: A. Panel, if I miss any, the panel could comment, but there are additional more stringent requirements on night currency. There are more onerous requirements that we must be recurrent from the times that we either land on a vessel offshore during nighttime or do it in a simulated fashion nighttime in the simulator. That's one additional one beyond that Transport Canada limitation that I mentioned to you. MS. O'BRIEN: Q. Is that required by the operators here? MR. BURT: A. But the operators. MS. O'BRIEN: Q. All three of them? MR. BURT: A. Yes, yeah. The requirements for the minimum

Page 201	Page 203
1 hours on the east coast of Canada, hours in a	1 when I receive an RFP, request for
2 multi-engine aircraft, hours nighttime are all	2 proposals, there's a section in there of what
in excess of what Transport Canada require.	their requirements are for flight crews, and
4 So they are fairly onerous ones as well.	4 you know, it's pretty standard. Sometimes
5 MS. O'BRIEN:	5 they're pretty similar. We do see some
6 Q. But those are your those are Cougar's	6 uniqueness, as Mr. Burt identified, but and
7 requirements?	7 when we're audited, the individual aviation
8 MR. BURT:	8 auditor comes in and audits against their
9 A. No, they're also stipulated by our customer.	9 particular standards.
	particular standards. 10 MR. BURT:
are even higher and we keep moving to the	11 A. I mean, while it may be inconsistent, it's a
highest of our customers.	higher model, which we've moved to.
13 MS. O'BRIEN:	13 MS. O'BRIEN:
Q. Okay. But what I'm saying is the evidence I	Q. Sure, whatever the case is, whoever is
had from at least two of the operators was	15 correct, it's still higher than what's
that they didn't require anything more onerous	required.
than you told them what was acceptable. Your	17 MR. BURT:
evidence what I'm pointing out here is	18 A. Right.
there seems to be a little bit of a difference	19 MS. O'BRIEN:
in your evidence and the evidence of at least	20 Q. I understand that. Okay. I just have a
21 two of the three operators.	just I might even be done, if you could just
22 MR. WILLIAMS:	give me no, I have a couple of questions
23 A. If I can -	that do relate to search and rescue. One is
24 MR. BURT:	you mentioned now, right now, you have here in
25 A. Yeah.	St. John's, an S-61. Does that have float
Page 202	Page 204
Page 202 1 MR. WILLIAMS:	Page 204 capabilities? Can that land on the water like
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line,	Page 204
1 MR. WILLIAMS:	Page 204 capabilities? Can that land on the water like
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line,	Page 204 capabilities? Can that land on the water like the S-92 with the floats?
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on	Page 204 capabilities? Can that land on the water like the S-92 with the floats? MR. BURT:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide.	Page 204 capabilities? Can that land on the water like the S-92 with the floats? MR. BURT: A. The S-61 is actually a certified amphibious aircraft.
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN:	Page 204 capabilities? Can that land on the water like the S-92 with the floats? MR. BURT: A. The S-61 is actually a certified amphibious aircraft. MS. O'BRIEN:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though.	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't -
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS:	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me?	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water.
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN:	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you.	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay.
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS:	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No.	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few.
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT:	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No.	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat.
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN:	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN:
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make 18 any more of that. We just have a bit of a	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found 18 out during your presentation that you now have 19 an S-61, the question came up to me is if all
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make 18 any more of that. We just have a bit of a - 19 MR. BURT: 20 A. It's an assessment from their aviation	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found 18 out during your presentation that you now have 19 an S-61, the question came up to me is if all 20 your fleet here in St. John's and your first
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make 18 any more of that. We just have a bit of a - 19 MR. BURT: 20 A. It's an assessment from their aviation 21 departments and they do, you know, a great of	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found 18 out during your presentation that you now have 19 an S-61, the question came up to me is if all 20 your fleet here in St. John's and your first 21 responder fleet is of the same type of
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make 18 any more of that. We just have a bit of a - 19 MR. BURT: 20 A. It's an assessment from their aviation 21 departments and they do, you know, a great of	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found 18 out during your presentation that you now have 19 an S-61, the question came up to me is if all 20 your fleet here in St. John's and your first 21 responder fleet is of the same type of
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make 18 any more of that. We just have a bit of a - 19 MR. BURT: 20 A. It's an assessment from their aviation 21 departments and they do, you know, a great of 22 analysis on, you know, what is acceptable to 23 them.	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found 18 out during your presentation that you now have 19 an S-61, the question came up to me is if all 20 your fleet here in St. John's and your first 21 responder fleet is of the same type of 22 aircraft. So if all your fleet here in St. 23 John's is S-92 and all of a sudden an
1 MR. WILLIAMS: 2 A. I think Transport Canada has the base line, 3 but all of our contracts has an insert on 4 pilot qualifications and what they, as a 5 particular customer, wants us to provide. 6 MS. O'BRIEN: 7 Q. Okay. They said you provided it though. 8 MR. WILLIAMS: 9 A. Pardon me? 10 MS. O'BRIEN: 11 Q. They said that that insert came from you. 12 MR. WILLIAMS: 13 A. No. 14 MR. BURT: 15 A. No. 16 MS. O'BRIEN: 17 Q. Okay. So we just have a and I won't make 18 any more of that. We just have a bit of a - 19 MR. BURT: 20 A. It's an assessment from their aviation 21 departments and they do, you know, a great of 22 analysis on, you know, what is acceptable to	Page 204 1 capabilities? Can that land on the water like 2 the S-92 with the floats? 3 MR. BURT: 4 A. The S-61 is actually a certified amphibious 5 aircraft. 6 MS. O'BRIEN: 7 Q. So it doesn't - 8 MR. BURT: 9 A. It's certified to land on water. 10 MS. O'BRIEN: 11 Q. Okay. 12 MR. BURT: 13 A. One of the few. 14 MR. WILLIAMS: 15 A. It's a boat. 16 MS. O'BRIEN: 17 Q. Okay. Because one of before I had found 18 out during your presentation that you now have 19 an S-61, the question came up to me is if all 20 your fleet here in St. John's and your first 21 responder fleet is of the same type of 22 aircraft. So if all your fleet here in St.

February 4, 2010	Multi-Page TN	Offshore Helicopter Safety Inquiry	
Pa	ge 205	Page 207	
would be in a situation here in St. John's	1	Gander and they actually stayed in town for	
where we don't have a first responder	2	awhile until we had that support here in St.	
helicopter. Now, right now, we have an S-6	51, 3	John's.	
4 but before, there had been times, I	4 MS. 0	O'BRIEN:	
5 understand, that we've only had the S-92s	5 Q.	Okay.	
6 here. So I just wanted to get you to explain	6 MR.	WILLIAMS:	
7 a bit of you know, you've probably thoug	ht 7 A.	So it was sort of like a three party, the	
8 of that before I did, so you know, what's to	8	operator's requesting to bring in a machine,	
9 happen if you -	9	we supplying it and 103 Gander really	
10 MR. BURT:	10	supporting us until we were in a good posture.	
11 A. What you're saying is accurate, an AD wou	ild 11 MS. 0	O'BRIEN:	
ground the fleet, it has happened in the past,	12 Q.	Okay, thank you. The other question, we heard	
it has happened in our industry and for	13	a bit about when we heard evidence about the	
example, on March 12th how we handled i	t is 14	PLBs, this is from Colonel Drover about how	
that we brought a S-61 in and the operators	5 15	his helicopters had to have equipment on board	
encouraged us to bring it in and helped us to	16	that could detect the homing signals being	
do so and it provided a SAR standby, so that	17	sent from the PLBs to really home in on them	
was a proactive thing on the operators and o	our 18	and you had to have receiver technology,	
company to do so. The aircraft that's here	19	obviously on the helicopters attuned to those	
right now has that capability and together	20	frequencies to pick up the beacons, I'm	
with the operators, it's here right now under	21	assuming that your helicopters have that	
22 retainer as well.	22	receiving and homing device, is that correct?	
23 MS. O'BRIEN:	23 MR.	WILLIAMS:	
24 Q. When you had to bring it in, where did yo	u 24 A.	Two of our four does.	
25 have to bring it in from, like are we talking	25 MR.	BURT:	
Pa	ge 206	Page 208	
1 west coast Canada.	1 A.	Two of our four aircraft have it, yes.	
2 MR. WILLIAMS:	2 MS. 0	O'BRIEN:	
3 A. Victoria.	3 Q.	So does that mean that there would be	
4 MS. O'BRIEN:	4	sometimes helicopters who are in the first	
5 Q. So that presumably would take some time to	-	response posture who do not have that	
6 the helicopter over, how long does it take to	6	equipment on board?	
7 get a heliconter such as that from Victoria to	7 MD	WILLIAMS.	

- 7 get a helicopter such as that from Victoria to
- 8 St. John's?
- 9 MR. BURT:
- A. It would be about four days.
- 11 MS. O'BRIEN:
- 12 Q. Okay, so then that would be a time when we 13 would say have four days where we didn't have
- 14 a first responder helicopter.
- 15 MR. BURT:
- A. Yeah, you'd be looking at a stance of, you 16 17 know, talking to Gander and say we have a special situation here, we have -18
- 19 MR. WILLIAMS:

- 20 A. March 12th was a good example of how we 21 handled that, the immediate request came from
- 22 the operators once we knew the 92's were on
- the ground for awhile, the immediate request 23
- 24 from the operators was for me to mobilize a S-
 - 61. We did that in liaison with 103 Rescue in

- 7 MR. WILLIAMS:
- A. Yes, that could be correct, and I wish, that 8
- could be something -- but we do have a 9
- technique that our flight operations folks 10
- 11 could really provide you of how we manage that
- Whiffen aircraft that does not have the homing 12
- 13 device. There is a procedure and a mechanism
 - to still really detect the PLB, so I could
- bring back that procedure to you, I can't 15
- 16 explain it because it's fairly technically,
- 17 but we do--yes, we do have a mechanism and a
- procedure to detect a PLB transmission. 18
- 19 MS. O'BRIEN:

- 20 Q. Is it as good as having the actual receiver
- 21 equipment on board the helicopter?
- 22 MR. BURT:
- A. It's more complicated. 23
- 24 MR. WILLIAMS:
- 25 A. And I might add that we are moving towards

Multi-Page TM **February 4, 2010** Offshore Helicopter Safety Inquiry Page 209 Page 211 North America with auto hover and the putting homing in under the direction of our 1 1 operators there has been a request for 2 2 certification is so outdated, speaking about information on the homing for the other two the devices that are flying in the UK, albeit 3 3 parts and all that good stuff, so that's a for a pseudomilitary application you can keep 4 4 process that's on the go to bring all of our that grandfathered certification, but the FAA 5 5 fleet to a standard for homing equipment. and Transport Canada wouldn't even look at it 6 6 MS. O'BRIEN: from an auto hover point of view, so it left 7 7 us saying that we had, you know, you couldn't 8 Q. Okay. Those are all my questions, thank you 8 very much and thank you for the time, embody auto hover as well. 9 10 Commissioner. 10 COMMISSIONER: 11 COMMISSIONER: Q. So it's because of its age as a design, is it? 11 Q. Thank you, Ms. O'Brien. While it's in my 12 MR. BURT: 12 mind, you mentioned a moment ago in response A. It's age and its base systems, it's an analog 13 automatic flight control system, a to something Ms. O'Brien mentioned about the 14 14 S-61, that it's an amphibious helicopter? stabilization system and the analog system 15 15 16 MR. BURT: 16 does not match well with the current navigation and autopilot systems which are all A. Yes. 17 17 digitally based serial buss control. 18 COMMISSIONER: 18 19 COMMISSIONER: O. First time I've heard that term, what does that mean? Q. You know, in reading about what they're doing 20 20 in the North Sea and I've been doing that now 21 MR. BURT: 21 22 A. It is certified under its type certificate to 22 for some months and I've heard the S-61 land on water as an amphibious type rating. referred to as the venerable -23 23 24 COMMISSIONER: 24 MR. BURT: Q. As a plane -A. Yes. 25 Page 210 Page 212 1 MR. BURT: 1 COMMISSIONER: A. It literally has a boat, amphibious rating and Q. S-61, which would indicate its age, but also I 2 that was always one of the strong points of get the impression that it's a good solid 3 3 why it's been used in Navies over the years workhorse and they're using it for Search and 4 4 5 and military have extraction and take off Rescue in the North Sea still? procedures which they call water bird, it's 6 MR. BURT: 6 all based on amphibious operations, so yes, it 7 7 A. Yes, and again for us, we're one of the has a boat hull, it actually looks like a boat largest S-61 operators in the world, our 8 8 underneath. company. We have three in a search and rescue 9 configuration, very high end and we build all 10 COMMISSIONER: 10 the kits. We use them in heavy lift 11 Q. I see. In terms of response, would that be a 11 12 12

13

14

15

16

17

18

19

20

21

22

23

24

25

superior aircraft to, say the S-92 or not?

13 MR. BURT:

14 A. The S-61--I love the 61 and flown it for a 15 long time, it's been the workhorse, it is an older design standard. 16

17 COMMISSIONER:

Q. I know that, yes, 18

19 MR. BURT:

A. But very robust, it does have the advantage of 20 a boat hull, but in many cases, for example 21 the certification won't sustain putting 22 rotorcraft icing on the aircraft. You can't 23 get a de-iced S-61. You can't get a S-61 now, 24 for example, we tried to bring in a S-61 in 25

operation, such as we talked about our flare tip and we use them moving drill rigs around the jungles, et cetera, et cetera, and it's a very reliable aircraft and we have a large affection towards the aircraft itself. And I will say that we've also had a significant development on the S-61 in the last six years that there was a new rotor system designed for the S-61 and it was a higher performance rotor system that simply just bolted onto the aircraft and effectively gave the aircraft a 12 percent increase in performance just because of a bolt on new rotor blade design,

so that's provided us with an extra level of

February 4, 2010	Multi-Page	Offshore Helicopter Safety Inquiry
	Page 213	Page 215
1 less vibration and greater performance in	1	provided, the presentations and that stuff
2 either lifting and or fuel burn. So it really	2	demonstrate our commitment to safety and
3 has just taken the life of the 61 and moved it	3	safety here on the east coast of Canada for us
4 forward.	4	is extremely important. And I want to make
5 COMMISSIONER:	5	sure that it's our intent to lead and not to
6 Q. I see, okay, thank you. I'd like to think	6	follow and to compliment the development of
7 about this, I may seek more information on	7	safety standards in the offshore environment.
8 that. It's a whole new concept to me what	8	As I said on my opening statement, March 12th
9 you've just been talking about. And, of	9	was a very significant and personal day for me
course, any information I get will be shared.	10	and it's a day that we shouldn't forget. We
Anyway, Mr. Whalen, coming to you now, w	ould 11	should take that and honour those that were
you like a break before asking any questions?	12	lost on that date with a commitment to improve
13 WHALEN, Q.C.:	13	our business and that's a very personal
14 Q. I think it may be helpful, I may have one	14	commitment on my part. I want to thank the
15 question, I'd like to consult with my client	15	members of my company and my team, how they
and maybe I'll have a few after, but I can	16	have been dedicated and resolved to make sure
assure you it won't be very long.	17	we communicate that as effectively as possible
18 COMMISSIONER:	18	and then finally, I want to thank Commissioner
19 Q. Oh no, that's all right. We'll take a break	19	Wells, yourself, for opening it up and making
now then and you can do whatever you have	to 20	us feel comfortable here so we can talk
21 do.	21	clearly and how supportive your staff has been
22 (RECESS)	22	as well. And at the end of the day, our goal
23 COMMISSIONER:	23	is as I've seen everybody that I've heard from
24 Q. Yes, Mr. Whalen.	24	today, our goal is to make this a better and
25 WHALEN, Q.C.:	25	safer industry at the end of the day, so thank
	Page 214	Page 216
1 Q. Thank you, Mr. Commissioner, I have	e no 1	you very much.
a annotions but I think Mr. Dont mould like	4.5	I) HIGGIONED

2 COMMISSIONER:

- Q. Okay, thank you, Mr. Burt, thank you all of you for your assistance in this regard. Now,
 - I'm going to ask you if you wouldn't mind
- 6 moving out of that position you're in now,
- because Mr. Roil wants to raise a completely
 - different matter with the group, okay, so you
- 9 can just withdraw there.

10 ROIL, Q.C.:

5

8

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25 COMMISSIONER:

Q. Yes, Commissioner, as you are aware and I've met some of the people are certainly aware, a number of months ago the Government of Newfoundland indicated that it wished to make a written submission to the Inquiry. That submission has been received and the counsel for the government, Ms. Laura Laengle is here and will introduce or speak to it and ask you to accept it as an exhibit. Once you have done that, we have given it the number anticipating acceptance of Exhibit P-00183, but I think that should await the description of what the document is and why it's being submitted by Ms. Laengle.

- questions, but I think Mr. Burt would like to
- have a few concluding remarks, if that's
- 4 acceptable.
- 5 COMMISSIONER:
- 6 Q. Yes, I see. You would like to say something,
- 7 Mr. Burt, would you?
- 8 MR. BURT:
- 9 A. If you wouldn't mind.
- 10 COMMISSIONER:
- 11 Q. All right then, go ahead.
- 12 MR. BURT:

24

25

13 A. I just wanted to clarify on the issue of night flying. I want to make sure that you 14 understand that the decision to fly at night 15 is the pilot in command's decision. We do 16 17 have a co-dispatch authority, but I want to be clear, there's one person that makes that 18 19 final decision is the pilot command. I just had a thought about that for clarity sake. 20 The other thing is I would like to have an 21 22 opportunity just to provide a few closing 23 comments, we opened up with them and it is my

hope and my team's hope that over the last two

and a half days that the information we have

	Page 217		Page 219
1 (). All right then, thank you. Ms. Laengle?	1	matters relating to the proposed amendments to
2 MS.	BROWN LAENGLE:	2	the Accord Acts or the development of
3 (). Thank you Commissioner. The Government of	3	regulations. In 1992, the Federal Accord Act
4	Newfoundland and Labrador's submission to the	4	and the Newfoundland and Labrador and Nova
5	Phase 1A of the Inquiry, the data collection	5	Scotia Accord Acts were amended in order to
6	phase, was created as a result of discussions	6	implement a number of major recommendations
7	with Inquiry counsel regarding how government	7	flowing from the Ocean Ranger Royal Commission
8	could best contribute information to this	8	and the Harrison Task Force Report. These
9	phase of the Inquiry. As a result of these	9	amendments had an unforeseen impact upon the
10	discussions, we understood that it would be	10	ability of governments to make occupational
11	helpful to provide information on the	11	health and safety regulations under the Accord
12	regulatory framework of the Newfoundland and	12	Acts. Given that ambiguity, the C-NLOPB uses
13	Labrador offshore are and our completed	13	terms and conditions of work authorizations as
14	submission is a result of inter-departmental	14	a means to ensure a comprehensive and
15	consultation and collaboration. The	15	enforceable occupational health and safety
16	submission's purpose is to inform the Inquiry	16	regime for offshore workers. The overall
17	about the history of the Accord Act and the	17	safety of individuals in the offshore area is
18	Atlantic Accord Agreement. The submission	18	protected under this regime. Amendments are
19	also seeks to clarify the roles of the various	19	underway to provide regulation making
20	parties, the amendment procedure for the	20	authority for occupational health and safety
21	Accord Acts, the regulatory power under the	21	under the Accord Acts, ensuring a
22	Accord Acts, the regulatory power under the Accord Acts and to provide an overview of the	22	comprehensive legislative occupational health
23	current process involved in the current Accord	23	and safety regime for the offshore.
24	Acts amendments.	24	As well, C-NLOPB is a party to the
25		25	memorandum of understanding between the
23	The submission outlines the general	23	
١.	Page 218		Page 220
1	principles of occupational health and safety	1	Government of Newfoundland and Labrador and
2	principles of occupational health and safety which are the basis for both onshore and	2	Government of Newfoundland and Labrador and Natural Resources Canada concerning the
2 3	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety	2 3	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the
2 3 4	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the	2 3 4	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore
2 3 4 5	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is	2 3 4 5	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be
2 3 4 5 6	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and	2 3 4 5 6	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada,
2 3 4 5 6 7	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord	2 3 4 5 6 7	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are
2 3 4 5 6 7 8	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly	2 3 4 5 6 7 8	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate
2 3 4 5 6 7 8 9	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the	2 3 4 5 6 7 8 9	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to
2 3 4 5 6 7 8 9	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and	2 3 4 5 6 7 8 9	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative
2 3 4 5 6 7 8 9 10	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management	2 3 4 5 6 7 8 9 10	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the
2 3 4 5 6 7 8 9 10 11	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the	2 3 4 5 6 7 8 9 10 11	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the
2 3 4 5 6 7 8 9 10 11 12 13	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial	2 3 4 5 6 7 8 9 10 11 12 13	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the
2 3 4 5 6 7 8 9 10 11 12 13 14	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The	2 3 4 5 6 7 8 9 10 11 12 13	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and
2 3 4 5 6 7 8 9 10 11 12 13 14 15	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is responsible for the management of petroleum	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was embarked upon. Representatives from both the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is responsible for the management of petroleum resources in the Newfoundland and Labrador	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was embarked upon. Representatives from both the C-NLOPB and the Canada Nova Scotia Offshore
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is responsible for the management of petroleum resources in the Newfoundland and Labrador offshore area, including the administration of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was embarked upon. Representatives from both the C-NLOPB and the Canada Nova Scotia Offshore Petroleum Board have also been full
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is responsible for the management of petroleum resources in the Newfoundland and Labrador offshore area, including the administration of Accord Acts and Regulations. The C-NLOPB, as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was embarked upon. Representatives from both the C-NLOPB and the Canada Nova Scotia Offshore Petroleum Board have also been full participants in this process.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is responsible for the management of petroleum resources in the Newfoundland and Labrador offshore area, including the administration of Accord Acts and Regulations. The C-NLOPB, as Accord Acts Administrator, plays an essential	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was embarked upon. Representatives from both the C-NLOPB and the Canada Nova Scotia Offshore Petroleum Board have also been full participants in this process. In 2005, an agreement was reached on a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	principles of occupational health and safety which are the basis for both onshore and offshore occupational health and safety legislation. The submission also explains the occupational health and safety regime that is currently in place in the Newfoundland and Labrador offshore area. The Atlantic Accord was designed to facilitate the orderly development of the petroleum resources in the Newfoundland and Labrador offshore area and provide a stable and fair offshore management regime for industry and the C-NLOPB was the vehicle created by the Federal and Provincial governments to achieve this purpose. The Government of Canada and the Government of Newfoundland and Labrador are responsible for any amendments to the Accord Acts and the making of regulations. The C-NLOPB is responsible for the management of petroleum resources in the Newfoundland and Labrador offshore area, including the administration of Accord Acts and Regulations. The C-NLOPB, as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Government of Newfoundland and Labrador and Natural Resources Canada concerning the administration of legislation related to the occupational health and safety of offshore workers and a consultative process to be followed by the parties to the MOU. Canada, Newfoundland and Labrador and Nova Scotia are now engaged in a process to formulate amendments to their respective Accord Acts to provide a comprehensive legislative occupational health and safety regime in the offshore area. The number of parties, the complexities and process involved in the subject matter of occupational health and safety, as well as the realities of working within three separate government systems has resulted in a much longer process than was envisaged when the amendment process was embarked upon. Representatives from both the C-NLOPB and the Canada Nova Scotia Offshore Petroleum Board have also been full participants in this process.

Page 223

Page 221 Governments then proceeded to seek a mandate to draft legislation based on this new governance model. Drafting began in 2007 and officials continued to meet in an effort to conclude legal drafting. Officials plan to conduct stakeholder information sessions in early 2010 on these proposed amendments and these amendments will be presented to each jurisdiction's respective cabinet for approval in 2010.

The goal of occupational health and safety is to promote and foster a safe working environment. The longevity of this amendment process has not affected the ongoing regulation of occupational health and safety in the Newfoundland and Labrador offshore area. As noted, occupational health and safety regulations have continued to be imposed in the offshore area through the terms and conditions of C-NLOPB work authorizations.

The Government of Newfoundland and Labrador's submission sets out in more detail the general principles of occupational health and safety that form part of the safety regime which is currently in place in the offshore These documents include requirements respecting employer general duties, occupational health and safety committees and the right to refuse work. The Accord Acts provide for effective enforcement of these conditions.

While it is not a joint submission,
Natural Resources and Natural Resources Canada
is not a party at the Inquiry, the Government
of Newfoundland and Labrador has taken a
collaborative approach to ensure that the
Inquiry has fulsome information and has shared
the submission with officials at Natural
Resources Canada for their comment.

The comments received from Natural Resources Canada were taken into consideration as the submission was finalized. Natural Resources Canada has not expressed any disagreement with any aspect of the information provided in the submission and the Government of Newfoundland and Labrador has every reason to believe that they concur with the contents.

The occupational health and safety are an integral component of the C-NLOPB work

Page 222

area through the provisions of the Accords Acts and as part of the conditions of the work authorizations issued by the C-NLOPB. The proposed amendments will reflect to the extent that they are applicable and practical, provincial or federal occupational health and safety legislative regimes. Where equivalent onshore provisions do not exist or do not reflect the unique nature of the relationship of operators with contractors or the remote nature of the work environment, provisions will reflect C-NLOPB practices have to be consistent with onshore occupational health and safety principles. It is expected that each of the three governments will consider a bill in 2010 that if approved, will be placed before their respective legislatures for debate. In the interim, C-NLOPB will continue to administer and enforce as terms and conditions of work authorizations a set of occupational health and safety regulations entitled "Petroleum Occupational Safety and

Page 224 authorization process and the Government of Newfoundland and Labrador is confident in the administration of this important component of offshore operations and are committed to the future advancement of offshore safety with all responsible parties. The protection of all offshore workers is a paramount importance to all parties involved in the exploration and production of our offshore resources.

We hope that the information provided in our submission will assist you, Commissioner Wells, and the Inquiry as a whole in its important work and we look forward to continuing to participate as the Inquiry moves into its next phases, and I would ask that you accept our submission for your consideration and information.

18 COMMISSIONER:

Q. I do indeed accept the submission and it will become part of the information and evidence before the Inquiry and I might say to you that it's very helpful to me and to everybody with standing here to understand and know what the two governments are doing, vis-a-vis occupational health and safety and also to

Health Regulations" and a supplemental

document created by C-NLOPB called "Other

Requirements Respecting Health and Safety."

accord [18] 69:18 217:17 217:18,21,22,23 218:7

218:17,22,23 219:2,3,5

according [1] 112:23

Accords [1] 222:1

achieve [1] 218:14

acquisition [1] 79:18

action [4] 137:3,4 143:1

Act [3] 49:20 217:17

116:23 117:25

205:11

219:3

219:11,21 220:9,25 223:4

accountable [3] 116:13

accurate [3] 195:21,22

-#- #9 [1] 126:7 *08 [12] 125:6,10 135: 135:19,19,22 136:10, 137:9,13 142:14 147: *09 [11] 121:14 122:1, 123:3 125:10 127:13	
'08 [12] 125:6,10 135: 135:19,19,22 136:10, 137:9,13 142:14 147: '09 [11] 121:14 122:1,	
708 [12] 125:6,10 135: 135:19,19,22 136:10,: 137:9,13 142:14 147: 709 [11] 121:14 122:1,	
135:19,19,22 136:10, 137:9,13 142:14 147: '09 [11] 121:14 122:1,	
135:19,19,22 136:10, 137:9,13 142:14 147: '09 [11] 121:14 122:1,	7
'09 [11] 121:14 122:1,	24
122.2 125.10 127.12	
125:5 125:10 127:15	O
135:20 136:11 139:24	ļ
140:3,3	
-1-	
10 [4] 8:16 75:4,5 89:8	3
103 [4] 184:13 185:3	
206:25 207:9	
11 [1] 141:9	
11th [2] 98:19,19	
12 [2] 8:19 212:23 120 [1] 123:22	
1200 [2] 22:21,25	
125 [1] 123:22	
1250 [1] 141:7	
12th [50] 3:22 4:1 5:18	8
6:10,21 11:5,16 13:17	7
14:4,10,10,24 15:25 1 17:5 35:16 36:23 40:2	
43:19 44:19 45:24 58	
58:19 64:14,19 65:5	17
109:5 110:6,16 111:5 116:11 121:14,20 122	, L). 2
125:24 127:25 128:1	
130:12 131:20 133:20 140:3 142:8 189:2 19	
199:11 205:14 206:20	
215:8	
13 [7] 115:12,14,24 11	7:
117:11,13,14 13:25 [1] 65:7	
13:40 [1] 65:8	
13th [2] 129:9,12	
14:25 [1] 65:10	
14:28 [1] 65:12	
15-20 [1] 67:2	
15/16 [1] 88:10	
155 [1] 115:18	
17 [1] 88:9	
17,000 [1] 87:6	
17,300 [1] 87:8	
18 [1] 8:20	
186 [2] 84:20,22	
18th [4] 11:2 133:9,11 133:24	L
19 _[1] 88:6	
1960s [1] 78:9	
1992 [1] 219:3	
1A [2] 36:10 217:5	
1B [2] 36:11,15	

2 [6] 34:1 35:3 38:19

	Muin-Page
51:16 54:10 109:18	531 [1] 98:20
20 [4] 9:13 152:15 153:10	55 [1] 73:18
186:19	
200 [1] 85:2	-6-
2000 [5] 161:20,20,21,25	6 [1] 42:2
163:15	61 [9] 65:7,10 78:4,4
2005 [7] 78:17,21,24 79:18 80:14 81:8 220:23	80:18 81:10 206:25
2006 [6] 78:24 79:22	210:14 213:3
96:18 97:5 98:10,12	61s [1] 77:17
2007 [3] 78:24 111:18	62 [1] 65:9
221:3	-7-
2008 [4] 5:13 124:12 130:9 143:23	
2009 [13] 4:1 17:5 18:18	737 [1] 78:4 76s [1] 78:2
98:19 100:16 101:23	/ 08 [1] /8:2
110:6,21 111:2,5 116:11	-8-
121:5,21 2010 [8] 1:1 110:23 111:7	80s [1] 77:24
221:7,10 222:16 227:4	871 [1] 82:20
227:10	8th [4] 7:23 159:15
2011 [2] 110:13,25	225:14,22
21 [1] 114:24	
2121 [1] 225:24	
213 [1] 227:5 2200 [1] 108:3	9[6] 115:11,13,22,24,25
22nd [1] 108.3	117:17
24 [6] 9:6 11:10 12:5,11	9,000 [1] 87:15 9001:2008 [1] 112:14
12:16 97:21	92 [3] 86:13 121:5 125:1
25 [2] 114:25 166:6	92's [1] 206:22
25th [3] 96:18 98:10,12	9:30 _[1] 226:4
26,000 [1] 87:11	9th [1] 225:23
26th [1] 102:25 27th [1] 102:25	
28th [3] 123:8 128:23	A-
132:10	a.m [1] 226:4
2A [1] 54:10	ABC [1] 95:19
2nd [2] 100:15 101:22	Aberdeen [1] 151:8
	ability [6] 88:6 186:4,6 186:23 219:10 227:7
-3-	able [6] 37:13 54:12
3,000 [1] 164:3 30 [9] 10:6 18:18 84:22	61:19 94:24 107:9 225:
85:3 90:14,17,21 178:11	aboard [1] 140:6
180:4	above [1] 180:4
30-minute [3] 17:6	absence [1] 145:12 absolute [1] 48:1
18:25 20:24 300 [1] 86:18	absolute [1] 48.1 absolutely [11] 16:6 21
31 [1] 227:5	24:13 25:14 81:24 83:5
31st [1] 97:5	86:16 93:12 104:6 118:
35 [1] 151:7	193:7 accept [5] 156:14 199:2
	216:19 224:16,19
	acceptable [8] 178:17
4 [1] 1:1	180:20,23 188:3,6 201: 202:22 214:4
40 [4] 8:16,22,24 9:10	acceptance [1] 216:21
452 [1] 10:21	access [2] 39:11 72:19
491 [3] 40:12 58:24 158:9	accident [9] 22:17 51:7
4th [2] 227:4,10	66:18 67:25 121:6 142:
-5-	177:16,19 195:5 accidents [4] 48:19,19
5 [1] 29:13	48:23 49:3
5 [1] 29:13 5-10 [1] 28:10	accommodate [4] 74:
20.10	144:8 172:9 179:15

:10	531 [1] 98:20 55 [1] 73:18
	-6-
.25	6 [1] 42:2
	61 [9] 65:7,10 78:4,4
23	80:18 81:10 206:25 210:14 213:3
	61s [1] 77:17
	62 [1] 65:9
	-7-
	737 [1] 78:4
18	76s [1] 78:2
11	
11	-8-
1:7	80s [1] 77:24
ļ	871 [1] 82:20
	8th [4] 7:23 159:15
	225:14,22
	9
	9[6] 115:11,13,22,24,25
	117:17
	9,000 [1] 87:15
1	9001:2008 [1] 112:14
	92 [3] 86:13 121:5 125:13
2	92's [1] 206:22
_	9:30[1] 226:4
	9th [1] 225:23
	Δ
	a.m [1] 226:4
	ABC [1] 95:19
	Aberdeen [1] 151:8
	ability [6] 88:6 186:4,6
	186:23 219:10 227:7
	able [6] 37:13 54:12
)	61:19 94:24 107:9 225:19
11	aboard [1] 140:6 above [1] 180:4
	absence [1] 145:12
	absolute [1] 48:1
	absolutely [11] 16:6 21:5
	24:13 25:14 81:24 83:5
	86:16 93:12 104:6 118:12 193:7
	accept [5] 156:14 199:25
	216:19 224:16,19

/ 08 [1] /8:2	147:10
-8-	actions [2] 50:15,19
	active [2] 7:8 141:9
80s [1] 77:24 871 [1] 82:20	actively [2] 151:6,10
8th [4] 7:23 159:15	Acts [14] 217:21,22,24
225:14,22	218:17,22,23 219:2,5,12 219:21 220:9,25 222:2
	223:4
-9-	actual [2] 99:22 208:20
9 [6] 115:11,13,22,24,25	acutely [1] 158:15
117:17	AD [1] 205:11
9,000 [1] 87:15	add [4] 7:9 69:8 194:18
9001:2008[1] 112:14	208:25
92 [3] 86:13 121:5 125:13	added [3] 5:7 33:23 50:5 addition [2] 73:25 74:12
92's [1] 206:22	additional [10] 5:7 7:4
9:30 [1] 226:4	56:9 63:23 85:14 89:24
9th [1] 225:23	107:23 199:21 200:8,14
-A-	address [3] 54:4 159:17 192:9
a.m [1] 226:4	addressed [4] 66:23
ABC [1] 95:19	135:15 166:15 192:8
Aberdeen [1] 151:8	adds [1] 178:24
ability [6] 88:6 186:4,6	adequately [3] 34:17
186:23 219:10 227:7	170:12 181:4 adhesives [1] 135:3
able [6] 37:13 54:12 61:19 94:24 107:9 225:19	adjourn [4] 28:25 109:17
aboard [1] 140:6	225:22 226:4
above [1] 180:4	adjust [2] 99:1 183:12
absence [1] 145:12	adjustment [1] 225:9
absolute [1] 48:1	administer [1] 222:19
absolutely [11] 16:6 21:5	administration [3]
24:13 25:14 81:24 83:5	218:21 220:3 224:3
86:16 93:12 104:6 118:12 193:7	Administrator [1] 218:23
accept [5] 156:14 199:25	admittedly [1] 166:7
216:19 224:16,19	advance [1] 41:15
acceptable [8] 178:17 180:20,23 188:3,6 201:17	advancement [1] 224:5
202:22 214:4	advantage [1] 210:20
acceptance [1] 216:21	advise [3] 38:17 43:1
access [2] 39:11 72:19	50:13 advised [2] 43:4 100:18
accident [9] 22:17 51:7	advises [1] 59:22
66:18 67:25 121:6 142:19	advising [1] 218:24
177:16,19 195:5 accidents [4] 48:19,19	advisor [1] 105:14
48:23 49:3	advocating [1] 155:25
accommodate [4] 74:5	affect [5] 89:17 104:10
144:8 172:9 179:15	145:21,24 179:12

Offshore Helicopter Safety Inquiry affected [1] 221:14 **affecting** [1] 188:5 **affection** [1] 212:16 **affects** [1] 91:13 **afternoon** [2] 110:4 111:25 **afterwards** [1] 48:9 **again** [45] 4:5,14 13:15 13:17 16:1,9 38:1 49:8 53:16 55:7 58:1 61:6 63:22 64:21 67:20,24 70:6,9 79:25 84:1,2 88:3 100:21,21 118:3 125:16 130:23 134:7 136:25 137:9 141:1 147:14.14 156:22,24 157:7,10 180:19,24 183:10 186:20 187:20 190:10 197:21 212:7 **against** [3] 170:17 181:1 203:8 **age** [3] 211:11,13 212:2 **agencies** [3] 50:21 51:1 52:7 agency [1] 158:12 **agenda** [1] 225:9 **aggregate** [3] 151:14 156:9 185:24 ago [8] 80:19 81:18 116:25 161:14,18,25 209:13 216:13 **agree** [7] 21:5 38:2 40:19 54:20 109:17 169:8 182:4 **agreed** [3] 85:23 160:7 **agreement** [2] 217:18 220:23 **ahead** [4] 56:19 111:8 187:25 214:11 **air** [11] 73:9 160:7,8 162:5,12,16 163:11,21 165:16 178:8 190:17 **aircraft** [119] 4:22,22,25 13:20 14:19 25:21 29:19 32:1 47:4 56:2,6,7,8,8 58:21 59:4,8,13,18,21 60:10,17,21,24 61:24 62:2,12 63:5,14 64:8 66:5,8 67:6 68:8,17 69:7 72:5 73:20 74:4,21 75:6 75:14,25 76:16,19 77:15 79:9,14 80:16,18 81:2,9 85:11,11,13,21,22,25 86:3 89:8 90:3,13 91:22 93:12 95:18 97:1 98:22 98:24 99:2 103:13,20

airport [4] 89:23 168:6 168:12 190:13 airworthiness [12] 29:19 32:1 120:19 121:4 127:11.17 128:13 129:2 133:17 138:9 143:24 204:24 **airworthy** [2] 141:18 143:17 **albeit** [1] 211:3 **alcohol** [1] 9:23 alert [20] 59:9 60:22,23 120:8 121:10,11,16,18 121:23 122:14,18 125:11 127:12 131:23 133:11 135:16 138:8,17 139:23 140:15 **alerting** [1] 133:17 **alive** [2] 67:23 68:15 **Allison** [1] 66:4 allocated [1] 225:11 **allow** [11] 13:3 15:4 28:18 38:5 39:20 72:7 108:1 146:1 159:22,25 179:8 **allowance** [1] 10:4 **allowed** [2] 10:11 73:17 **almost** [4] 78:4 129:24 193:4 196:11 **alone** [1] 45:23 **along** [6] 37:8 52:11,13 56:16 163:23 178:16 **alternate** [9] 56:21 88:20 88:21 89:23 90:13,13 107:2,10,23 **altimeter** [2] 74:13 80:1 **altitude** [1] 73:9 **aluminum** [1] 23:3 always [13] 5:19 12:13 52:22 88:19 107:20 108:5 142:6 154:19 166:16 177:10 184:10 185:5 210:3 **ambiguity** [1] 219:12 **amended** [2] 4:5 219:5 **amendment** [3] 217:20 220:18 221:13 amendments [10] 4:7 217:24 218:17 219:1,9 219:18 220:9 221:7,8 222:4 **America** [1] 211:1 among [3] 26:6 41:18 149:10 **amongst** [1] 141:8 **amount** [5] 92:18 151:14 190:24 196:6 225:10 **amphibious** [5] 204:4 209:15,23 210:2,7 analog [2] 211:13,15 **analysis** [5] 5:12 46:1 164:7 171:24 202:22 **analyze**[1] 171:17 **Andrews** [1] 27:16

announced [1] 14:25 answer [20] 21:7 24:4 36:19 45:16 89:17 101:4 101:8,10 107:17 112:1,2 112:7 147:4.5 150:6 152:11 160:1 175:13 180:6 188:16 **answered** [8] 35:15 43:21 46:15 53:14,21 131:3 138:7 181:4 **answering** [1] 89:21 answers [3] 3:24 147:18 151:22 **anticipate** [2] 64:7 92:7 anticipated [1] 43:7 anticipating [2] 92:22 216:21 anticipation [1] 59:19 **anyone's** [1] 96:17 anyway [2] 109:16 213:11 **apologize** [1] 157:22 **apology** [1] 120:3 **apparatus** [1] 227:8 **appear** [1] 12:20 **appeared** [1] 15:19 applicability [1] 132:12 **applicable** [2] 112:17 application [6] 80:6 81:13 84:5,6 85:1 211:4 **applies** [1] 151:24 **apply** [1] 144:12 **applying** [1] 163:2 appreciate [11] 5:16 17:2 38:25 52:16 54:1 55:1 60:1 165:4 167:4 179:9 188:16 appreciation [2] 138:3 166:12 approach [8] 14:14,18 20:7 28:15 56:17 72:21 91:8 223:11 approached [1] 161:1 approaches [1] 91:9 appropriate [3] 21:7 42:10,11 appropriately [2] 35:2 appropriateness [1] 121:15 **approval** [1] 221:9 **approvals** [1] 160:20 approved [3] 106:9,10 222:16 area [28] 27:18 55:6 56:7 56:13.13 113:16 115:8 130:23 132:14 144:16.17 147:21 150:24 151:17 168:5,8,11 169:8 187:6 190:13 218:7,10,21 219:17 220:12 221:17,19 222:1 **areas** [9] 45:12 55:23

Multi-Page TM 85:19 107:25 111:25 112:7 144:25 151:11 154:24 argument [3] 39:23 52:1 54:8 **arising** [1] 118:18 arms [1] 176:1 arose [2] 14:13 23:19 **arranged** [1] 161:3 arrangements [1] 194:13 **arrival** [1] 60:10 arrive [2] 129:24 132:18 arrived [4] 65:8,9,13 130:2 **arrives** [1] 194:20 **arriving** [1] 129:7 **ASB** [17] 123:6,8 128:22 129:4,5,17,19,20 130:3 130:6,7,10 132:22 139:19 140:22 141:5 142:3 **ASBs** [5] 133:1 138:24 138:24 141:9 144:11 ascertained [1] 102:8 ascertaining [1] 14:11 aspect [5] 27:14 38:10 119:3 155:10 223:19 aspects [5] 49:22 155:6 163:2,3 172:5 assembly [1] 147:11 **assessed** [4] 63:23 132:15 178:16 188:5 assessment [7] 78:7 171:25 181:7,9,10,19 202:20 **assessments** [1] 160:14 **assigned** [1] 94:23 **assist** [4] 4:2 16:1 29:15 224:11 assistance [2] 30:3 216:4 **assisted** [1] 160:6 assisting[1] 198:15 **assists** [1] 198:7 assume [2] 102:24 145:7 **assuming** [3] 156:3 163:1 207:21 **assumption** [1] 30:21 assurance [4] 117:15,20 117:21 198:12 assure [1] 213:17 Atlantic [2] 217:18 218:7 attendance [1] 46:11 attendant [1] 7:4 attention [5] 96:16 99:24 127:1 164:22 225:7 **attitude** [1] 98:22 attuned [1] 207:19 audible [1] 126:4 **audience** [1] 162:14 **audit** [15] 43:14,14,15 106:6.14.17 143:25 144:9 197:14,21 198:1,9,10,21

198:24

audited [13] 106:5,8,9 106:10 112:25 144:3,5 **background** [4] 110:17 197:2,3,4,5,7 203:7 164:14 166:5 176:22 **auditing** [1] 197:13 **backstop** [2] 15:3 16:8 **auditor** [1] 203:8 **bad** [1] 191:25 audits [22] 19:13 20:13 bag[1] 167:22 20:15 24:17,18,19 25:2 **baggage** [1] 168:21 25:7,8 26:2 106:19 **bailiwick** [1] 21:13 110:21,25 111:21 112:8 112:10 113:12 196:24 **balance** (11 99:1 197:5,11 199:12 203:8 **Banks** [35] 3:3,11 55:3 augmentation [1] 72:19 64:22.22.24 66:9 69:14 69:15,25 70:18,23 71:4 **August** [2] 98:18,19 110:1,19 111:13,17 112:2 **Australia** [14] 124:12 112:12 113:8 116:14 125:16 126:11 127:15 119:4 123:12 125:23 128:5 130:10 135:8 136:6 158:4 159:23 160:1,2 136:12,22 141:25 142:14 161:13 162:24 163:17 142:20 143:23 164:23 165:22 197:24 **Australian** [1] 147:2 198:4 **authority** [3] 127:19 **barrier** [1] 171:12 214:17 219:20 **barriers** [2] 185:16,20 authorization [1] 224:1 base [5] 4:23 104:3 authorizations [4] 192:18 202:2 211:13 219:13 221:20 222:3,20 based [13] 4:5,14 15:1 auto [39] 71:7 72:3,6,8 63:11 85:9 103:3 108:18 72:14,16,20,24,24 73:2 154:12 157:13 178:5 73:6,8,14,16,21,21,23 210:7 211:18 221:2 74:6,9 75:24 76:2,3,5,10 **basic** [4] 72:24 73:16 76:15,18 77:15,22,22 85:12 88:16 78:11 79:23 80:7.17 81:2 **basis** [14] 8:19 9:5,9 25:9 186:22,25 211:1,7,9 44:14 45:15,20,23 70:15 automatic [4] 72:18,21 106:12 144:4 153:22 190:18 211:14 192:22 218:2 **autopilot** [1] 211:17 beacons [2] 176:12 **auxiliary** [11] 4:21 82:4 207:20 82:20 83:24 85:25 86:2 bear [1] 125:21 86:7,14 88:12 89:13 **become** [3] 62:4 124:22 91:21 224:20 avail [3] 95:20 107:9 becomes [3] 112:25 108:4 142:12,12 **availability** [1] 184:12 **began** [1] 221:3 **available** [3] 85:10 begin [3] 110:21,25 226:4 190:11 226:1 **beginning** [3] 22:10 average [1] 180:5 48:18 85:20 aviation [13] 18:17 20:22 **behalf** [1] 225:24 26:8 48:19 127:18 138:18 138:18 144:10 189:4 **behind** [2] 47:6 112:23 191:6,22 202:20 203:7 **belief** [4] 19:10,19,25 avoid [3] 45:9 88:4 20:3 121:14 **believes** [2] 54:21,23 **avoidance** [1] 139:4 **bell** [2] 151:22 152:3 await [1] 216:22 **bells** [1] 97:6 aware [16] 17:15 82:19 **belong** [1] 26:18 104:15 121:16,18 124:22 belts [1] 98:25 126:12,21 131:23 132:3 beneficial [2] 45:9 158:15 163:15 189:2,13 161:23 216:11,12 **benefits** [1] 171:24 **awareness** [1] 127:6 Bergen [1] 151:8 away [3] 129:6 194:11 **best** [9] 26:6 70:16.19 196:13 148:3 154:8 171:20 awhile [2] 206:23 207:2 177:24 217:8 227:7 axes [1] 73:8 **better** [7] 14:18 17:8 71:13 146:24 154:11 -B-157:9 215:24

b [4] 50:18 54:10 67:20

between [16] 9:10 45:12

CGSB [1] 170:3

Chair [1] 134:10

chance [1] 41:17

CGVCH [2] 103:2,9

challenge [1] 107:20

change [17] 9:9 10:15,17

10:25 44:14 52:15 55:13

February 4, 2010 57:5 107:6,8 114:24 125:4,10 135:19 136:10 138:11 140:3 186:12 191:18,21 219:25 beyond [2] 121:16 200:14 **bidding** [1] 83:15 big [4] 20:17 36:8 128:8 162:11 **bigger** [1] 187:8 **bill** [1] 222:16 bird [1] 210:6 **bit** [24] 36:17 41:3 65:20 67:24 71:8 98:13 110:9 110:14,17 113:3 117:14 159:8,17 164:14,25 169:20 170:21 179:24 186:21 196:24 201:19 202:18 205:7 207:13 Black [1] 83:16 blade [1] 212:24 **blunt** [1] 47:17 **board** [67] 1:14 7:2 14:15 17:13,16,24 18:4 21:10 21:22 22:9 23:5,20,24 24:7 26:19 29:23 30:6 30:22 31:18,25 32:8 37:23 38:10,15 39:3 43:11 45:5 48:21 49:15 49:16 50:7,9 51:5,7,22 53:8,13,20 65:11 71:1 89:19 99:5,13 100:23 102:16 103:1,8 152:24 153:16,23,25 154:6,8,10 154:16,20 155:6 156:1 156:14.18 190:2.25 192:20 207:15 208:6,21 220:21 **Board's** [1] 50:4 boat [7] 65:25 66:16 204:15 210:2,8,8,21 **bodies** [2] 50:22 68:14 body [2] 39:2 48:21 **bolt** [1] 212:24 **bolted** [1] 212:21 **bolts** [13] 22:3,8,11,11 22:19,20 23:2,6,8,11 136:12 140:13 197:23 **book** [1] 146:14

bottle [3] 160:8,18 164:4 **bottles** [2] 8:8 162:16 bottom [1] 16:11 **bought** [5] 72:1 75:24 79:6 84:24 85:5 boundaries [1] 24:6 bowl [1] 147:10 brass [1] 23:4 **breached** [1] 38:6 break [6] 28:11 29:3 109:16 196:12 213:12,19 **brief** [2] 56:24 183:20 **bring** [14] 15:21 38:2 125:21 127:1 181:3

189:17 205:16.24.25

207:8 208:15 209:5

210:25 225:6 **brings** [1] 16:25 **broad** [5] 26:24 50:25 51:2 119:20 156:20 **broader** [1] 146:22 **broke** [1] 137:5 **brought** [9] 38:1 75:4 99:23 125:1 127:8 155:13 155:14 159:24 205:15 **Brown** [7] 2:20,21 34:13 34:14,21 217:2 225:3 **budget** [1] 26:7 **build** [2] 187:22 212:10 **building** [1] 198:8 **bulletin** [18] 22:10 121:23 122:15,19 123:17 125:11 127:12 131:24 132:3,9,11 133:12,16 135:16 138:9,17 139:23 140:15 **bulletins** [4] 120:8 121:11,12,19 **bunch** [1] 171:22 **buovant** [1] 67:4 **burn** [1] 213:2 **Burt** [370] 3:3,7 4:3 5:5 5:6,16,21 6:2,6,11,17,22 7:7,14,18 8:2,13,25 9:4 9:14.18 10:7.12.16.22 12:25 13:8,14 14:5,21 15:12,23 16:5,12,18,22 18:10 44:11 45:14,16 53:22 55:3,10,21 57:7 57:23 58:4,10,25 59:6 59:17 60:3.14 61:4.22 62:9,14,20 63:1,9 64:10 64:17 71:13,16,20 72:4 72:13,23 73:3,7,12,22 74:1,7,18,23 75:3,10,16 75:21 76:1,6,14,25 77:7 77:12,16,20 78:6,13,18 78:23 79:3,8,13,19,24 80:10,15,23 81:5,15,19 81:23 82:5,10,21,25 83:4 83:10,25 84:9,15,19,25 85:8 86:5,15 87:2,7,12 87:17,22 88:2,14,25 89:1 89:10,15 90:9,16,22 91:1 91:17,23 92:3,11,25 93:8 93:16,19,24 94:7,20 95:5 96:21 97:7,12 99:7,16 101:18 102:17 103:4,24 106:7,15 107:3,16 108:20 108:25 109:8 110:1 113:20,24 114:5,10,19 114:23 115:3,15 116:4 116:12,22 117:4,19 118:5 118:11,24 119:9,22 120:2 120:11,16,21,25 121:7

139:17,25 140:8,21 141:14,21 142:1,17 143:7 144:2,22 145:4,10,18,23 146:4,23 147:7,23 148:7 148:12,18,22 149:2,13 149:17,25 150:10,21 151:2 152:6,17,21 153:3 153:12.20 154:2.15 155:18 156:8,21 157:2 158:4,24 159:5,14,21 163:19 164:18 165:5,20 166:1 167:3,24 168:13 169:18 170:14,24 171:3 172:15,19 173:2,8,12,24 174:7,12,21 175:2,11,19 175:25 176:7,11,16,20 177:3,12 178:4 179:20 180:10,18 181:11,15,23 182:3,18 183:1 184:8,18 187:10 188:17 189:19 190:9,22 192:2,12 193:7 194:9 195:9 197:20 198:22 199:7,13 200:6 200:19,23 201:8,24 202:14.19 203:6.10.17 204:3,8,12 205:10 206:9 206:15 207:25 208:22 209:16,21 210:1,13,19 211:12,24 212:6 214:2,7 214:8,12 216:3

Burton [1] 199:17 **business** [9] 13:7 59:9 91:12 138:18 141:2 143:10 184:20 188:4 215:13

buss [1] 211:18 **buy** [1] 74:21

-C-

C [6] 50:13 54:10 66:22 67:20 189:7 192:9

C-NLOPB [27] 27:8 31:12 32:9 34:16 49:9 49:15 50:16,17 52:8 149:21 152:25 161:21 189:1,25 192:16 218:12 218:18.22 219:12.24 220:20 221:20 222:3,12 222:18,24 223:25

C-NLOPB's [1] 49:23

C-spine [1] 68:2 **cabin** [4] 7:4 85:13 100:17 101:22 cabinet [1] 221:9

CADORS [9] 189:3,8 189:16,25 190:10,25 191:18,22 192:8

calculate [1] 64:2 calculations [1] 56:22 calls [2] 46:9 68:11 cameras [1] 167:14

Canada [58] 1:20 4:11 4:16,20 13:18 26:24 32:25 33:3 48:18 49:21 50:9,23,23 84:14 85:15 85:23 91:2 106:11,14,16 106:17 107:21 110:13,15 110:22 116:24 117:2,5

118:3,14 142:5 143:15 143:16 144:5 145:13,13 160:21 167:11 168:10,25 170:15 178:9 189:25 200:15 201:1.3 202:2 206:1 211:6 215:3 218:15 220:2,6,20 223:8,14,16 223:18

Canada's [2] 29:23 189:3

cannot [1] 63:6 capabilities [1] 204:1 **capability** [5] 5:2 25:21 76:7 188:10 205:20

capacity [3] 72:3 81:3 88:22

CAPP [3] 1:24,25 33:1 **captain** [3] 40:11 64:1 158:9

care [2] 66:19 68:4 **career** [1] 178:25 careful [3] 28:14 52:23 164:11

carried [1] 49:18

carry [2] 88:6 89:24 case [13] 20:2 54:25 66:18 69:9 70:16.19 117:20 120:14 149:21 186:13 194:12 203:14 225:10

cases [5] 56:19 91:9 151:9 179:21 210:21 **categorize** [1] 134:15 categorized [1] 189:24 category [1] 91:3 caused [2] 44:19 126:10 causes [3] 14:15 22:14

51:8 **caution** [1] 88:24 **cell** [1] 167:14 **Centre** [1] 2:15 centred [11 21:12 centres [2] 151:8 156:24

CEP [3] 2:25 225:24 226:5

certain [7] 55:1 87:20 151:7 167:9.12 189:4 201:10

certainly [21] 20:18 31:18 37:24 40:19 61:8 61:23 68:21 69:4 70:24 84:5 86:9 128:8 138:3 139:4 150:24 177:19 184:9 192:13 193:24 197:1 216:12

certificate [2] 209:22 227:1

certification [11] 73:14 76:18 80:4,6,20 81:3,14 112:15 210:22 211:2.5

certified [13] 72:8 75:20 76:16,21 80:9 86:8 93:12 93:13 95:14 96:11 204:4 204:9 209:22

certify [1] 227:2 cetera [2] 212:14,14

55:14,15,17 56:14 59:3 59:20 90:18 164:6,25 199:11 **changed** [7] 7:17 10:20

22:21 56:20,24 57:14 93:17

changes [15] 10:3 12:21 25:11,17 26:21 44:13,20 45:7,7,8 52:6,6 56:19 57:5 163:25

Channel [1] 94:13 characterizing [1] 152:10

charge [1] 164:4 **charged** [1] 142:4 **chart** [4] 115:9 116:1,18 126:7

chartering [1] 89:8 CHC [1] 160:5

check [3] 97:15 102:18 184:11

checking [6] 19:13 20:7 20:11,13 167:19 168:2

checklist [7] 4:7,8,9,10 4:13 15:5 144:13

checks [1] 19:24 **cheese** [2] 185:16 187:7 **chief** [4] 116:9 126:14 127:2 189:1

chip [2] 103:13,17 **choose** [2] 37:4 172:13 chose [1] 49:24

chosen [1] 47:4 **Christmas** [1] 106:23

Cindy [1] 227:11 **circles** [1] 76:8 **circulated** [1] 41:15

circumstance [2] 64:6 91:20

circumstances [3] 21:14 21:17 51:20

cite [1] 146:5 **cited** [3] 146:17 191:10 191:15

civilian [2] 84:6 177:5 **claiming** [1] 77:10 clarification [2] 110:8

188:21 **clarified** [2] 3:15 31:15 **clarify** [6] 111:16 132:2 151:4 177:4 214:13

217:19 **clarity** [2] 33:23 214:20 **clear** [13] 3:21 11:15 19:4 35:18 43:11 44:16,17 74:9 101:21 172:1 175:15

121:22 122:2,7,13 123:4

123:18,24 124:3,8,14,19

124:23 125:7,14 126:18

126:22 127:4,20 128:2,7

132:1,7,25 133:15,19,25

134:4,14,21 135:11,21

136:2,7,18,23 137:8,17

137:22 138:2,16 139:13

128:17,21 129:3,11,16

129:21 130:1 131:14

185:9 214:18 **cleared** [1] 191:21 **clearer** [1] 53:25 clearly [5] 31:23 42:2 47:17 177:25 215:21 **client** [1] 213:15 **clients** [6] 36:16 37:12 37:12 38:13 40:25 41:19 **close** [3] 28:16 155:1,13 **closed** [3] 47:7 48:6 100:20 **closely** [1] 21:10 **closing** [1] 214:22 **co-dispatch** [1] 214:17 **coast** [8] 85:15 113:23 113:25 138:15 149:24 201:1 206:1 215:3 cockpit [4] 14:20 15:19 74:15 172:7

codispatch [3] 55:7 57:15 58:1

collaboration [1]

collaborative [1] 223:11 **colleagues** [2] 44:4 158:17

collection [1] 217:5 **collective** [1] 18:14 **collectively** [1] 19:5

Colonel [4] 65:4,20 174:17 207:14

Combined [1] 132:17 comfort [5] 19:20 47:2 48:2 180:17 197:18

comfortable [4] 94:24 96:4 178:24 215:20

coming [10] 10:21 47:21 65:19 129:12 168:7 177:10 179:9 187:25 213:11 225:18

command [2] 55:24 214:19

command's [1] 214:16 **commenc** [1] 32:11 **comment** [13] 28:5 32:5 32:17 41:17 42:22 44:1 111:12 156:9,22 164:21 169:21 200:7 223:14

comments [11] 4:9 28:11 31:15,19 32:6 33:22 34:24 42:15 156:12 214:23 223:15

commercial [1] 85:22 **Commission** [6] 30:10 30:13 53:16 121:17 174:18 219:7

Commissioner [134] 1:2 1:12,16,18,22,23 2:3,4,8 2:11,12,18,22,23 3:2 17:7,17,20 18:1,22 19:1 19:9 20:8,12 21:4,19,24 22:3,5 24:12,20 25:1,6 25:13,23 26:4,13,16 27:22 28:4,9,21 29:4,10 30:19 31:7,11,14 32:19

32:23 33:4,8,13,17,20 34:4,11,18 35:5,9 36:13 37:18 39:4,22 40:2,3,7 42:17,25 43:24 44:3 46:3 46:10 48:11.17 50:11 51:4 52:10 53:24 54:6 54:14,19 61:18 63:3 64:3 96:1 97:15.19 100:5 101:16 109:12.22.25 122:21 130:16 131:1,25 134:10 147:16,20 148:1 149:6,6,9 150:25 157:25 158:1 196:15,16,20 209:10,11,18,24 210:10 210:17 211:10,19 212:1 213:5,18,23 214:1,5,10 215:18 216:2,11,25 217:3 224:11,18 225:6 226:2

Commissioner's [1] 29:15

commit [1] 47:17 **commitment** [5] 11:9 59:23 215:2,12,14

commitments [1] 225:20

committed [1] 224:4 **Committee** [3] 11:1 97:3,24

committees [1] 223:3 communicate [7] 104:23 105:2 131:18 141:12,15 152:1 215:17

communicated [4] 104:17 138:25 139:11 142:21

communicating [1]

communication [8] 41:7 68:24 117:6 126:11 126:21 138:10,20 139:18

communications [2] 98:14 141:1

companies [6] 47:23 105:8 114:3 154:10 155:9 156:3

company [22] 95:19 105:19 106:3 111:9 114:12 135:18 138:11 139:22 143:1 158:21 160:9 162:18 163:10 164:19 166:8 178:18,19 181:8 197:18 205:19 212:9 215:15

compared [2] 90:8 189:8 competitors [2] 77:4 108:16

complacent [1] 119:11 **complement** [1] 171:14 **complete** [6] 72:9 88:17 89:24 90:3 132:18 174:2

completed [7] 9:21,24 111:8 112:20,21 160:22 217:13

completely [3] 93:10 100:18 216:7

completion [2] 50:8 80:17

complexities [1] 220:13 compliance [1] 132:20 complicated [1] 208:23 compliment [1] 215:6 compliments [2] 152:24 154:5

comply [1] 142:2 **component** [2] 223:25 224:3

comprehensive [3] 219:14,22 220:10

compressed [5] 162:5 162:12,16 163:21 165:16

compromise [1] 39:1 computerized [1] 8:3 concept [2] 116:24 213:8 conceptual [2] 83:15,20 concern [15] 23:22 24:3 36:8 39:5,7 93:25 94:6 162:12,14 175:18 185:9

concerned [1] 193:22 **concerning** [2] 111:21 220:2

185:25 187:6 189:5 197:1

conclude [1] 221:5 concluded [1] 110:22 concluding [1] 214:3 conclusion [2] 16:16,16 concur [1] 223:22

conditions [18] 40:15 55:16 56:14 63:12,13 66:14 71:2 87:21 90:8 91:11 157:19 172:5,7 219:13 221:20 222:2,20 223:6

conducive [1] 82:15 conduct [2] 56:12 221:6 conducted [1] 145:8 cones [1] 183:18 conference [2] 22:24 57:25

confident [5] 83:3,5 91:5 169:3 224:2

configuration [7] 62:2 71:12,13 83:14,20 95:12 212:10

configurations [3] 71:11,22,23

configure [2] 85:14 95:17

confirm [1] 76:21 confirms [1] 30:24 conflict [1] 50:3 conformance [1] 113:1 conformity [1] 112:5

confronted [1] 19:16 confused [3] 188:23,23 192:1

confusing [2] 190:18 191:23

confusion [2] 36:17 191:17 **conjunction** [1] 4:13 **connected** [2] 49:16 52:3 **consider** [10] 27:20 29:6 37:13 148:3 168:4,11,23 177:10 193:4 222:15 **considerable** [3] 94:12

154:13 193:17 **consideration** [4] 63:25 154:17 223:16 224:16

considerations [2] 70:22 183:21

considered [2] 35:2 168:8

consistent [6] 12:8 37:1 140:5 190:6,6 222:13

constantly [1] 188:7 consult [1] 213:15 consultation [1] 217:15 consultations [1] 225:15 consultative [1] 220:5

consumption [3] 89:5 89:17 90:7

CONT'D_[1] 55:4 contact_[5] 34:24 35:1 105:4,6 194:5

contacting [1] 58:3 contemporaneous [1] 59:7

content [1] 33:12 contentious [1] 163:22 contents [1] 223:23 context [5] 13:16 142:18

146:22 150:5 191:7 **contingency** [1] 91:3 **continue** [3] 37:7 155:10

222:18 **continued** [2] 221:4,18 **continuing** [1] 224:14

65:24 153:21 192:22 **continuum** [1] 119:6 **contract** [3] 106:1

continuous [4] 5:13

143:14 153:19 **contractors** [1] 222:10 **contracts** [3] 83:14 192:17 202:3

contractual [2] 113:10 144:9

contribute [1] 217:8 **contributing** [1] 149:23 **control** [5] 72:18 74:14 169:16 211:14,18

controlled [2] 15:6 63:19

controller [1] 190:17 **convene** [1] 37:25 **conversation** [2] 84:2

conversation [2] 84:2 168:18

cooperated [1] 93:10 **Cormorants** [1] 65:12 **correct** [70] 6:18 7:8,15 8:14 9:15 10:17 11:7,13 12:18 14:6 55:11 61:3 62:15 63:2,4 64:11 71:19 73:4 74:2 75:11,22 78:14 79:4,10,20 81:20 82:4,6 83:9 84:16 90:10 92:4 105:12 108:13,21 113:19 115:4 116:3,5 121:1,6,8 123:19 127:19,23 128:16 128:25 133:3,23,24 134:1 145:5 148:6,8,15,17 150:1 152:10,20 159:13 173:1 177:2 182:17 184:17 193:3 198:5 203:15 207:22 208:8 227:3

corrected [1] 21:3 correlation [1] 186:12 Cougar [44] 1:8 14:17 17:5 18:14 19:5 23:10 24:1 29:7,24 30:7,25 31:16,21 34:6,16,25 38:1 40:18 41:9,9 43:3,4,17 44:13 47:24 50:10 51:25 65:7,9,10 72:12 80:7 103:2,8 108:14 111:4 118:8 135:18 158:17 160:4 174:24 182:11 197:2 199:25

Cougar's [3] 40:13 182:13 201:6

counsel [28] 1:4,6,7,13 1:19,24,25 2:14,19,24 18:7 27:3,3,6 28:10,18 29:7 30:15 35:7,18 40:4 42:25 43:3,9 130:16 158:12 216:16 217:7

count [1] 118:21 **countries** [1] 49:3 **couple** [10] 68:4,16 69:7 74:10 98:15 110:8,24 118:20 120:5 203:22

coupled [1] 72:20 **course** [8] 4:18 9:22 40:16 50:2 124:25 177:17 189:15 213:10

courtesy [1] 185:5 cover [1] 82:14

coverage [2] 39:9,10 covered [2] 34:16 108:10 CQCH [1] 102:10

crack [2] 48:6 102:9 **cracks** [7] 26:3 46:16,19 46:22 48:4,5 102:9

craft [4] 157:16 186:5,7 187:16

crash [8] 14:16 21:14,18 22:13 29:25 45:6 50:11 51:20

crashed [1] 194:2 **created** [3] 217:6 218:13 222:24

credibility [5] 38:7 52:21 53:1,3 54:2

credo [1] 188:4

crew [45] 6:15 7:8,21 8:5 9:6,8,9,11,13 13:22 16:1 29:20 32:2 41:18 56:16 56:23 57:11 59:12,22 103:11 160:7 162:15,23

163:11 165:17,18,25 166:2,19 169:25 170:10 170:12,16,20 171:11,17 172:1 176:25 179:10,11 180:21 183:3,14 187:21 194:15

crews [9] 159:20 161:5 163:4 171:15,23 173:19 178:6,9 203:3

criteria [1] 182:13 **critical** [4] 63:20 66:3 66:19 113:1

criticality [1] 68:22 **Crosbie** [7] 1:15 27:15 27:17,24 31:12,13 32:21

crossed [2] 36:5 37:16 **crossing** [1] 35:24 **culture** [10] 23:9,10,16

118:18 119:18,20 136:14 146:16 178:20,21 **curious** [1] 162:18

currency [3] 183:3,7 200:9

current [8] 89:6,7 98:13 138:6 183:5 211:16 217:23,23

custom [2] 82:4 85:6 **customer** [19] 4:23 11:10 11:20 12:1,3 75:2 85:23 95:11 96:15 104:1,14 106:19 185:2 192:18 193:5 197:8,8 201:9 202:5

customers [8] 89:7 94:22 144:8 197:6,7,13 201:10,12

cut [1] 165:3 **cutoff** [1] 12:6

-D-

D[1] 67:21 **D'Arc**[1] 96:7 **daily**[2] 145:21,24 **dangerous**[6] 27:12 160:20 164:3 168:25 169:2,3 **darn**[1] 179:4 **data**[1] 217:5

database [1] 189:9 date [11] 41:11 86:6,10 97:17 111:2 116:1 133:6 133:7 185:11 188:6 215:12

Dated [1] 227:9 **dates** [2] 133:3 172:16 **daunting** [2] 151:15 164:7

Davis [3] 158:8,13,19 **day-to-day** [1] 184:21 **days** [6] 23:12 118:20

206:10,13 214:25 225:17 **de-iced** [1] 210:24 **deal** [6] 29:13 30:1 84:8 86:19 142:5 143:10

dealing [3] 43:12,19 197:19

deals [1] 43:15 **dealt** [5] 23:20 34:1 43:21

debate [1] 222:18

43:22 143:4

deceased [3] 42:21 110:6 137:20

deceleration [2] 66:18 67:25

December [1] 5:12 **decide** [1] 95:20 **decided** [8] 81:2 93:6 95:22 118:9 155:7 159:18 160:12 190:12

decision [17] 53:2 57:22 57:24 58:8 63:20 66:2 95:15 96:9 110:14,18 140:18 181:3 182:11 184:1 214:15,16,19

decisions [2] 67:7 68:19 Decker [2] 65:11,15 Decker's [1] 66:2 declared [1] 103:11 dedicated [14] 5:8,11,24 5:24 6:21,23 7:13 8:23 106:25 108:16 114:3 150:15 155:8 215:16

deemed [1] 95:14 deepened [1] 151:19 deeper [1] 158:23 deeply [1] 54:23

definitely [1] 163:12 **definitively** [1] 51:21 **degree** [2] 48:2 168:17

delayed [1] 113:2 **delegated** [1] 49:14

delivered [1] 81:9 **delve** [1] 158:23

demand [1] 84:13 **demonstrate** [1] 215:2

departed [1] 100:21 **department** [8] 56:11

132:2,8,14 139:5 140:23 141:6 145:25

departments [2] 198:25 202:21

departs [1] 65:10 depending [1] 186:8 depicts [1] 116:2 depth [1] 151:25 descend [2] 13:22 15:6 descent [10] 4:14 13:7 13:15,23,24,24,25 15:17 18:12 44:15

describe [1] 122:17 **described** [5] 75:1 100:1 117:17 136:25 137:1

description [2] 72:17 216:22

design [7] 85:10,24 86:16 198:17 210:16 211:11 212:24

designed [5] 82:11,13 85:6 212:19 218:8

desirable [1] 160:17 **desire** [1] 145:1

destination [4] 56:5,17 107:22 183:9

destinations [1] 107:7 **detail** [5] 45:15 170:7 192:6 199:18 221:22

detailed [1] 111:22 **details** [3] 61:7,10 137:10

detect [3] 207:16 208:14 208:18

detector [2] 103:13,17 **detectors** [1] 168:22 **determine** [2] 14:15 19:23

determined [4] 15:7 51:19,21 141:24

determines [3] 44:5,7,9 devastating [1] 137:25 develop [1] 22:7 developed [4] 4:11 8:3

13:15,21 **developing** [3] 8:18 22:8 111:4

development [12] 9:19 9:20 13:19 49:17 75:6 111:3,18 146:10 212:18 215:6 218:9 219:2

deviate [1] 91:6 **device** [7] 4:25 159:8,11 164:1 165:8 207:22 208:13

devices [3] 74:14 162:6 211:3

devoted [1] 46:11 **difference** [4] 7:2 180:3 200:1 201:19

differences [2] 175:7 183:16

different [20] 15:22 23:15 42:19 63:17 78:3 97:20 114:17 117:14,16 139:8 165:1,14 169:13 169:14 170:2 175:9 188:2 189:15 190:4 216:8

differently [1] 16:21 difficulty [1] 27:9

dig [1] 61:17 digest [1] 42:13 digital [1] 72:20 digitally [1] 211:18 direct [6] 14:3 117:25 159:10 182:10 186:11

159:10 182:10 186:11 192:15 **directed** [2] 139:6 141:4

direction [4] 28:13 145:12 173:25 209:1 directions [1] 135:1 directive [14] 22:20 23:1 117:2 121:4 127:11,18 128:13,14 129:2,15 133:17 138:10 140:25 204:24

directives [1] 120:20 **directly** [5] 57:18 105:17 116:9 158:13 193:14

director [8] 7:19 116:8 116:14 117:18,22,23,24 126:12

disagree [1] 25:14 **disagreement** [2] 39:24 223:19

disclose [1] 140:16 **Discoveries** [2] 227:12 227:14

discrepancy [1] 190:13 **discretion** [1] 33:15 **discs** [1] 46:7

discussing [1] 168:19 discussions [4] 21:12 161:2 217:6,10

dispatch [3] 55:8 56:11 57:15

dispatched [1] 62:3 dispatcher [5] 57:6,18 57:25 58:3,11

displace [1] 92:18 displaces [1] 92:16 dispute [2] 38:7 121:14 distance [1] 84:8 distant [1] 85:17 distinction [1] 85:16

Distinguishing [1] 159:8 ditched [1] 194:1

ditching [1] 15:9 divided [1] 9:10 division [1] 199:2 DND [3] 108:17 174:18

184:4

DND's [1] 174:19 **document** [3] 216:23 222:24 225:1

documents [1] 223:1 **doesn't** [11] 3:23 5:18 49:8 59:20 89:16 90:17 166:25 178:12 186:23 195:15 204:7

dollar [1] 26:7 done [31] 16:21 21:11 25:8 37:23 46:17,21 48:10 49:7 58:18 71:7 82:3 88:22 95:21 112:24 132:20 143:3 144:12 155:9 161:6 163:8 164:24 165:13 168:2 171:16,25 181:7,8,14 189:14 203:21 216:20

door [4] 68:20 100:17,20 101:22 doors [1] 47:7 double [3] 7:9 67:10 94:1 doubt [3] 186:9 187:19

197:1

down [24] 14:19 15:21 27:25 32:16 37:11 39:16 39:19 47:18 48:13 57:12 60:9,9 62:19 68:21 70:5 84:4 87:6 94:13,15 96:25 179:1,19,21 198:5

draft [3] 41:13,14 221:2 drafting [2] 221:3,5 drastically [1] 97:20 draw [1] 96:16 drawings [2] 83:16,21 drill [3] 94:12 106:25 212:13

dozen [1] 151:10

drilling [2] 94:10,19 **drive** [1] 146:7

driven [2] 57:24 84:14 **drives** [1] 80:4

drops [1] 90:1 **Drover** [4] 65:4,20

174:17 207:14 **drug** [1] 9:23

dry [6] 17:6 18:19 20:24 171:8 172:4,4

dual [1] 72:20 due [3] 103:12 136:12 218:24

during [3] 14:25 200:12 204:18

duties [2] 106:2 223:2 **dvnamic** [1] 55:24

-E-

e [1] 46:8 **e-mail** [2] 11:21 47:11

e-mails[1] 102:12 Earle [227] 2:25 3:1,4,5 3:13 5:3,15,23 6:4,8,13 6:19 7:5,11,16,25 8:10 8:21 9:2,12,16,25 10:9 10:14,18 11:4,8,14,23 12:10,15,19 13:2,4,10 14:2,7 15:10,14 16:2,10 16:14,20,24 17:9,14,19 18:9,24 19:3 20:10,14 21:16,21 22:1 24:9,14 24:23 25:4,15,25 26:12 27:10 30:8 32:18 36:6 36:20 37:6,16,21 39:13 39:20 40:19 43:25 44:2 48:12.15 54:1.5.16 55:4 55:5,12 57:1,20 58:2,6 58:13 59:2,15,24 60:5 60:16 61:11,16 62:6,11 62:17,24 63:4 64:4,5,12 64:20 65:1 69:13,17 70:13,20,25 71:6,18,24 72:10,15 73:1,5,10,19 73:24 74:3,16,20,25 75:7 75:12,18,23 76:4,9,22 77:2,9,14,18,25 78:8,15 78:20 79:1,5,11,16,21 80:3,12,21,25 81:12,17 81:21,25 82:7,18,23 83:2

83:6,22 84:7,11,17,21

85:4 86:1,11,24 87:4,9

87:14,19,24 88:11,23 89:3,12 90:4,11,20,24 91:14,19,25 92:6,21 93:5 93:15,21 94:5,9 95:1,24 96:13,23 97:10,14 98:4 98:11 99:10 100:3,9,14 101:1,5,9,13 102:6,19 102:23 103:6 104:16.21 105:1,9,13,20 106:4,13 106:21 107:5 108:8,22 109:2,10,13 153:7 189:13 189:13 Earle's [8] 32:6 33:24

35:23,24 36:25 37:12 39:15 40:12

early [3] 130:19 188:25 221:7

easily [2] 45:14 67:19 **east** [7] 85:15 113:23,25 138:14 149:24 201:1 215:3

eat [1] 90:21 EC225 [1] 76:20 echo[1] 46:3

163:25

educated [1] 174:1 **effect** [7] 15:8 63:15 139:6 140:24 141:4,7

effected [1] 132:19 **effective** [8] 24:19 25:7 26:2 156:14,18 157:3 166:22 223:5

effectively [3] 67:15 212:22 215:17

efficient [1] 58:20 **effort** [2] 15:4 221:4

egress [4] 96:12 164:2 170:9 172:9

eight[1] 23:14 **eighteen** [1] 131:18

either [9] 11:20 83:17 93:13 95:13 102:24 144:1 158:14 200:11 213:2

elaborate [2] 19:24 20:4 **elaborated** [1] 150:19 electronics [1] 74:5

elements [2] 106:12 187:12

eliminate [1] 92:24 **eliminated** [1] 10:13 **elsewhere** [2] 75:8 153:11

embarked [1] 220:19 embarrassing [1] 166:11

embody [1] 211:9 **emergency** [7] 4:7,24 63:24 96:18 194:6,18 195:14

employees [7] 30:7 40:18 96:3 102:12 182:14 183:25 193:25

employer [1] 223:2 **employment** [1] 146:9 empty [1] 87:6

enclosed [1] 171:9 **encourage** [1] 154:10 **encouraged** [1] 205:16 end [15] 19:7 53:7 66:15 88:24 90:18,18 131:10 138:12 140:19 141:12 157:17 186:5 212:10 215:22,25

ended [1] 66:2 **enforce** [1] 222:19 **enforceable** [1] 219:15 **enforcement** [1] 223:5 engaged [5] 39:13 57:5 123:13,15 220:8

engaging [1] 58:7 **engine** [8] 60:8,9,13 62:19 63:6,17,20 64:7

engineering [3] 86:20 117:21 145:25

engineers [3] 145:9,13 145:22

engines [1] 96:25 **enhanced** [3] 4:24 5:2 187:18

enhancing [1] 111:4 ensure [2] 219:14 223:11 **ensuring** [2] 32:13

219:21 **entailed** [1] 68:7 entire [3] 181:1 204:25 204:25

entirely [1] 3:20 entities [4] 38:8 59:13 114:13 157:10

entitled [3] 49:25 51:9 222:22

entity [5] 57:15 155:11 157:6,21 197:2

entry [2] 68:20 69:3

environment [11] 56:3 108:2 113:12 155:4 157:15 169:6 172:8 178:15 215:7 221:13 222:11

environmental [1] 63:12

environmentally [1]

70:8 **envisaged** [1] 220:18 **equal** [1] 92:18

equally [1] 177:6 equate[1] 151:21 equates [1] 151:21

equipment [16] 8:5 45:7 62:13 108:17 126:16 154:23 159:19 161:22 163:11 166:16.20 176:19 207:15 208:6.21 209:6

equipped [2] 51:22 78:11

equivalent [1] 222:7 **ERP**[1] 194:18 error [2] 19:18 44:5

especially [1] 63:19 **essence** [2] 24:24 111:2 **essential** [1] 218:23 essentially [4] 57:21 64:14 84:13 135:8

establish [1] 131:23 **estate** [1] 158:9

estates [2] 158:3,8

et [2] 212:14,14

evaluation [2] 159:24 172:14

evening [1] 20:21 event [22] 7:24 11:10,20 12:1.2 14:24 15:5 16:8 39:17 57:10 61:9 63:24 99:18 100:1 103:23 104:13 124:24 125:1 128:10 191:4 192:17 193:5

events [6] 14:9 65:5 99:8 189:5,10 191:11

evervbody [11] 25:19 33:9,10 37:24 52:3 60:25 61:1 67:14 175:9 215:23 224:22

everyone's [1] 40:16 evidence [27] 3:18,20 5:17 61:13 120:7 121:3 124:2 127:16 129:1 130:6 130:14 153:1 159:10 162:1 182:10 185:10,11 201:14.18.20.20 207:13 224:20 225:11,13,23,25

evolution [1] 154:19 evolve [1] 157:5 evolved [1] 157:21

exact [3] 86:6 133:6 172:16

exactly [10] 21:25,25 26:5,10 48:23 52:17 94:6 175:21 191:8 196:3

examination [7] 3:4 29:16 37:8 55:4 108:12 110:2 158:5

examine [3] 21:14 49:3 49:22

examined [2] 1:8 63:21 **example** [14] 8:7 88:5 89:25 112:9 113:6 146:5 146:17 168:24 191:10 202:25 205:14 206:20 210:21.25

examples [1] 112:4 **exceed** [2] 47:15 108:21 **excess** [2] 151:7 201:3 **executive** [6] 116:10.13 116:24 118:1 126:15 127:2

exhaustively [1] 30:25 exhibit [6] 115:13,14,16 117:8 216:19,21

exist [2] 116:19 222:8 existed [2] 128:5 136:5 exists [2] 116:3 153:11 **expect** [2] 18:6 195:12

expectation [1] 195:16 expected [4] 41:24 43:7 195:16 222:14

expecting [2] 41:20 42:4 **expended** [1] 134:20 **expensive** [3] 115:2 134:11,16

experience [14] 44:18 67:19 107:6 130:10 148:6 153:15 154:1.12.13 155:14 156:4,6,7,18

experienced [1] 61:12 **expert** [1] 198:16 **expertise** [2] 52:25 218:25

experts [5] 24:6 26:7,8 27:13 51:19 **explain** [5] 9:5 143:22

190:4 205:6 208:16 **explains** [1] 218:4 explanation [1] 97:4 **exploration** [5] 30:12 49:17 85:19 114:4 224:8

explore [5] 19:9 26:20 83:23 84:4 159:18

exploring [1] 160:13 **explosives** [1] 167:10 express [1] 30:16 **expressed** [1] 223:18

expression [1] 57:11 **extensive** [2] 12:21 39:9 extensively [3] 43:6

extent [4] 35:17 36:14 168:22 222:4

126:17 127:3

exterior [1] 154:22 external [5] 82:19 83:1 83:24 159:3 173:13 **externally** [1] 144:1

extra [3] 187:18,18 212:25

extract [1] 65:3 **extracted** [1] 65:15 **extraction** [1] 210:5 **extremely** [1] 215:4 eyes [1] 160:12

-F-

FAA [6] 19:4 80:6 81:14 121:3 127:18 211:5 fabrication [1] 198:8 **face** [7] 19:11,23 180:12 194:14,14 195:2,2 **faced** [1] 178:18 facilitate [1] 218:8 facilitated [1] 161:3 fact [23] 14:12 25:9 36:12 54:3,10 81:3 94:14 107:20 108:2 109:3,4 114:13 119:19 136:15 142:24 143:2 157:11.14 165:8 166:7 171:6 187:16 195:5

factor [7] 52:13 151:18 177:18 182:19,21,22 183:11

factors [2] 182:24 184:3 **facts** [2] 143:11 156:15 factual [1] 29:14

Fagan [20] 22:18 23:7,8 28:7,8 29:1 42:23,24 100:11 101:20 102:3,21 115:17,21 144:19 147:15 148:1 152:9 196:14 225:15

fair [13] 14:9 36:2 39:18 42:5 69:21 70:14 78:7 111:12 119:14,21 134:18 199:10 218:11

fairly [9] 108:11 115:2 119:15,16 134:22 137:1 167:8 201:4 208:16

fairness [1] 41:4

fall [6] 32:3 46:16,18,22 49:23 66:16

falls [1] 31:23

familiar [2] 61:9 185:5 **families** [23] 35:7,13,14 35:19 36:17 37:4 40:8 40:11,25 41:4,10,17 42:6 42:20 110:5 137:20 193:11,16,25 194:7,8 195:17 196:7

family [3] 158:12,13,18 **far** [7] 13:25 84:18 108:6 152:20 164:19 190:25 195:8

fashion [5] 15:7 72:2 139:2 144:13 200:13

fast [3] 186:5,7 187:15 **fathers** [2] 41:2,22

fault[1] 143:8

features [1] 86:17 **featuring** [1] 72:19

February [4] 1:1 112:21 227:4,10

federal [6] 49:11 127:18 190:11 218:13 219:3 222:6

feels [11 32:9 **feet** [2] 102:9 171:9 **fell** [2] 48:3.4

fellow [3] 13:4,5 15:15

fellows [1] 74:21 **few** [13] 10:2 28:2,20

44:10 48:14 59:4 125:17 168:19 196:12 204:13 213:16 214:3,22

field [1] 155:2 **fields** [1] 151:6

fighting [3] 67:3,3 181:1

figuring [1] 66:21 file [2] 99:4,11

filed [1] 99:17 **fill** [1] 63:4

filled [1] 161:7 **filter** [1] 147:10 **final** [3] 52:14 56:17 214:19 **finalized** [3] 31:5 111:8 223:17 **finally** [1] 215:18 **finding** [1] 46:21 **findings** [5] 15:1 50:13 50:14.18 52:13 **fine** [10] 19:7 23:12 27:18 36:5 48:16 55:6 97:11 111:20 122:19 196:19 **fingers** [1] 46:24 **finished** [4] 1:7 7:22 51:11 196:11 **finishes** [1] 94:14 **fire** [1] 173:14 **firearms** [1] 167:10 **fireproof** [2] 173:6,22 fires [1] 171:13 **first** [51] 3:14 5:1,2,8,9 10:4 28:19 29:8,18 35:9 40:12 41:12,21,24 58:22 59:13 61:3 64:15 65:7 66:1 75:13 78:24 79:18 80:16 81:1 84:12 89:16 110:9,21 115:25 122:11 123:15 124:22 158:10 159:18 161:11,19 165:15 168:17 171:10 186:22 194:3,11,19 199:6,8 204:20 205:2 206:14 208:4 209:19 **fit** [6] 90:14 162:8.15 163:1 166:3 192:20 **fitting** (1) 19:19 **five** [13] 66:11 67:1,17 69:10 70:15 75:5 79:12 102:2,4,5 113:21 116:25 183:5 **five-day** [1] 198:9 **fixed** [2] 107:24 138:19 **flame** [2] 171:4.12 **flare** [1] 212:12 **flash** [1] 171:12 **fleet** [8] 74:8 104:10 204:20,21,22,25 205:12 209:6 Flemish [6] 91:15 94:11 94:18 95:10,12,20 flew [1] 178:11 **flexibility** [2] 86:21 92:13 **flies** [1] 22:25 **flight** [73] 4:17 7:21 9:6 13:21 29:20,21 32:1,2 40:12,14,14 41:18 55:17 56:12,16,22,23,24 57:11 57:14 58:23 59:12 60:7 66:1 72:18 89:25 90:19 96:24 98:7,20 100:15 107:22 117:24 134:5,7 144:6 158:9 159:19 161:7

162:15,23 165:17,17,25

166:2,19 168:5 169:4,24

169:25 170:10,12,16,20

171:11,17 173:14,19

185:14.18 **float** [1] 203:25 **floatation** [1] 4:24 **floating** [3] 66:24 67:4 107:24 **floats** [1] 204:2 **flow** [1] 4:8 **flowing** [1] 219:7 **flown** [5] 86:12 166:4,5 180:4 210:14 **fly** [14] 15:16 17:6 18:19 20:25 25:21 47:5 86:23 157:14,14 173:21,23 178:13 185:3 214:15 flying [18] 6:14 8:5 11:2 56:6 85:16 140:12 151:6 151:10.14.15 178:8 183:4 186:1 187:12,20 197:10 211:3 214:14 focus [1] 142:3 fog [1] 107:14 **foggy** [1] 107:11 **folks** [1] 208:10 follow [6] 19:22 54:25 59:23 101:17,25 215:6 **followed** [2] 147:17 220:6 **following** [5] 153:8 155:22 164:20 172:2 183:6 **follows** [1] 65:6 **forbid** [1] 186:6 **forbidden** [1] 134:8 force [5] 68:1 77:24 160:4 161:12 219:8 **forecast** [1] 56:13 **forecasting** [1] 107:19 **foregoing** [1] 227:3 **foreign** [1] 103:16 forged [1] 111:8 **forget** [3] 133:6 157:10 215:10 **form** [6] 11:20,20 12:6,7 100:1 221:24 **formal** [6] 57:2 137:12 198:24 199:6,8,12 **formalized** [3] 11:21 12:14 198:23 **Formalizing** [1] 12:16 **format** [1] 132:10 forms [1] 12:1 **formulate** [2] 28:18 220:8 **forth** [1] 68:24 **forum** [3] 42:15 47:9,19 **forward** [10] 33:20 34:3 56:23 112:15 149:7 163:11 179:9 189:17 213:4 224:13

forwarded [1] 31:6 176:25 182:12,25 183:2 184:2 185:2 186:15,16 foster [1] 221:12 190:12 194:4 200:25,25 **found** [5] 3:16 4:12 20:21 203:3 208:10 211:14 125:25 204:17 **flights** [4] 94:18 182:9 **four** [13] 29:17 75:8 77:15,22 102:2,4 113:18 172:23 206:10,13 207:24 208:1 225:17 fourth [1] 29:21 **FPSO** [3] 46:5.6 84:18 **fractured** [1] 22:12 **frame** [3] 9:21 74:21 97:21 framework [4] 29:14 29:25 217:12 225:1 **frankly** [2] 20:1 65:19 FRC [1] 186:4 **freedom** [1] 18:5 FREEMAN [4] 1:21 33:2,6,11 freight [2] 168:21 169:1 **frequencies** [1] 207:20 **frequently** [1] 118:23 **friend** [1] 45:12 friends [2] 45:19 47:16 **front** [5] 68:20,24 97:8 166:18,18 fuel [30] 4:21 56:22 63:14 70:21 82:20 83:1 85:12 85:14,25 86:2,8,14,22 88:13,16,16 89:4,5,13 89:17,24 90:7 91:2,3,9 91:10,11,13,21 213:2 **fuelled** [2] 60:22 62:12 fuelling [1] 60:22 **fulfilling** [1] 6:24 **full** 171 59:19 63:18 91:8 144:11 181:7,9 220:21 **fully** [3] 16:3 72:20 79:23 **fulsome** [1] 223:12 **function** [11] 58:1 109:6 126:10 129:4 138:25 141:2 179:13 184:19 190:18 191:14 198:7 fundamentally [2] 20:6 160:7 **funny** [1] 177:16 **future** [3] 138:7 163:12 224:5

-G-

Gander [10] 88:21 90:2 184:5,10,12 186:15,18 206:17 207:1,9 **gas** [1] 151:18 gasp[1] 166:10 gather [3] 120:8,24 121:5 **gear** [1] 166:20 **gearbox** [6] 25:22 102:10

103:13,20 124:16 134:24 **general** [20] 6:15 40:13 56:12 76:2 85:11 118:16 124:24 125:16 127:7

128:9 149:7 162:5 164:10 168:20 169:20,21 178:17 217:25 221:23 223:2

generally [5] 71:19 76:5 87:1 136:1,3

generate [2] 47:21 150:8 **generated** [2] 120:9,15 generative [3] 119:7 136:16 162:20

gentleman [1] 61:12 **gentlemen** [11] 1:3 3:6 12:20 29:5 53:10 102:7 108:10,13 109:11 110:4 157:25

genuine [1] 40:21 germane [1] 30:8 **given** [13] 17:25 39:18 42:19 49:19 51:16 53:18 98:7 103:22 120:7 185:7 185:7 216:20 219:12 **giving** [2] 61:13 162:13

glad [1] 151:3 **glean** [1] 119:18 globally [2] 138:19 165:16

gloves [4] 175:16,20,24 176:2

go-forward [2] 46:24 47:1

go-no-go[1] 183:10 **goal** [3] 215:22,24 221:11 goes [14] 25:10 45:21 58:16 62:13 67:20 92:14 127:7 132:14,21 136:13 140:22 164:19 171:14 193:5

goggles [3] 10:19,25 11:5 **gone** [10] 30:22,24 42:21 67:18 76:11.12 82:3.8 113:13 185:11

good [28] 1:3 3:6,8,10,17 44:10 108:5 110:4 151:22 160:21 161:8 163:8 175:12 177:11.22 181:18 181:25 182:2,8 184:11 186:1 188:8 197:21 206:20 207:10 208:20 209:4 212:3

goodness [1] 182:5 **goods** [4] 164:3 168:25 169:2,3

Gorilla [1] 103:10 **governance** [2] 220:24 221:3

government [19] 2:19 34:12,22 49:12 156:2,16 190:11 216:13,17 217:3 217:7 218:15,15 220:1 220:16 221:21 223:9,21 224:1

governments [8] 49:10 49:11 218:14,24 219:10 221:1 222:15 224:24 gradients [1] 170:8

grandfathered [1] 211:5

gravamen [2] 44:8 45:21 graver [1] 62:4 **great** [9] 42:9 46:13 48:25 86:19 142:5 151:23 154:16 172:2 202:21

greater [5] 18:5 82:15 145:1 213:1 225:11 **greatest** [2] 44:3 85:12

gross [1] 87:10 **ground** [7] 58:21 59:23 106:8 142:9 186:14 205:12 206:23

grounds [1] 204:24 group [13] 8:23 37:25 38:23 41:14,16,18 95:2 162:9,16 165:13 178:19 194:23 216:8

groups [1] 167:18 **guarantee** [1] 37:11 **guess** [4] 39:23 117:14 171:16 197:24

guidance [2] 13:21 147:22

guideline [1] 70:3 **Gulf** [4] 79:15 107:25 154:25 155:7

guv [1] 68:14 **guys** [2] 162:14 163:6

-H-

half [10] 28:22 129:25 130:12,20,21 133:4 146:8 186:17 195:25 214:25

Halifax [6] 103:3,10,14 104:2,15 160:5

Hammerfest [1] 151:12 hand [3] 93:10 117:22 119:6

handle [3] 59:21 143:13 184:21

handled [6] 35:11 94:21 99:3,9 205:14 206:21

hanging [1] 80:13 Hank [5] 3:3 55:3 110:1 158:4 194:16

Hansen [3] 2:13 34:7 173:16

happening [1] 126:16 happy [1] 158:20 hard [1] 90:17

harder [1] 169:16 **hardware** [1] 20:22

harm [1] 69:9

Harris [2] 2:24 35:6 Harrison [1] 219:8

harsh [2] 157:14,18 hat [1] 57:14

Hawk [1] 83:16

hazards [1] 172:9 **he'd** [1] 91:13

head 6 133:14 177:17 177:20,23 179:23 180:12 **heading** [1] 73:9 headset [3] 179:5,11 180:12 **headsets** [1] 177:2 health [26] 97:3,23 113:12 218:1,3,5 219:11 219:15,20,22 220:4,11 220:14,25 221:11,15,17 221:23 222:6,13,21,23 222:25 223:3,24 224:25 **hear** [7] 27:1 36:12 39:23 97:19 119:25 177:13 179:12 heard [35] 5:17 7:19 8:11 9:22 13:3 25:16 35:23 68:7 98:16 102:14 118:19 122:11 123:16 124:24 125:3 137:13 163:23 167:8,16 178:14 188:24 189:12 193:12,19 195:6 196:7,23,25 197:10 207:12,13 209:19 211:22 215:23 227:4 **hearing** [6] 38:22 108:12 180:3,5 185:10 227:4 **hearings** [2] 46:13,14 heave [3] 182:15 183:11 186:9 **heaven** [1] 186:6 **heavier** [1] 179:22 **heavily** [2] 41:6 197:2 heavy [3] 167:19 179:22 212:11 **HEEDS** [8] 7:21 8:7 159:4 160:11,15,18 163:21 164:20 **height** [1] 74:13 **held** [1] 32:7 helicopter [42] 10:5 15:21 22:25 24:11 29:24 32:13 40:15 44:24,24 50:10 55:18 63:5 65:21 77:4 78:9 96:19,24 103:8 111:1 120:15 125:13 126:10 127:25 134:12 140:12 169:7 170:5 177:21 184:5 186:14,18 186:23 187:16 189:6.23 194:1 205:3 206:6,7,14 208:21 209:15 **helicopters** [13] 43:3,17 78:5 103:2 108:15 114:9 140:20 197:9 198:14 207:15,19,21 208:4 **helideck** [1] 63:16 **helipad** [1] 107:1 Helly [3] 2:13 34:7 173:16 **helmet** [11] 177:24 178:12.23 179:11.19 180:9.9.11.16.16.22 **helmets** [15] 8:7 176:15 176:23 177:1,6,10,15 178:1,6,7,10,11 181:2,8 181:19 help [2] 30:15 61:19 helped [1] 205:16

helpful [7] 28:10 29:11 69:14 175:8 213:14 217:11 224:22 hereby [1] 227:2 **hesitate** [1] 26:25 **Hibernia** [9] 46:6 88:5 88:7 96:24,24 97:4 98:21 99:19 100:17 HICKMAN [1] 2:10 **hiding** [1] 141:3 **high** [4] 89:21 137:1 187:6 212:10 **higher** [5] 185:25 201:11 203:12,15 212:20 **highest** [1] 201:12 **highly** [4] 149:11,11 156:5 162:8 **himself** [1] 69:5 **history** [4] 138:14 151:15 160:9 217:17 **HMDC** [6] 2:1 33:1,18 33:21 34:15 35:3 **hoist** [6] 7:3 65:4 66:12 67:9 68:20 69:2 **hoisting** [1] 186:24 Holding [1] 91:11 **holds** [1] 15:15 holes [2] 185:20 187:8 **homage** [1] 157:20 home [2] 41:2 207:17 **homing** [6] 207:16,22 208:12 209:1,3,6 honest [4] 86:7 155:11 190:23 191:21 Hong [1] 77:24 **honour** [1] 215:11 **hood** [1] 176:3 hooking [2] 175:18 176:2 hope [7] 18:6 30:14 54:6 81:8 214:24,24 224:10 hoped [2] 81:6,10 horse [1] 146:14 **HOTF** [1] 11:1 hour [17] 11:10 12:5.11 12:16 28:13.23 65:18 66:1 69:12,24 109:3 152:16 153:10 193:18 195:25,25 196:2 hours [23] 8:12,15,16,17 8:22.24 9:6.10.13 22:22 23:1 30:6 47:7 97:21 109:5 141:8 186:17 193:18 200:25,25 201:1 201:1,2 **house** [1] 199:3 **hover** [31] 71:7 72:3,6,8 72:14,16,21 73:21,23 74:6.10 75:24 76:2.3.5 76:10,15,19 77:15,22,23 78:12 79:23 80:7,17 81:2

HSI [3] 198:1,6 199:2 **HUEBA** [10] 7:21 19:16 159:8,23 160:3,16 161:11 161:19 162:3 163:21 huge [2] 19:13 190:24 hull [2] 210:8,21 **Humberside** [1] 151:11 **hundreds** [1] 138:12 hung [1] 83:17 **HURLEY** [2] 2:16 34:9 **husbands** [2] 41:1,22 Husky [3] 2:9 33:21 88:9 **hypothermia** [4] 67:12 70:9 170:13.18

-I-

ice [3] 157:16 187:22,24 icing [1] 210:23 idea [2] 181:25 186:1 ideally [1] 118:10 **identical** [1] 92:4 identification [1] 36:10 **identified** [4] 30:8 144:25 161:21 203:6 **identify** [2] 45:5 194:22 **III** [1] 103:10 **illumination** [1] 103:12 **imagine** [2] 140:4 153:21 **immediate** [5] 22:13 27:10 55:24 206:21,23 immediately [6] 59:3 62:3 68:1 81:7 100:20 104:2 **immersion** [2] 164:2 170:6 immobilization [1] 68:2 **impact** [3] 5:19 90:7 219:9 **impede** [2] 177:19 187:14 **implement** [2] 85:24 219:6 implementation [2] 7:23 172:23 implemented [6] 3:21 7:20 50:16 79:10 86:8 165:12 implication [2] 44:16 44:16

65:6,11 73:20 87:20 123:21 133:15 135:25 140:14 149:20 216:14 **indicates** [1] 125:5 **indicating** [1] 133:12 **indication** [1] 13:12 **indicator** [1] 103:13 individual [13] 8:23 60:6 65:3 66:15,20 67:10 68:9 68:23 69:5,9 106:3 117:16 203:7 **individuals** [7] 46:11 70:6 94:2 105:18 160:23 162:9 219:17 importance [2] 44:8 industry [22] 47:22 124:25 125:3 126:9 127:5 important [23] 18:12,20 136:11,25 137:10 146:18 19:5,14,17,21 27:2 28:12 146:22,24,25 149:12 157:13,16 164:9,10 38:23 39:20 40:20 118:13 171:18 185:5 205:13 215:25 218:12 184:10 215:4 224:3,13 inevitably [2] 55:14,14 **inform** [1] 217:16 **impressed** [1] 96:14 **impression** [3] 65:21 informal [2] 185:4 199:4 **information** [61] 14:20 15:19,24,25 16:15 23:8 **improve** [3] 46:17 91:11

30:9 32:10,12 37:14

147:21 151:4 180:17

imposed [1] 221:19

69:19 212:3

215:12 23:9 24:1 30:2 36:22 41:5,11,13,20 42:13 improvement [2] 5:13 45:18 51:24 56:15,23 153:21 58:19 61:20 97:16 100:2 improvements [2] 45:1 100:5,6,16 103:22 104:11 144:20 104:12,18,23 126:8 131:9 inappropriate [1] 39:14 131:17 178:3 188:15 inboard [4] 92:9 93:22 190:7 192:21 193:15.16 94:17 96:5 193:20 194:5,10 195:2,3 195:8,17,22 196:3 209:3 inbound [1] 169:4 213:7,10 214:25 217:8 Inc [2] 227:12,14 217:11 221:6 223:12,20 incident [41] 11:11 21:15 224:10,17,20 36:23 43:20 60:19 96:17 ingress [1] 170:8 96:20,22 99:4,5,9,12,14 **initial** [4] 59:8 111:3 100:10,22 101:14,22 145:14 146:12 102:24 103:15 104:6,13 110:7,16 111:12 124:12 initializing [1] 161:6 124:15 125:16 135:7 **initiated** [2] 64:14 111:9 136:21,24 142:13,19,21

142:24 143:23 147:3

212:23

224:19

212:2

156:2,2,16,17

independent [5] 48:21

indicate [3] 35:1 112:6

188:22 191:3,6,23 193:11 injured [1] 68:22 incidents [6] 105:17 **injuries** [2] 66:19,22 189:4,6,7,23 192:20 **injury** [2] 67:25 70:10 include [2] 29:16 223:1 input [2] 53:7 54:8 included [1] 29:22 **inquire** [1] 44:23 including [5] 4:8 63:14 **inquiries** [2] 49:20 54:22 131:19 166:20 218:21 **incoherent** [1] 66:25 inquiry [41] 1:6 14:8 17:22 18:13 19:12 24:11 **inconsistent** [1] 203:11 32:7,11 34:2 38:6 39:1 **increase** [3] 8:12 164:12 42:25 44:22,22 46:21 49:19,20,25 50:1,3,4 **increased** [1] 8:16 52:21,23 53:1,4 54:3 **increasingly** [1] 185:19 106:23 150:25 155:24 192:5 197:11 216:15 **indeed** [3] 53:15 54:6 217:5,7,9,16 223:9,12

> insert [2] 202:3,11 **inside** [3] 68:3,8 188:3 **insisting** [1] 166:13 **inspection** [2] 103:15 168:20 installation [6] 55:19

94:18 96:7 167:15 168:11 169:13 installations [7] 57:3

86:13 89:6 168:3,4 182:16 186:10

instance [4] 50:22 104:22 112:13,18

instead [1] 225:21 **Institute** [1] 160:24 **instrument** [1] 73:15 instruments [1] 56:2 integral [2] 176:8 223:25 integrity [2] 143:20,24 intend [2] 35:19 92:8 intent [4] 139:4,5 166:15

inter-departmental [1]

interest [9] 38:16 40:21 42:9 46:13 47:10 115:25 119:4 153:17 154:8

initiative [2] 164:13 175:12 224:12,14,21 indicated [12] 35:4 37:21 **instances** [2] 60:2 98:15 215:5 217:14 interested [8] 24:4 40:24

Index Page 8

186:22,25 211:1,7,9

Howard [1] 188:25

HS&E [1] 113:11

HSE [1] 105:14

February 4, 2010 41:23 48:7 71:7 116:7 119:16 191:16 interesting [1] 30:21 interface [1] 17:21 interim [1] 222:18 **interior** [1] 82:16 internal [3] 101:17,24 144:3 internally [2] 144:1 197:4 international [1] 8:19 internationally [1] 49:1 internet [1] 76:24 interviews [1] 47:7 **intimately** [1] 71:14 **introduce** [1] 216:18 introducing [2] 162:4 164:1 **introduction** [2] 160:14 163:9 investigate [3] 38:10 48:22 51:7 investigated [4] 31:17 31:24 43:4 53:11 investigating [1] 53:20 investigation [3] 29:24 50:10 128:9 invoked [1] 149:5 involve [3] 36:15 98:24 140:17 involved [14] 13:19 41:6 41:8 54:11,13 71:14 114:3 135:4 159:23 162:22 168:15 217:23 220:13 224:8 **involves** [1] 103:2 involving [2] 53:10 124:13 **Ireland** [1] 77:5 issuance [2] 171:13 173:15 issue [51] 18:15 19:8,16 19:20,21 20:17 22:2 25:18 28:12 29:17 30:9 31:16,19,22 33:14,23 34:1,25 35:20 36:1,8 43:6,8 57:4 58:23 84:8 96:15 105:15 127:6 128:15 139:3 141:3,20

ISO [3] 112:13,18 198:12 141:22.24 142:2.12.13 142:22 143:20 150:14 159:2 161:19 163:20,22 173:22 180:16 181:8 183:7,8 214:13 issued [6] 121:12.19 173:20 175:16 176:2 222:3 **issues** [11] 30:7.12 34:16 36:10,14 43:15 152:25 154:6 160:21 165:11 188:14 it'll [2] 110:25 138:1 item [2] 10:19 99:23 items [4] 29:18 167:9,12

191:8 itself [8] 14:1 19:10 106:6 135:9 142:21 171:6 175:12 212:16

-J-

J [1] 55:4 **iacket** [1] 176:8 **Jamie** [2] 110:2,5 **Janes** [1] 20:22 **January** [22] 102:8,25 112:21,24 121:24 122:1 122:6 123:3,8 125:10 127:12 128:22 129:15 130:5,5,6,18 132:10 135:20 136:10 139:23 140:3

Jean [1] 96:7 **job** [5] 27:1 163:8 166:21 178:8 179:12 **jobs** [1] 175:7

John's [19] 10:6 57:16 60:17,18 85:3,14 88:20 96:19 97:1 107:7 108:18 203:25 204:20,23 205:1 206:8 207:3 227:5,9

joint [1] 223:7 **joist** [1] 7:1 iudge [1] 46:25 judicial [1] 54:22 **Judy** [1] 227:13 **July** [7] 96:18 97:5 98:10 98:12,18 125:5,10 jump [1] 157:7 jungles [1] 212:14

jurisdiction [10] 38:4 44:6,7,9,21,22 46:2,20 49:23 121:17

jurisdiction's [1] 221:9 jurisdictional [1] 33:16 jurisdictions [2] 152:13 152:14

-K-

keep [7] 24:6 119:2 127:6 167:12 177:7 201:11 211:4 **keeping** [2] 95:14 167:9 **Ken** [1] 116:13 **Kimberly** [1] 185:12 **kind** [6] 26:8 47:19 66:21 69:19 185:24 187:6 kinds [2] 153:22 177:22 **kit** [3] 132:18 166:19 188:10 kits[1] 212:11 knew [5] 41:22 43:18 52:18 135:25 206:22 **knots** [1] 73:18 **knowing** [3] 24:4 135:18 136:21 **knowledge** [16] 4:15

40:14,17 41:9,16 58:23

123:5,11 124:11 125:21 127:13 128:10 130:8 135:6 142:20 164:15 known [2] 68:10 76:7 Kong [1] 77:24

-L-

labour [1] 134:19 **Labrador** [22] 2:20 26:23 34:13,23 49:13,22 50:25 113:23 144:21 217:13 218:7,10,16,20 219:4 220:1,7 221:16 223:10,21 224:2 227:6 **Labrador's** [2] 217:4

221:22 ladies [2] 1:3 29:5 **Laengle** [8] 2:21 34:14 34:21 216:17,24 217:1,2

225:3

lag[1] 13:3 **laid** (1) 43:10 land [12] 55:20 57:8 60:12 63:6 98:21 108:4 108:7 187:17 200:11 204:1,9 209:23

landed [4] 57:3 60:18 100:20 103:14

landing [9] 63:16,17,21 63:24 90:14 96:18 97:2 107:2,10

landings [1] 183:6 **Lanouette** [1] 158:10 **Lanouette's** [1] 158:11 large [4] 44:12 78:10 190:15 212:15

largely [1] 157:13

larger [1] 185:19 largest [1] 212:8 last [12] 1:9,11 8:19 12:5 20:21 79:10 110:24 118:20,22 198:20 212:18 214:24

late [2] 130:18 132:9 **latest** [1] 85:10 **latex** (1) 171:8 launch [4] 75:1 185:1 186:4.7 **launched** [1] 186:16

Laura [1] 216:17 laurels [1] 119:11 Laurentian [1] 94:13 lawyer [1] 3:18 layer [15] 170:22,23

171:4,5,5 173:6,6,11,13 173:13,15,16,22,22,23 layers [6] 170:25 173:6

173:20 174:1,5 175:1 lead [4] 155:10 198:2

215:5 225:24 **leader** [3] 149:22 155:15 155:16

leaders [4] 148:10,15,16 148:21

leading [3] 120:6 137:16 157:13 **leads** [1] 152:3

learn[1] 44:25

learned [12] 4:6,15 13:16 14:3,17,23 16:6 22:23 44:18 45:18 52:12 110:24

learning [1] 18:11 learnings [2] 44:14 45:15

lease [3] 114:8,12,13 **least** [8] 22:16 43:5 75:13 79:22 146:7 190:2 201:15 201:20

leave [7] 33:12,15 59:23 69:5 166:24 167:2 193:24 **leaving** [2] 92:19 168:3

led [2] 157:16,19 **left** [7] 4:21 65:20 66:3 92:12,17 94:1 211:7

leg [1] 175:22 **legal** [1] 221:5 **legally** [1] 107:21 **legislation** [5] 38:20

49:14 218:4 220:3 221:2 legislative [8] 26:21 50:20,22 52:6,15 219:22

220:10 222:7 Legislature [1] 50:24 legislatures [2] 26:22

222:17 **legitimate** [3] 17:11 21:6 131:2

less [2] 96:6 213:1 level [11] 73:13 137:1 141:15 155:2 160:19 180:20,23 185:25 191:17 197:18 212:25

levels [5] 164:12 178:15 180:19 188:6 191:1 **liability** [4] 35:20 36:1

39:17 46:25 liaise [1] 21:9

liaison [3] 105:8 184:11 206:25 licence [1] 15:16

license [1] 183:4 **life** [7] 8:7 65:25 70:2.4 154:22 176:8 213:3

lift [3] 67:13 70:9 212:11 **lifting** [1] 213:2

light [6] 125:1,1 160:16 161:20 166:17 176:5

lighting [1] 183:9 **lights** [1] 176:8 **likely** [3] 91:24 107:14 195:6

limit [3] 70:12 71:2 185:23

limitation [4] 31:20 32:4 51:5 200:15 **limitations** [3] 29:14 42:3 183:13

limited [2] 186:7 198:16 **limits** [2] 183:12 187:5 line [22] 16:11 27:19 28:1 28:16 35:25 36:4,5,25 37:17 39:12 40:9 45:11 90:17 91:5 117:5 123:1 139:10 141:16 147:13 150:17 195:16 202:2

lines [4] 37:8 117:25 139:8 195:15

link [2] 142:22 143:8 **list** [8] 1:4 12:21 24:16 25:16 42:22 44:11 141:8

194:21 listed [11 29:18 **listen** [1] 179:7 **listening** [1] 187:2 **literally** [1] 210:2 litres [1] 82:20

litter [1] 67:9 **live** [11 39:9 **lived** [1] 194:15

load [4] 63:14 89:9,14 95:4

Local [1] 225:24 **location** [3] 87:3 91:7 93:13

locations [2] 85:17 93:14 **locator** [1] 176:12 **logical** [1] 148:4 **logistics** [6] 105:4,10,18

105:22,23,25 **loitering** [1] 91:10 **longer** [4] 10:11 77:21 106:24 220:17

longevity [1] 221:13 longstanding [1] 113:17 look [26] 33:9 46:7 56:18 66:13 67:7 70:8 128:14 128:15 144:6 146:22 147:22 148:4 150:25 154:18 161:24 162:22 168:9 169:9 178:19 183:24,25 184:2 188:7

looked 171 43:16 84:12 135:17 141:6 163:16 171:19 189:5

192:6 211:6 224:13

looking [27] 17:3,3 26:9 27:14 37:9 39:16 45:20 64:21 71:8 88:1 97:24 98:14 153:16 154:22 160:15 162:21 164:9 182:15,24 184:4,7 185:15 186:3,10 187:7 188:14 206:16

looks [1] 210:8 **Lorraine** [1] 155:24 lose [7] 38:7 53:1 86:18 89:23,25 90:1 124:16 loss [2] 64:6 125:15

lost [2] 22:12 215:12 **lots** [4] 170:7,7 187:7 197:10

love [1] 210:14 loved [2] 158:19,19 low [3] 13:11,12 157:18

-M-

machine [1] 207:8 Maher [1] 66:4 MAHONEY [1] 2:6 mails [1] 46:9 main [6] 103:12,19 124:16 134:24 182:22 200:2 maintain [2] 67:22

166:25

maintained [2] 19:10 143:17

maintaining [1] 139:1 maintenance [30] 59:11 103:15 117:23 132:2,8 132:13,19,20 137:3,4 139:1,5,6 140:23,25 141:4,5,16 143:1 144:7 144:18 145:2,8,22 146:9 146:11 147:5,9,10 198:13

major [2] 162:2 219:6 makes [2] 58:8 214:18 man [2] 66:3 70:4 manage [3] 45:2 172:8

208:11 managed [1] 155:5

management [14] 9:20 19:25 20:15 110:10,12 112:20 119:5 164:6,24 178:5 194:19 197:16 218:11,19

manager [11] 104:3,20 117:15,17,20,21 146:9 178:18 179:7 198:3,13

managing [1] 188:4 mandate [13] 29:12,16 30:10 45:4 49:9,10 50:25 51:2 154:18 170:15,16 170:18 221:1

mandated [8] 48:22 110:11,12 117:5 118:14 167:11,13 184:15

mandatory [4] 191:3,4 191:14,22

manner [3] 13:22 28:15 62:1

manoeuvre [1] 63:19 **manual** [4] 43:18 106:5 194:19 195:13

manufacture [1] 198:17 manufactured [3] 120:9 124:6 131:5

manufacturer [10] 13:18 120:10 121:13,20 123:17 139:2,7 142:23 173:1,3

manufacturers [3] 138:22 171:19 197:23

manufactures [2] 160:20 173:5

manufacturing [1]

March [58] 3:22 4:1 5:18 6:10,21 11:5,16 13:16 14:4,10,10,23 15:25 17:1 17:5 18:18 35:16 36:23 40:24 43:19 44:19 45:24 58:16,19 64:14,19 65:5 109:5 110:6,16 111:5,11 116:11 121:5,13,20 122:25 123:7 125:24 127:25 128:1 129:2,9,12 130:12,19 131:20 133:17 133:20,22 140:3 142:7 189:2 193:12 199:11 205:14 206:20 215:8

marine [2] 48:19 160:24 market [1] 75:9

marketed [3] 71:10 72:12,14

marketing [1] 71:21 marketplace [1] 85:9 Martin [143] 35:7,8 38:24 39:6 40:1,19 45:12 46:4 47:16 109:13,23,24 110:2,3,5 111:10,15,19 113:5,15,22 114:1,7,15 114:21 115:1,5,19,23 116:6,16 117:1,7,12 118:2,7,15 119:1,24 120:4,13,18,23 121:2,9 121:25 122:5,9,16,24 123:9,14,20 124:1,5,10 124:17,21 125:2,9,19 126:1,5,20,24 127:10,22

124:17,21 125:2,9,19 126:1,5,20,24 127:10,22 128:4,11,19,24 129:8,14 129:18,23 130:4,24 131:6 131:16 132:5,23 133:2 133:10,21 134:2,6,17 135:5,13,23 136:4,9,20 137:6,14,19,24 138:4 139:9,15,20 140:2,10 141:11,19,23 142:11 143:5,19 144:15,24 145:6 145:16,20 146:2,19 147:1 147:12,25 148:9,14,20

148:24 149:4,15,19 150:2

153:5,14,24 154:4 155:12

155:20 156:11,25 157:23

150:12,23 152:2,8,19,23

match [2] 189:11 211:16 matched [1] 189:9 matching [1] 190:3 materials [3] 18:17 20:19 135:3

Matt [3] 158:8,13,19 matter [18] 3:24 17:12 25:10 35:11 38:11,17 54:11,17 90:18 99:6 108:15,23 119:19 136:15 143:11 216:8 220:14 225:6

matters [4] 29:22 31:23 49:16 219:1

mature [2] 157:4,21 maximize [1] 86:21 maximizing [1] 82:16 **maximum** [1] 87:10 **Maxx** [1] 198:16

may [44] 11:2 22:14,14 27:7 28:11 30:2,11,16 31:2,3 36:18,19 38:19 39:19 43:16 47:4 52:4 53:2,15,15,16,17 61:19 89:19,20,22 91:6 93:2,2 93:3,3 94:13 133:6,6,7,9 133:11,23 199:20,21 203:11 213:7,14,14

mayday [1] 59:5
mean [43] 8:22 9:3,13
14:8,22 15:17 16:3 19:12
20:21,25 36:9 59:10,16
61:5 64:22 65:14,22
74:17 76:2 80:5 89:13
90:1 93:7 107:11 114:24
116:19 122:14 128:23
165:3 170:22 177:4,16
178:8,12 184:19 187:13
187:17 194:2,25 197:15
203:11 208:3 209:20

meaningful [1] 151:23 means [5] 6:9 7:9 59:18 219:14 227:7

meant [1] 151:5 measure [1] 187:5 mechanical [2] 61:25 62:1

mechanics [2] 74:5,9 mechanism [5] 138:18 190:10 192:16 208:13,17

media [2] 17:3 39:9 medical [1] 162:10 meet [5] 47:13 96:11 170:2 194:13 221:4

meeting [1] 152:3

meetings [1] 199:1 member [6] 158:20 160:4 166:2 183:15 187:21 194:19

members [8] 37:4 46:12 97:23 123:10 125:20 180:22 194:15 215:15

memorandum [1] 219:25

Memorial [2] 2:14 34:7 **memory** [3] 116:17,18 129:10

men [2] 40:9 158:14 mentioned [10] 4:4,10 11:9 70:2 105:5 147:2 200:16 203:24 209:13,14

merit [1] 186:2 merrier [1] 108:5 message [2] 44:17 62:18 met [3] 172:4,5 216:12 metal [3] 103:16 167:21 168:22

metallurgists [1] 26:8 methods [1] 11:19 Mexico [4] 79:15 107:25 154:25 155:7

MGB [3] 103:17,17,19

mic [1] 34:19 Michael [2] 155:24 156:15

middle [2] 27:25 119:8 might [22] 3:18 27:3 29:15 45:8 83:15,20 84:4 91:6 163:23 175:8 181:18 185:21 186:1,1,2,20 187:5 192:24 194:18 203:21 208:25 224:21

miles [3] 84:20,22 85:2 military [14] 6:7 20:22 83:12,13,19 84:5 162:7 165:21,23,25 166:2,5 176:22 210:5

million [2] 114:25,25 mind [15] 18:2,14 21:11 28:19 40:16 45:24 88:16 95:14 99:20 176:23 195:7 195:21 209:13 214:9 216:5

minds [1] 25:18 mine [1] 21:13 minimum [3] 73:15 96:25 200:24

minor [3] 74:10 134:18 134:25

minute [8] 18:19 28:10 84:22 90:15,17,21 150:18 153:10

minutes [21] 10:6 28:3 28:20,22 44:10 59:4 65:2 65:12 66:11 67:1,2,18 68:4,16 69:7,11 70:15 85:3 152:15 186:19 196:12

mirror [1] 31:19 misconception [1] 25:20

misconceptions [1]

misquote [1] 149:8 misreading [1] 130:13 miss [1] 200:7 misses [2] 189:4,23 missions [1] 6:15 mistake [1] 28:24 mitigate [1] 188:9

mix [1] 176:24 mixture [1] 176:25 mobilize [1] 206:24 mode [1] 64:9

model [9] 64:1 78:9 140:16 187:7,19 188:2 203:12 220:24 221:3 **mom** [1] 177:10

moment [8] 22:20 38:4 62:18 67:8 94:11 131:12 131:22 209:13

moments [1] 48:14 Monday [4] 161:6,9 225:14,22

money [1] 86:20 **monitor** [1] 106:2

monitoring [1] 55:25 month [7] 8:24 36:13 112:22,22 130:21 133:4 159:15

monthly [1] 9:9 months [11] 8:20 23:14 23:15 110:24 127:15 129:25 130:12,20 183:6 211:22 216:13

Montreal [1] 22:23 morning [11] 1:3,25 3:6 3:8,10,12 25:16 26:14 35:22 109:17 153:7

Moss [1] 227:13 **most** [8] 58:20 85:16 91:24 102:13 105:21 148:4 149:10.11

motion [1] 182:16 MOU [1] 220:6 mounting [1] 102:9 move [9] 42:14 56:19 93:9,11 98:23 144:16 169:23 176:14 188:21

moved [6] 4:20,25 5:24 113:4 203:12 213:3

moves [3] 5:4 33:9 224:14

moving [8] 93:18 98:25 112:15 163:11 201:11 208:25 212:13 216:6

Ms [138] 1:15 2:2,10,20 2:21 22:18 23:7,8 27:15 27:17,24 28:7,8 29:1 31:12,13 32:21 33:18 34:13.14.21 40:4.6 42:18 42:22,24 43:9 100:11 101:20 102:3,21 109:15 115:17,21 144:19 147:15 148:1 152:9 156:15 158:2 158:5,6 159:1,7,16 161:10,17 163:14 164:16 165:2,7,24 166:23 167:5 168:1 169:11,22 170:19 171:1 172:12,17,24 173:4 173:10,18 174:3,10,16 174:23 175:4,14,23 176:4 176:9,13,18 177:8,14 179:18 180:7,14 181:6 181:13,17 182:1,7,20 183:23 184:14 185:8 188:12,19 189:21 190:20 191:24 192:4,23 193:8 194:24 195:11,24 196:5 196:10.14.18.22 198:19 199:5,9,15 200:17,21 201:5,13 202:6,10,16 203:13,19 204:6,10,16 205:23 206:4,11 207:4 207:11 208:2,19 209:7 209:12,14 216:17,24 217:1,2 225:3,15

multi-engine [1] 201:2 multi-million [1] 26:7 must [10] 13:4 17:21 26:25 30:1 46:10 52:22 52:22 69:18 141:6 200:10

-N-

name [1] 20:16 namely [2] 24:7 52:1 narrow [2] 45:11 183:18 **Natural** [6] 220:2 223:8 223:8,13,15,17 **nature** [8] 13:24 19:14 92:1 146:6 162:11 178:7 222:9.11 **nautical** [3] 84:20,22 85:2 Navies [1] 210:4 **navigation** [1] 211:17 **near** [3] 155:1 189:4,23 necessarily [7] 41:21 126:19 157:8 160:25 180:21 186:11 189:9 necessary [5] 38:14 45:1 48:5 57:17 58:9 **neck** [3] 66:22 171:8 179:24 need [21] 8:8 12:6 25:11 51:24 57:4 67:11 86:22 88:12,22 89:13,19,20,22 89:24 90:12 91:2,13 111:23 186:24 192:22 225:17 needed [5] 4:18 74:10 86:21 160:8 225:12 needs [2] 38:1 63:21 **negative** [1] 179:15 never [6] 12:13 58:15 72:14 88:16 107:11 138:1 new [14] 3:25 10:20 12:11 23:11 75:24 76:2 135:3 144:16 147:13 212:19,24 213:8 220:24 221:2 Newfoundland [30] 2:20 26:23 34:13,23 49:12,21 50:24 103:23 107:19 108:18 113:23 142:16 144:21 161:4 216:14 217:4,12 218:6 218:10,16,20 219:4 220:1 220:7 221:16,21 223:10 223:21 224:2 227:6 next [17] 28:13 92:20 94:3 111:20 113:16 134:5 134:7 167:6 182:8 188:20 193:9 198:5,9 224:15 225:13,17 226:1 **nice** [1] 187:24 night [16] 118:22 182:9 182:12,25 184:2 185:7 185:14,17,18 186:1,24 186:24 187:12 200:9 214:13,15 **nighttime** [11] 183:2,3 183:12,14,16,17,22 187:21 200:12,13 201:2 **nine** [2] 161:25 162:3 **NL** [1] 227:9 **NLOPB** [3] 50:14 189:8 nobody [2] 1:24 94:10 **nod** [1] 174:5

noise [1] 142:24

Nomex [1] 173:14 **nominal** [1] 155:3 non [2] 112:4,25 non-conformance [1] 112:16 non-conformity [4] 112:1,8,10 113:6 none [1] 47:25 **Norie** [1] 116:13 norm [1] 8:16 **normal** [7] 32:24 114:16 129:4 138:17 141:2,15 184:19 **normally** [1] 114:8 North [8] 148:5 151:5

156:10 157:20 172:3 211:1,21 212:5 Norway [5] 148:5 151:1

151:9 154:1 156:19 **Norwegian** [6] 155:14

155:25 156:4,6,14,23 **notation** [1] 103:8 note [2] 34:15 98:18 **noted** [3] 119:4 131:25 221:17

nothing [4] 21:23 24:21 113:13 168:7

notice [2] 64:15 130:17 **noticed** [2] 46:11 75:1 notification [6] 12:4 96:15 99:13 100:13 193:10,23

notified [4] 12:3 57:13 104:1,2

notify [3] 59:11 102:11 194:7

notwithstanding [2] 36:3 135:15

Nova [13] 46:5 49:13 60:8,10,13 79:6,9 84:18 88:8 105:7 219:4 220:7 220:20

November [1] 97:22 **now** [95] 1:3,9 7:3 10:10 12:5,9 13:11 16:21,25 18:21 22:14 25:17 26:1 27:2 29:5 30:24 31:12 31:21 32:24 33:18 34:19 35:12 39:8,19 40:4 44:21 50:21 51:14 52:16 58:14 61:15 64:21 67:14 68:11 68:14,19 70:1 71:7 75:19 76:18 77:11 78:16 80:5 82:1 84:14 89:22 91:15 92:2 95:17 96:15 101:4 105:14 109:3 110:23 113:1 117:15 123:21 125:20 126:6 128:8 129:9 132:24 139:7 144:17 146:8 151:19 152:3 153:6 155:13 158:2 161:14 166:24 169:23 176:14 179:10 185:19 186:17 189:22 193:22 199:12

203:24,24 204:18 205:3

211:21 213:11,20 216:4

205:3,20,21 210:24

216:6 220:8 225:22 nowhere [1] 155:1 **number** [31] 3:14 29:19 29:20 42:2 44:12 55:23 56:4 63:10 70:12 71:21 74:21 75:4,5 77:11 80:18 81:10 88:8,10 89:18 100:15 108:15 112:17 115:16 154:21 158:22 160:11 163:22 216:13,20 219:6 220:12

numbers [4] 24:16 78:10 151:20 186:12 **nuts** [1] 197:22

-0-

O'Brien [97] 40:5,6 42:18 43:9 109:15 158:2 158:5,6 159:1,7,16 161:10,17 163:14 164:16 165:2,7,24 166:23 167:5 168:1 169:11,22 170:19 171:1 172:12.17.24 173:4 173:10,18 174:3,10,16 174:23 175:4,14,23 176:4 176:9,13,18 177:8,14 179:18 180:7,14 181:6 181:13.17 182:1.7.20 183:23 184:14 185:8 188:12,19 189:21 190:20 191:24 192:4,23 193:8 194:24 195:11,24 196:5 196:10,18,22 198:19 199:5,9,15 200:17,21 201:5,13 202:6,10,16 203:13,19 204:6,10,16 205:23 206:4,11 207:4 207:11 208:2,19 209:7 209:12,14

o'clock [1] 109:18 **object** [2] 39:12 103:16 **objection** [1] 33:24 **obligated** [2] 93:11 192:16

obligation [1] 143:14 **obligations** [2] 168:10 194:22

observations [1] 118:17 **observe** [2] 37:5 119:9 **observed** [1] 118:19 **obvious** [1] 177:24 **obviously** [12] 14:23 35:14 57:9 103:25 112:6 134:9 171:6 177:9 187:14 194:3,10 207:19

occasional [1] 106:12 occupational [24] 97:3 97:23 218:1,3,5 219:10 219:15,20,22 220:4,11 220:14,24 221:11,15,17 221:23 222:6.13.21.22 223:3,24 224:25

occur [1] 70:5 **occurrence** [1] 191:2 occurring[1] 198:9 ocean [3] 48:7 69:6 219:7 October [4] 98:15,19 100:15 101:22 off [16] 9:7 10:5 38:21

44:11 55:17 64:8 68:6 110:7 165:3 167:9,12 176:1 183:5 186:19 194:11 210:5

offer [2] 95:18 108:18 **offered** [1] 95:12 offhand [1] 115:16 officer [8] 40:12 116:10 126:15 127:2 158:11 160:5 189:1 194:3

official [3] 84:3 91:3 142:25

officials [3] 221:4,5 223:13

offshore [48] 1:13 8:6 22:25 47:5 49:15 86:13 89:20 107:1,2,19,22,23 138:15 142:16 144:21 149:12 150:16 151:17 153:1.15 154:7.12.13 156:1,19 169:2 178:10 200:12 215:7 217:13 218:3,7,10,11,21 219:16 219:17,23 220:4,12,20 221:16,19,25 224:4,5,7 224:9

often [4] 49:2 183:13 192:21 225:9

oil [12] 22:12 25:22 47:23 103:10 105:8 106:3 124:16 125:15 151:6,17 155:9 164:10

old [2] 3:18 13:3 **older** [1] 210:16

once [7] 65:21 67:24 68:3 164:24 168:6 206:22 216.19

one [98] 7:1,2 9:9 12:22 13:3 15:16 17:21 20:21 25:7 29:18 36:9 40:23 54:8,20,23 55:23 56:9 57:3 60:6,9,13 62:19 63:6 66:7,7,15 68:13,14 74:14,22 77:1,3 78:21 78:24 79:17,23 83:7 84:3 84:3 86:16 92:2.9.12.14 93:17 95:9 98:15 103:3 109:3 110:9 112:19 113:19 115:11,12 118:19 119:6,7 131:4 144:25 150:15 162:2 166:7,7 167:17 168:17 177:18 179:3,10,11 181:2,5 182:19,21 185:22 187:4 189:10 191:1,5,11 193:11 193:12 194:21 197:15 198:3,15,17,20 200:14 200:14 202:25 203:23 204:13.17 210:3 212:7 213:14 214:18 225:1

onerous [3] 200:10 201:4 201:16

ones [8] 21:14,20 79:2 106:1 165:15 179:3 201:4 201:10 ongoing [3] 142:22

onshore [3] 218:2 222:8

186:16 221:14

onto [3] 56:23 188:21 212:21

open [2] 30:12 119:15 **opened** [2] 100:18 214:23 opening [2] 215:8,19 operate [3] 85:18 87:1 154:25

operating [7] 25:20 78:10 114:12 142:15 143:2 157:17,18

operation [4] 59:10 65:24 106:24 212:12

operational [1] 218:25 **operations** [13] 104:20 111:1 117:24 119:3 145:21,24 151:13,18 153:19 183:2 208:10 210:7 224:4

operator [20] 7:1,4 57:16 95:18,19 96:2 97:17 98:7 99:14 100:13 101:15,24 102:11 103:18 105:6 142:23 150:14 167:17,18 193:13

operator's [2] 95:15

operators [39] 12:8,9 35:3 76:10 92:23 95:21 103:22 104:7,14 109:6 149:8,9 153:6,9,18 156:17 167:13 171:19 172:3 184:3,16 192:25 197:12 199:20,23,24 200:3,18,20 201:15,21 205:15.18.21 206:22.24 209:2 212:8 222:10

opinion [7] 96:10,14 134:9 155:4 156:13 181:21,22

opinions [1] 51:23 opportunities [1] 108:6 **opportunity** [12] 22:6 29:6 35:12 36:20 37:3 38:13,17 52:11 151:3 157:5 160:13 214:22

opposed [1] 117:18 **option** [7] 32:16 72:22 80:8 82:19,22 83:1,23

options [2] 114:17 153:22

oral [1] 52:2 order [10] 22:19 23:11 32:24 55:1 81:7 128:14 130:11 132:17 154:11 219:5

ordered [7] 4:24 79:12 80:16 129:5,19 130:2 132:16

ordering [2] 85:21 131:24

orderly [1] 218:8 organization [11] 7:22 26:5 115:8 116:1 119:10

119:25 126:14 146:21 151:22,25 171:25 organizational [3] 116:2,18 126:6 organizations [1] 146:7 originally [1] 160:3 **originated** [1] 110:20 **otherwise** [1] 156:13 ought [4] 27:11 51:12,18 109:15 ours[1] 159:25 **ourselves** [1] 20:5 outboard [1] 92:19 outcome [1] 137:25 **outdated** [1] 211:2 **outlined** [1] 29:11 outlines [1] 217:25 outside [4] 42:2 43:2 141:1 160:23 outstanding [1] 48:8 overall [2] 153:17 219:16 overarching [2] 15:2 56:10 **overhauled** [1] 103:18 overly [1] 76:24 oversee [1] 56:12 **overseeing** [1] 197:17 oversight [2] 56:10 106:16 overview [3] 123:7 144:14 217:22 own [15] 8:4 28:17 35:1 82:4,9 85:15 118:8 146:13,13,21 162:23 182:13 197:5,16 201:10 oxygen [1] 159:3

-P-

P-00183 [1] 216:21 paid [2] 149:20 154:5 PAL [1] 56:8 pan [3] 103:12,12,12 panel [8] 15:15 22:18 123:10 125:20 130:8 167:17 200:7,7 panels [1] 193:13 **parallels** [1] 67:16 parameters [3] 63:10 66:13 73:13 **paramount** [1] 224:7 **Pardon** [2] 101:6 202:9 parent [1] 114:11 **Parliament** [2] 26:23 50:23 Parsons [1] 106:22 part [20] 6:15 50:6 85:21 89:2 127:23 128:8 138:21 138:22 143:9 146:16 153:18 156:9 175:17 191:14 192:6 194:6 215:14 221:24 222:2 224:20

participants [1] 220:22 participate [3] 37:5 106:20 224:14 participates [1] 106:11 **particular** [18] 27:14 31:22 32:3 37:14 40:18 44:15 61:7,9 95:11,19 104:22 115:25 134:12 148:5 155:24 185:22 202:5 203:9 particularly [4] 40:10 50:13 116:7 162:7 parties [6] 217:20 220:6 220:12 224:6,8 225:16 parts [17] 128:14 129:5 129:7,9,20,24 130:2,3 130:11,13,18 131:5,24 132:16,18 134:3 209:4 party [5] 1:7 198:15 207:7 219:24 223:9 **pass** [11] 68:16 69:11 91:16 94:11,18 95:10,12 95:20 166:9.12 168:6 **passed** [3] 56:16 97:16 97:18 **passenger** [13] 60:7 71:22 82:12 89:9,14 90:5 100:18 164:20 170:5 175:6 193:16,20,23 **passengers** [35] 63:15 86:23 88:7,9 89:19 92:10 93:22 95:3 98:23 110:6 131:11 137:21 138:13 139:11,14,18 140:6,20 141:16 142:6 153:17 154:8 159:9 160:15 161:23 162:21 163:16 165:14,15 167:21 168:3 170:1 178:9,10,16 past [4] 112:9 144:1 160:9 205:12 pay [4] 108:24 109:1,7 152:24 **payload** [9] 86:19,22,25 86:25 87:3,16 88:1 90:6 pays [4] 47:22,23,24,24 Peet [1] 227:5

pending [2] 61:19 80:20 **people** [58] 7:10 12:23 17:2 20:23 24:16 25:19 25:20 27:1 36:16,20,22 38:8 39:12 40:20 42:9 42:12 46:7,14,23 47:19 47:20 48:1,1 49:1,3 51:17 52:17 54:11,13 60:1 65:24 69:10,22,23 70:17 86:12 88:17 89:7 93:3 94:17 96:6 98:17 119:17 124:11 130:7 131:10.18 138:6 140:19 158:16 163:24 164:5 165:13 166:8 169:1 186:5 193:24 216:12 per [3] 8:24 9:13 111:22 **perceive** [1] 146:20 **perceived** [1] 164:13

Multi-Page TM **percent** [1] 212:23 **perception** [1] 149:7 **perfectly** [1] 122:22 **performance** [4] 106:2 212:20,23 213:1 **perhaps** [11] 4:1 29:10 34:19 36:21 37:12 149:22 149:22 177:20 181:19 185:25 192:5 **period** [5] 12:11.16 57:9 165:18 193:18 **permit** [2] 53:5 107:21 **permitted** [2] 36:6 37:7 person [3] 66:7 195:6 214:18 **personal** [9] 8:4 28:17 156:13 176:12 179:25 180:5 181:21 215:9,13 **personally** [1] 180:1 perspective [6] 3:25 5:20 34:22 42:20 150:9 168:9 **pertaining** [1] 104:9 **Petro** [2] 84:14 85:23 **petroleum** [6] 1:14 49:15 218:9,19 220:21 222:22 phase [14] 18:3 34:1 35:3 36:10.10.11 38:19 51:16 54:9 59:9,14 217:5,6,9 phases [3] 36:15 111:18 224:15 **phone** [2] 194:14 195:4 **phones** [1] 167:14 **phonetic** [1] 13:3 physiological [3] 66:21 163:2 183:15 **pick** [3] 56:18 57:17 207:20 picked [1] 20:4 **piece** [9] 45:18 126:16 138:20 159:19 161:22 163:10 166:16,19,20 **pieces** [1] 185:16 Pike [1] 188:25 **pilot** [24] 5:8 55:23 56:9 57:5,16,25 58:8,12 72:21 72:24 73:6,8,14,17,21 158:20 177:9 178:19 183:13 194:3 199:16 202:4 214:16,19 **pilot-driven** [1] 57:21 **pilots** [31] 4:18 5:10,24 6:14,16 15:20 40:4 42:21 43:9 52:18 91:4 100:19 100:19 131:19 158:3 159:3,11 162:7,7,8 165:9 165:10 174:19,20 175:16 176:21 178:1 182:14 183:19 199:19 200:5 **pin** [1] 103:16 pitch [2] 183:11 186:9

place [10] 11:24 111:4

138:11 148:3,4 162:3

172:14 218:6 221:25

227:5 **placed** [3] 92:12,14 222:16 placement [1] 92:8 **places** [3] 108:4,6 164:8 placing [1] 27:9 plan [6] 55:17 56:22 57:14 67:20 107:22 221:5 plane [2] 186:19 209:25 **planning** [1] 132:14 **plans** [1] 113:2 **plant** [1] 198:6 **platform** [13] 46:6 56:5 57:9.19 63:13.22.22 97:4 98:21 103:11 106:24 167:20 168:24 **platforms** [1] 108:3 players [2] 30:23 52:4 **playing** [1] 155:2 **plays** [1] 218:23 PLB [2] 208:14,18 **PLBs** [2] 207:14,17 **plenty** [1] 28:23 **plucking** [1] 65:24 **plug**[1] 103:17 **pocket** [2] 146:14 175:22 point [29] 16:25 22:16 36:24 38:11 40:22 46:24 50:2 55:18 57:2 58:22 63:16,20,23 76:20 88:15 94:16 105:4,6 107:13 119:9 122:15 123:6 155:3 180:8 183:18 187:11 188:13 197:24 211:7 **pointing** [1] 201:18 points [4] 107:8 110:8 188:18 210:3 Police [1] 77:24 **Pond** [3] 88:21 90:1,25 **pool** [1] 128:10 **population** [1] 162:6 posit [1] 83:11 position [20] 10:19 23:23 27:21 29:14 30:14,18 33:14,21 34:3 43:23 54:1 68:18 92:13,15,15,18 96:1,3 134:10 216:6 **positioning** [1] 106:24 **positions** [2] 27:20 47:15 **possible** [7] 32:11 48:2 67:16 140:25 166:22 195:23 215:17 **possibly** [1] 70:1 post [2] 125:24 130:12 post-accident [1] 128:9 **posture** [3] 62:5 207:10 208:5 potential [2] 69:8 169:5 **pound** [2] 87:15 164:4 **pounds** [2] 86:18 87:6 power [8] 26:20,24 49:9 49:19 60:12 63:7 97:1 217:21

powered [1] 96:25 **PowerPoint** [2] 115:14 powers [4] 23:21 49:6,7 49:14 **PR** [1] 79:12 practicable [1] 32:14 **practical** [1] 222:5 **practice** [5] 174:4,8,8 176:25 177:24 **practices** [3] 171:20 198:8 222:12 pre [2] 59:8,16 **pre-alert** [4] 59:11,14 59:16,18 **precise** [1] 98:2 **predated** [2] 122:23,25 **predecessor** [2] 78:1,2 predicated [1] 108:1 **predicted** [2] 55:15,17 preempt [1] 23:23 **prefer** [3] 1:8 17:22 28:17 **preferred** [1] 172:4 prep[1] 68:3 preparation [1] 59:21 **prepare** [1] 42:13 **prepared** [1] 109:6 prepped [1] 59:19 **prescribed** [1] 191:8 present [3] 32:25 33:1 44:23 presentation [7] 3:16 3:17 106:22 115:14 169:25 199:18 204:18 presentations [1] 215:1 presented [7] 71:10,21 85:12 111:23 135:9 156:15 221:8 presenter [2] 155:23 225:18 **preserve** [1] 53:3 **President** [3] 116:9 126:14 127:1 **press** [1] 18:16 **presumably** [2] 133:23 206:5 **presume** [3] 116:2 128:20 197:15 **presumed** [1] 112:7 presumptuous [1] 143:9 **pretend** [1] 18:15 **pretty** [9] 26:24 50:25 51:1 75:17 88:6 163:8,9 203:4.5 **previous** [1] 155:23 **Previously** [1] 10:3 **price** [3] 114:16,20,22 **primarily** [1] 82:12

prime [1] 146:5

principle [2] 171:21

154:6

179:14 **principles** [3] 218:1 221:23 222:14 **proactive** [16] 118:22 119:2,8 120:1 135:10 136:14,17 142:7,8 146:6 146:16 154:20 157:12 162:20 163:9 205:18 **probe** [1] 47:13 **probing** [1] 36:1 problem [25] 3:19 64:16 92:23 122:11,17 123:2 123:16 125:12 126:9,15 127:2,14,24 128:5,15 130:9 133:12.18.23 135:9 136:12 140:13 143:3 146:3 147:6 **problems** [9] 13:13 14:13 25:8 135:25 136:5 146:21 162:10 163:5,6 procedural [3] 36:9 37:10 41:4 **procedure** [8] 10:10 43:10 61:5 195:14 208:13 208:15,18 217:20 **procedures** [9] 4:5,19 29:21 32:2 40:14 138:23 143:13 181:10 210:6 proceed [4] 39:21 64:8 147:13 225:25 proceeded [2] 128:12 221:1 **proceeding** [2] 17:22 28:6 **proceedings** [3] 37:2,6 46:8 process [35] 5:13 11:18 39:8,11,18 42:8 43:14 43:14,15 52:4,9 54:24 61:2,2 64:13 76:17 80:4 81:4 99:25 111:11 140:18 164:25 172:10,14 185:4 209:5 217:23 220:5,8,13 220:17,18,22 221:14 224:1 **processes** [1] 54:21 procurement [1] 85:22 **product** [1] 124:7 **production** [5] 85:19 103:11 114:4 151:6 224:9 **products** [2] 77:23 115:2 **profession** [2] 35:10 162:11 **profile** [8] 4:14 13:7,15 13:19 14:1 15:17 18:12 44:15

profits [1] 47:22

program [5] 9:23 112:16

145:15 146:11 160:6

progressed [1] 160:6

progress [1] 157:6

prohibit [1] 17:10

prolific [1] 151:17

promote [2] 154:11

promoting [2] 152:25

221:12

promotion [1] 77:3 **proper** [3] 68:4 109:16 179:6 properly [3] 27:4 126:10 166:15 **proposals** [2] 83:12 203:2 **propose** [1] 1:5 **proposed** [3] 219:1 221:7 222:4 **protect** [4] 170:12 177:15 177:22 180:11 **protected** [1] 219:18 **protection** [5] 157:16 170:17 180:3 187:24 224:6 protective [1] 8:4 **proven** [1] 4:17 **provide** [26] 13:21 15:2 97:15 100:4,5,12 107:1 108:16 110:11.13 131:9 160:23 161:4 170:17 171:4,11 192:21 202:5 208:11 214:22 217:11,22 218:11 219:19 220:10 223:5 **provided** [7] 99:14 202:7 205:17 212:25 215:1 223:20 224:10 **provides** [3] 77:4 151:23 155:2 **providing** [1] 66:20 **Province** [3] 47:24 49:12 49:21 **provincial** [2] 218:13 222:6 provisions [4] 72:7 222:1,8,11 **proximate** [1] 22:13 pseudomilitary [1] 211:4 **psi** [1] 164:4 psychological [1] 163:3 **public** [13] 14:25 21:23 25:19 39:11 40:21 42:8 42:15 49:20,20 54:21 143:15 190:15 225:8 publication [1] 20:23 **published** [2] 17:4 18:17 **pull** [1] 193:21 **pulled** [4] 66:17 68:12 197:25 198:11 **Puma** [1] 47:3 purchase [3] 72:7 114:8 114:11 purchased [2] 72:5 76:16 pure [1] 182:5 purpose [4] 23:18 194:23 217:16 218:14 **purposes** [4] 14:8 47:14 107:10 111:24 **pursuant** [1] 128:12

pursue [2] 38:14,14 **push** [2] 94:3 110:23 **pushed** [1] 111:7 put [38] 20:23 22:10 27:7 33:20 34:2 52:4 59:8 60:21,22 65:16 72:2 81:7 86:2,18,23 88:17 95:23 96:2 132:15,16 140:6 149:7 150:5 153:6 155:7 164:22 166:13,16,18 170:3 179:1,22 190:14 193:13 198:11 199:22 200:1 225:1 **puts** [1] 57:9 **putting** [6] 93:1 142:9 159:18 200:4 209:1 210:22 **-O-O.C** [218] 1:10 2:16 3:1 3:4,5,13 5:3,15,23 6:4,8 6:13,19 7:5,11,16,25

8:10,21 9:2,12,16,25 10:9,14,18 11:4,8,14,23 12:10,15,19 13:2,10 14:2 14:7 15:10,14 16:2,10 16:14,20,24 17:14,19 18:9.24 19:3 20:10.14 21:16.21 22:1 24:9.14 24:23 25:4,15,25 26:12 29:9 31:1,9 33:19 34:9 44:2 48:15 54:5,16 55:5 55:12 57:1,20 58:2,6,13 59:2,15,24 60:5,16 61:11 61:16 62:6,11,17,24 64:5 64:12,20 65:1 69:13,17 70:13,20,25 71:6,18,24 72:10,15 73:1,5,10,19 73:24 74:3,16,20,25 75:7 75:12,18,23 76:4,9,22 77:2,9,14,18,25 78:8,15 78:20 79:1,5,11,16,21 80:3,12,21,25 81:12,17 81:21,25 82:7,18,23 83:2 83:6,22 84:7,11,17,21 85:4 86:1,11,24 87:4,9 87:14.19.24 88:11.23 89:3,12 90:4,11,20,24 91:14,19,25 92:6,21 93:5 93:15,21 94:5,9 95:1,24 96:13,23 97:10,14 98:1

213:13,25 216:10 225:5 **QA** [1] 144:4 **QHS&E** [1] 113:11 qualifications [1] 202:4 quality [14] 7:20 113:11 113:12 116:8.15 117:15 117:20,21 126:13 151:21 151:21 156:10 198:3,12 questioned [5] 30:5

98:4.9.11 99:10 100:3.9

104:16,21 105:1,9,13,20

106:4,13,21 107:5 108:8

108:22 109:2,10 130:15

100:14 101:1,5,9,13

102:1,6,19,23 103:6

31:18,22 43:5,5 questioning [13] 32:25 39:13 40:9 41:8 113:16

147:14 150:17 158:15 166:24 189:12 questions [50] 1:5,17,22 2:3,7,11,17,22 3:14 13:5 17:11 30:17 31:4 35:15 35:20,23,24 36:2,7,21 37:1,3,13 39:15,17 43:13 43:19 44:12 51:12 53:10 53:18 54:4,12 82:2 88:25 108:9 109:14 115:7 118:17 120:5 147:18 148:2 150:8 152:12 157:24 158:22 203:22 209:8 213:12 214:2 **auick** [2] 15:5 167:8 quicker [1] 154:7

115:8 123:1 144:17

quickly [6] 67:2,15,21 69:11 113:3 193:21 quite [12] 20:1 33:10 63:17 65:19 78:1 83:3 155:11 157:12 164:7,10 169:3 187:22

-Rradar [3] 56:2 74:13 79:25 radio [4] 57:16,19 102:14 195:7 raft [2] 70:2,4 **rafts** [1] 154:23 raise [4] 17:9,11 36:9 216:7 raised [1] 127:5 raising [1] 188:18 RANDELL [2] 3:4 55:4 random [1] 9:23 range [4] 84:23 85:12 87:25 114:24 113:3 181:21

Ranger [2] 48:7 219:7 rapidly [2] 67:1 70:5 **rather** [4] 67:2 69:11 rating [2] 209:23 210:2 re-elaborate [1] 172:6 reach [2] 94:3,24 reached [1] 220:23 **reaching** [1] 187:6 **reaction** [1] 27:10 reactive [1] 119:6 read [3] 50:8 72:17 103:7 readily [1] 193:21 reading [3] 42:1 125:5 211:20 **ready** [7] 60:25 61:1 64:8

79:23,25 80:2 110:23 **Readying** [1] 68:8 real [2] 25:18 33:24 realities [1] 220:15 reality [2] 85:18,20 **realize** [1] 196:6 really [31] 3:24 19:8.15

23:19 32:15 35:16,25

36:11 38:11 42:1 45:20 58:17 67:4 70:14,16 108:23 146:5 150:3 153:8 153:23 170:10 177:11 178:23 181:4 187:20 192:9 207:9,17 208:11 208:14 213:2

realm [2] 188:3 193:19 reason [10] 17:9 46:23 46:24 47:1 80:5 157:7 162:1 167:18 179:8 223:22

reasonably [1] 32:14 reasons [5] 37:9,10 51:8 162:2 177:22

reassessment [2] 55:20 55:22

rebreathers [1] 163:24 recap[1] 100:4 receive [5] 50:17 56:4 112:16 140:22 203:1

received [6] 46:9 128:22 130:19 132:8 216:16 223:15

receiver [2] 207:18 208:20

receiving [2] 129:5 207:22

recent [1] 112:11 recently [2] 103:18 197:25

recertification [1] 8:9 RECESS [2] 109:21 213:22

recharge [1] 164:5 rechecked [1] 161:8 recognize [1] 15:4 **recognized** [2] 49:2 52:9 recollection [2] 113:14 125:4

recommend [4] 26:21 43:20 51:13 52:5

recommendation [4] 8:17 11:1,3 48:8

recommendations [7] 38:18,22 45:6 50:18 51:9 52:14 219:6

recommended [2] 50:15 50:19

reconfigured [1] 62:16 **reconvene** [1] 53:9 **record** [4] 34:20 105:21 147:19 182:4

records [2] 137:12 140:4 recovered [1] 66:7

recurrent [4] 145:15 146:12 164:6 200:11

redo [2] 56:21,22 **reduce** [1] 95:4

refer [5] 115:7,11,13 147:17 191:5

reference [13] 21:9 28:1 29:12 36:4 38:5.6 42:1 43:2 50:2,6 54:3 97:8

133:5

103:14

103:20 168:21

132:12 195:14

57:12

revealed [1] 103:16

58:7 112:20 132:11

reviewed [3] 118:21

reviews [1] 198:23

revision [1] 15:6

RFP[1] 203:1

110:1 158:4

revised [3] 4:13 15:17

RICHARD [4] 3:3 55:3

Rick [6] 3:3 55:3 110:1

116:14 158:4 178:22

review [5] 50:12 57:17

returned [3] 60:17 97:1

returning [4] 10:6 61:25

187:1 referencing [1] 65:22 referred [3] 91:12 149:21 211:23 referring [8] 114:2 119:19 122:3 145:7,11 145:19 154:20 184:25 refers [1] 117:15 **reflect** [6] 35:12 44:10 54:7 222:4,9,12 **refuse** [1] 223:4 regard [4] 166:3 168:23 183:21 216:4 regarding [2] 53:19 217:7 **regards** [5] 99:18 108:5 168:24 191:19 194:15 **regime** [9] 157:4 191:19 218:5,12 219:16,18,23 220:11 221:24 **regimes** [1] 222:7 **Registrar** [2] 115:9 117:10 registration [1] 103:9 **regular** [3] 138:20 144:4 198:25 **regulate** [1] 156:1 **regulated** [1] 149:11 regulates [1] 49:16 regulating [1] 156:19 **regulation** [9] 111:3 145:2,12 148:11 151:23 155:1,16 219:19 221:15 regulations [9] 49:24 52:19 218:18,22 219:3 219:11 221:18 222:21,23 **regulator** [2] 120:24 154:9 **regulators** [1] 197:3 regulatory [12] 45:7 50:21 51:1 52:7,15 110:20 155:6 157:3,4 191:19 217:12,21 relate [1] 203:23 **related** [7] 29:17 124:18 147:6,9,10 186:9 220:3 relates [1] 45:4 **relating** [2] 36:22 219:1 **relation** [3] 121:4,21 147:19 relationship [5] 113:17 116:11,19 118:10 222:9 **relatively** [1] 134:18 relay [1] 196:4 **relayed** [1] 56:15 **relevant** [2] 14:11 40:10 **reliable** [2] 76:24 212:15 relied [1] 126:17 **relocating** [1] 68:16 **remains** [1] 165:8 remarks [2] 37:19 214:3 remember [4] 88:19 136:24 156:24 183:17

remind [2] 22:2 24:10 remote [1] 222:10 removed [1] 60:24 **repair** [6] 134:11,16,18 134:22,23 141:7 **repaired** [1] 138:1 **repairing** [1] 134:12 **repeat** [2] 15:18 97:25 **repetition** [1] 45:9 **repetitive** [1] 70:15 replacement [2] 122:3 122:10 **replacing** [1] 103:19 **replicating** [1] 92:23 report [38] 11:10 12:8 17:23 22:15 23:17 30:11 31:5 32:8,15 34:3 41:14 41:15 42:12 43:13 50:12 53:15 60:1 99:5,12 101:14,19,23,24 102:15 105:17 132:20 147:20 190:14.16.17 191:11.13 192:17,19,24 193:1,5 219:8 **reportable** [4] 191:6,9 191:22 193:6 reported [14] 18:4 50:8 52:11 53:9,12 60:6 100:22 101:23 102:25 116:15 189:5,7 190:5 191:12 **reporting** [20] 99:18,22 116:9,10,19 117:25 118:9 118:14 188:22 189:14,17 189:24.25 190:1 191:1.2 191:4,15 192:10,15 **reportings** [2] 189:22 reports [4] 38:15 56:7,9 **represent** [5] 35:13 110:5 137:20 158:11,13 representation [2] 119:15,21 representations [2] 51:18 54:18 representative [2] 155:3 198:14 Representatives [1] 220:19 representing [6] 1:24 40:8,11 42:20 47:10 **reproduce** [2] 111:24 115:10 **request** [7] 80:19 97:2 98:5 203:1 206:21,23 209:2 requested [3] 51:25 177:7 184:16 requesting [2] 58:11 207:8 **require** [5] 91:21,24 154:10 201:3,16 required [14] 4:19 15:8 21:9 56:25 145:14 172:7

responding [1] 154:7 response [23] 5:1,2,9,9 10:4 14:3.19 32:18 44:12 59:13 97:22 99:3 126:4 147:15 152:4,15 186:22 194:6,19 195:14 208:5 209:13 210:11 responses [2] 98:6,8 responsibility [5] 55:25 56:11 117:6 140:23,24 **responsible** [4] 141:17 218:16,19 224:6 rest [1] 119:11 result [5] 50:14,19 217:6

217:9.14

resulted [1] 220:17

results [1] 181:20

resumes [1] 94:19

retainer [1] 205:22

return [3] 15:3 85:2

retardant [1] 173:15

173:21 191:12,20 193:1 199:24,25 200:18 203:16 **requirement** [5] 110:20 111:6 118:4 177:25 192:19 **requirements** [13] 96:12 184:6 199:19,21,22 200:4 200:9,10,24 201:7 203:3 222:25 223:1 **requires** [1] 117:3 rescue [34] 5:10 6:3,5,15 6:20.25 7:2.3.12 8:6 59:12 64:9 65:16 69:20 70:4 71:12 76:8 77:5 82:13 106:25 108:11,17 152:15 155:8 160:10 178:6 184:12 186:5,7 187:15 203:23 206:25 212:5.9 research [2] 151:24 171:7 reserve [4] 84:23 90:15 90:17,21 resolved [1] 215:16 resources [9] 218:9,20 220:2 223:8,8,14,16,18 224.9 respect [23] 18:11 25:5 28:1 31:16,20 32:6,12 34:24 38:19 43:13 44:4 45:19,25 98:6 99:3,6,13 102:11 106:3 134:9 142:5 196:23 199:16 respected [2] 20:20,23 **respecting** [2] 222:25 respective [4] 105:19 220:9 221:9 222:17 respectively [1] 78:25 respond [3] 52:21 152:14 153:9 **responded** [2] 152:13 192:8 **responder** [3] 204:21 205:2 206:14

ride[1] 146:14 **rig** [2] 63:6 107:23 **right** [83] 4:22 5:7 16:6 16:13 27:23,25 28:5,15 34:12 39:7.25 60:4 67:14 74:8 75:4 76:18 78:19 81:16 85:20 87:13,18 89:11 92:14,15 93:10,11 93:20,20,25 101:4 103:5 114:6 116:23 117:22 120:12,17 122:3,8,22 123:25 124:9 125:8 128:3 128:3 129:6 130:3.22 132:24 144:9.13.23 146:15 147:24 148:13,23 152:7,18,22 153:4 163:10 167:20,25 169:23 170:13 174:22 175:17 177:4.11 189:20 193:9,22 194:11 197:19 203:18,24 205:3 205:20.21 213:19 214:11 217:1 223:4 226:3 rigs [1] 212:13 **Ring** [1] 97:5

risk [24] 63:24 64:1 155:5 160:14 164:7.12 171:24 171:25 178:5,15 180:19 180:20,24 181:7,9,10,19 186:21 187:19 188:2,3,4 188:5,7 road [6] 32:16 37:11 39:16,19 47:18 84:4

robust [1] 210:20 Rogers [1] 39:10 **Roil** [4] 28:6 216:7,10 225:5

role [12] 6:25 17:12,15 23:5 24:5,10 36:15 38:9 51:11 52:9 53:19 218:24

roles [1] 217:19 roll [2] 183:11 186:10 room [3] 27:6 57:19 225:8 **Rose** [1] 46:6

rotational [1] 9:5 rotor [7] 138:19 157:15 187:24 198:16 212:19,20

212:24 rotorcraft [1] 210:23 **Roughly** [2] 172:18,20 round [2] 55:8 57:10 route [3] 89:23 103:9 190:14

row [4] 92:15,16,20 94:1 **Rowan** [1] 103:10 Royal [1] 219:7 **royalties** [1] 47:23 ruled [1] 26:19

rumours [1] 147:8 **run** [4] 107:14 132:13 178:21 181:19

runway [2] 60:18 63:18

-S-

S [4] 86:12 121:4 125:12 206:24 **S-61** [16] 113:19 203:25

204:4,19 205:3,15 209:15 210:14,24,24,25 211:22 212:2,8,18,20

S-91A [1] 29:24 **S-92** [29] 17:6 18:18,25 20:19,24 40:15 47:3 65:8 65:9 71:9 75:2 76:3,12 76:15 78:16 79:14 82:24 84:12 85:11 103:9 114:2 114:20,22 124:6,13 143:20 204:2,23 210:12

S-92s [7] 113:18 121:21 123:22 133:13 143:24 204:25 205:5

S92A [1] 50:11 **Sacuta** [1] 98:17 **safe** 171 12:14 32:14 45:3 95:15 155:4 166:22

221:12 **safely** [2] 60:12 103:14

safer [3] 180:8,15 215:25 safety [125] 7:20 9:19 14:14,15 17:13,16,24 18:4 19:24 20:15 21:10 21:22 22:9 23:5.9.16.20 23:24 24:7.11 26:19 29:23 30:5,22 31:18,25 32:8 37:23 38:9,15 39:2 43:11 44:24,25 45:2,5 48:20 50:4,7,9 51:4,6,22 53:8,13,20 97:3,23 99:5 99:12 100:23 102:16 103:1,7 110:10,11 113:12 116:8,15 117:22 118:18 119:5,18,20 126:13 136:14 141:20,22,24 142:2,13 144:6 149:23 152:25 153:17 154:6,11 159:19 160:5 161:22 162:20 164:13 176:19 178:20,21 180:8,17 183:25 185:13,16,23 189:1 190:1,25 197:16 198:11 215:2,3,7 218:1 218:3.5 219:11.15.17.20 219:23 220:4,11,15,25

February 4, 2010 221:12,15,18,24,24 222:7 222:14,21,22,25 223:3 223:24 224:5,25 **sake** [1] 214:20 samples [1] 25:9 **SAR** [9] 6:1,7 59:20 62:13 65:8,9 71:22 174:20 205:17 sat [1] 94:2 saw [2] 121:3 167:22 **says** [6] 42:3 63:5 87:15 108:14 127:23 188:4 **scenario** [3] 41:24 70:16 70:19 scene [5] 65:8,10,13 69:8 194:20 **scheduled** [1] 225:13 **scheme** [1] 134:23 school [11 106:9 Scotia [7] 49:13 79:6,9 105:7 219:5 220:7,20 screening [1] 167:21 scrutiny [1] 186:2 se [1] 111:22 **sea** [14] 65:22 67:3 70:6 70:8 148:5 151:5 156:10 157:20 172:3 184:5 186:8 186:8 211:21 212:5 **seal** [2] 19:20 171:8 **seals** [1] 171:9 **search** [15] 6:14 59:12 64:9 71:11 76:7 77:4 82:13 108:11,17 152:14 155:8 178:6 203:23 212:4 212:9 **searches** [1] 167:22 **SeaRose** [1] 46:6 seat [2] 94:3 98:25 **seating** [2] 94:23 95:16 **seats** [15] 60:23 62:12 86:23 92:16,17,17,19 93:2,4 94:2 95:21,22 96:9,11 99:1

second [9] 43:22 50:5 65:9 68:9 69:2,3 74:12 78:21 152:4 section [3] 29:13 203:2

220:25

secure [1] 169:6

secured [3] 168:5,8,11

security [4] 167:7,19 168:6 169:16 **see** [29] 21:8 24:3 45:9 47:6,8 48:5,9 51:12 69:10 82:16 83:13 91:4 95:25 144:20 145:1 160:19 169:5,9 174:15 179:7 181:20 187:13.22 187:25 192:20 203:5 210:11 213:6 214:6

seeing [1] 92:2 seek [2] 213:7 221:1 seeking [3] 23:7,7,9 seeks [1] 217:19

seem [3] 35:1 78:3 166:25 **seemingly** [1] 20:20 sees [1] 56:3 **selection** [1] 172:10 send [2] 47:11 182:14 **sent** [2] 57:14 207:17 separate [3] 111:11 175:21 220:16 **sequence** [1] 65:5 **sequences** [1] 58:18 **serial** [4] 75:4 80:17 81:10 211:18 series [2] 135:1,1 serious [2] 96:17 195:4 **seriousness** [1] 166:13

service [30] 5:9.11 15:3 78:16 86:3,3 103:21 120:8 121:10,12,19,23 122:15,19 123:17,22 125:11 127:12 131:24 132:3.9.11 133:5.11 135:16 138:8,17 139:23 140:15 155:8 **services** [1] 77:5

sessions [1] 221:6 set [11] 28:12 29:12 48:21 49:25 52:8 69:1,2 85:6 170:15 187:18 222:20 sets [1] 221:22

seven [2] 162:21 163:7 several [2] 111:22 120:1 **shaking** [1] 133:14 **shall** [2] 50:11,13 **shaped** [1] 103:16 shared [2] 213:10 223:12 **sheet** [1] 8:15

shift [1] 9:7 **ship** [4] 94:12 106:25,25 169:1 **shortly** [2] 86:9 121:5

shows [2] 74:13 118:23 **shut** [2] 60:8.9

sic [1] 199:17 **side** [18] 4:21,22 66:16 83:17 93:2,10,11,18 94:1 95:13,16,23 117:22 119:7 119:7 179:19,21 199:3

sides [1] 95:13 **signals** [1] 207:16 **significant** [6] 15:1 90:7 177:18 197:8 212:17 215:9

Sikorsky [29] 2:13 34:7 50:10 52:20 71:10 77:23 78:4 79:12 82:11,24 83:14,23 84:24 87:15 103:8 113:17 120:14 121:20 124:6 133:13 197:9,14,15 198:1,6,7 198:21,23 199:12

Sikorsky's [1] 82:9 **similar** [9] 49:14 127:14 128:5 136:6 142:13 168:2 168:5,12 203:5

simpler [1] 46:20 **simplify** [1] 15:11 simply [2] 153:6 212:21 **simulated** [1] 200:13 **simulator** [6] 4:17 16:4 16:17 63:11 106:10 200:14

single [7] 63:16,19 66:12 92:16,16 105:4,5 sit [6] 48:13 93:3 94:17

94:25 161:11,11

site [4] 90:14 107:2,10 189:3

sitting [2] 96:4 225:12 **situate** [1] 67:5

situation [25] 3:22 26:10 43:12 46:17 60:7 61:6 61:25 62:1,4,8 64:19 66:3 67:13 70:2.3 93:1 96:6 100:19 107:15 108:10 178:13 185:18,22 205:1 206:18

six [8] 23:12,13 42:2 102:22 116:25 127:15 183:6 212:18

skill [2] 48:25 187:18 **slide** [10] 115:22.24.24 115:25 117:11,13,14,17 118:13 126:7

slides [1] 111:23 **slightly** [1] 189:15 **slipped** [1] 26:3

slower [1] 73:17 small [2] 10:19 225:8 SMS [1] 9:19

so-called [2] 118:18 119:18

software [5] 73:25 74:6 75:15,19 80:7

solid [1] 212:3 **solidify** [1] 5:1

someone [6] 22:22 47:10 52:24 67:17 126:13

sometimes [4] 55:15 76:23 203:4 208:4

somewhat [2] 31:16 42:19

somewhere [3] 87:10 137:12 193:19

sons [2] 41:2,22

Sooley [1] 227:11

soon [11] 22:9 32:11 86:18 88:7 129:7,12 140:25 159:12 195:19,21 196:17

sophisticated [2] 134:23 146:10

sorry [6] 33:5 98:18,19 117:13 127:12 129:19

sort [6] 27:4 45:10 87:25 189:2,22 207:7 **sound** [2] 61:3 227:7

sources [2] 20:21 196:7

space [1] 82:15

speak [17] 23:24,25 28:19 41:3 48:14 57:18 61:6 64:18 95:6 153:23,25 162:25 195:15 198:1.18 200:5 216:18

SPEAKER [1] 61:14 **speaking** [4] 76:15 86:25 158:18 211:2

spec'd [1] 76:10 **special** [1] 206:18 **specialist** [2] 6:25 65:16 **specialists** [8] 5:10 6:3 6:5,20 7:12 8:6 144:10 160:10

specialized [2] 135:2,2 **specific** [7] 5:4 30:6 34:15 50:1 74:11 88:3

specifically [5] 8:5 76:3 96:22 99:8 183:2

specifications [1] 174:25

specifics [1] 125:17 **specs** [3] 174:19 175:5,9 **speculation** [1] 94:12

speed [1] 73:9 **speeds** [1] 73:16 **spent** [1] 86:19

sphere [2] 52:24,24 **spinal** [2] 66:22 68:2

spine [1] 66:23

spoke [8] 34:6 119:4,5 120:8 127:16 154:1,5 156:4

spoken [1] 22:16 **sponsor** [1] 106:1 **spot** [1] 27:7

St [19] 10:6 57:16 60:17 60:18 85:3.14 88:20 96:19 97:1 107:7 108:18 203:25 204:20,22 205:1 206:8 207:2 227:5.9

stability [3] 72:19,25

stabilization [1] 211:15 stable [1] 218:11

staff [6] 5:7,8,9 166:14 166:18 215:21

staffed [1] 7:9

stage [5] 39:14 43:21,22 53:18 161:8

stakeholder [1] 221:6 **stance** [8] 5:1 135:10 142:7,8 154:21 179:7,16 206:16

stand [1] 156:23 standard [19] 8:18 12:7 12:9 59:9,10 61:5 85:10 96:17 112:18.23 138:22 146:18 153:10 154:23 170:11 171:10 203:4 209:6 210:16

standards [7] 148:16

155:16 170:2,4,6 203:9 215:7

standby [7] 10:4 58:21 59:4 60:20,23 62:5 205:17

standing [4] 6:24 127:6 142:22 224:23

starboard [1] 93:18 start [9] 27:6,8 61:1 81:18 110:7 115:24 155:3 159:2 225:14

started [11] 5:12 61:2 81:4,6,22 129:7,12 131:24 160:15 161:2,24

starting [2] 130:18 225:21

state [13] 18:14 44:23 45:24 66:21 67:3,12,17 70:6,9,9 184:5 186:8,8

statement [5] 46:20 66:10 90:10 178:22 215:8

states [1] 65:23 **status** [2] 60:20 143:17

statutory [1] 38:8

Stavanger [1] 151:9 stay [2] 70:4 71:3

stayed [1] 207:1 **steel** [1] 23:4

steps [1] 47:3

still [15] 31:3 48:8 68:23 78:9 80:20 89:19,21 157:19 158:21 166:24 180:4 187:24 203:15 208:14 212:5

stipulated [2] 139:2 201:9

Stokes [1] 67:9 **straight** [1] 91:5 **strand** [1] 72:18

strange [1] 107:17 **straying** [1] 130:22

Street [1] 227:5 stretched [1] 68:5

Strickland [3] 2:2 33:18 33:19

stringent [5] 143:12 170:3 199:21 200:4,8

stripped [1] 87:5 **strive** [1] 136:16

strong [1] 210:3 **strongly** [1] 32:10

structure [2] 4:9 116:3

structured [2] 12:4 145:14

stud [1] 123:16 **studs** [15] 122:4,10,12 122:18 123:3 124:18 125:12 126:9 127:14,24 133:13,18 134:13 135:3 137:4

stuff [2] 209:4 215:1

stun [1] 13:4

style [2] 155:25 178:14

subject [4] 38:18 73:16 143:25 220:14 submission [19] 20:2 34:10,12,15 216:15,16 217:4,14,18,25 218:4 221:22 223:7,13,17,20

224:11,16,19 **submission's** [1] 217:16 **submissions** [2] 52:2 54:17

submitted [1] 216:24 **subsequent** [2] 36:15 131:21

substance [1] 133:16 succinctly [1] 30:17 such [23] 21:15 39:2 56:7 66:6,22 67:5 69:9 76:19 88:21 107:9,25 151:8 154:21,25 160:8,8 163:25 167:10,14 198:21,24 206:7 212:12

sudden [1] 204:23 **sufficient** [3] 60:12 63:7 88:15

sufficiently [2] 55:19 107:8

suggest [8] 17:20 28:6 45:16 55:23 56:20 91:7 174:14 225:21

suggested [2] 51:14 106:23

suggesting [2] 27:11,12 **suit** [22] 10:20,21 67:5 68:6 164:2 170:1,2,5,6 170:11 171:5,7,8,9,14 171:15 172:1,4,11,13,22 173:14

suitable [1] 170:17 **Suite** [1] 227:5

suits [9] 19:17,19 169:24 170:20 171:22 174:19 175:6.9.17

summed [2] 113:3 160:22

summer [11] 22:10 124:12 130:9 135:7,19 135:19 136:10,21 142:14 143:23 147:3

sun [1] 72:17

Suncor [3] 2:5 33:21 84:14

sunglasses [1] 179:2 superficial [1] 46:1 superior [1] 210:12

supplemental [1] 222:23

suppliers [2] 197:22,22 **supply** [4] 98:6 160:8 174:18,25

supplying [1] 207:9 **support** [3] 198:6 199:2

supporting [1] 207:10 **supportive** [1] 215:21 **supposed** [5] 61:20,23 111:2 112:24 183:20 surely [1] 46:10 surrounding [1] 51:20 survivability [1] 67:22 Survival [2] 161:1,2 survivor [2] 66:25 68:15 suspect [1] 68:1 sustain [1] 210:22 swimmer [2] 7:2,3 system [36] 8:4 9:20

system [36] 8:4 9:20 19:13,24 20:4 45:1 48:20 55:7 72:18,20,24,25 73:2 110:10,12 118:14 119:5 119:20 131:10 132:17 138:7,12 144:4 162:5 164:20 165:16 174:2 187:24 189:16 193:22 194:7 211:14,15,15

systematic [1] 181:22 **systems** [8] 20:16 161:1 161:2 185:13 197:16 211:13,17 220:16

212:19,21

-T-

Tab [2] 115:11,12 table [1] 83:12 tabs [2] 115:12,13 tactical [1] 178:7 tail-low [1] 98:22 take-off [1] 100:17 takes [8] 28:25 65:2 66:23 67:9 68:13 92:15 138:10 187:17

taking [3] 15:25 130:22 162:12

tangible [2] 142:22 143:8 tank [34] 4:21 82:4 83:1 85:6,25 86:2,8,17,23 88:13 89:4,13,20,20,22 90:2 92:10,12,20 93:1,9 93:11,18,23 94:1,3,17 94:25 95:13,17,23 96:5 96:10 159:3

tanks [17] 82:2,9,11,13 82:20 83:19,24 85:14 86:14 88:16 91:22,24 92:1,5,8,9 93:13

Tara [1] 227:5 **task** [4] 69:20 160:3 161:11 219:8

taxpayers [1] 143:15 team [5] 197:25 198:2,11 198:13 215:15

team's [1] 214:24 technical [1] 218:25 technically [1] 208:16 technicians [1] 6:1

technicians [1] 6:1 technique [1] 208:10 technology [2] 148:17 207:18

techs [1] 6:7 **telephone** [2] 46:9 47:12

telling [10] 14:16 26:14 26:17 61:20 81:13 93:6 94:15 142:18 162:19 178:13

tells [1] 199:25 temperature [2] 87:21

ten [5] 12:1 28:22 89:14 89:18 109:4

tendency [1] 179:24 **tendered** [1] 32:9

tenor [1] 37:2

term [2] 42:2 209:19 **terminate** [1] 13:25

terminology [1] 117:13 terms [34] 14:11,18 20:18 21:8 28:1 29:11 36:3

38:4,5 42:1 43:2 50:1,6 54:2 56:1 64:21 87:3 89:6 90:12 92:8 134:12 134:19 140:5 143:21 152:3,14 183:24 184:4 193:10,25 210:11 219:13

Terra [6] 46:5 60:8,10 60:13 84:18 88:8

221:19 222:19

tested [1] 16:16 **testimony** [1] 155:23 **testing** [2] 9:23 25:9

tests [1] 4:17

thank [67] 1:16,19,22 2:5 2:9,11,19,22,24 3:2 29:2 29:10 31:8,10,14,15 32:20,22 33:18,22 34:5 34:6 35:6,9,10 37:19 39:25 40:2,7 42:16,18 42:18 43:23,25 48:12 64:4 70:21 109:11,13,20 109:25 157:24,25 158:2 158:7 175:15 176:14 182:8 188:20 193:9 196:23 207:12 209:8,9 209:12 213:6 214:1 215:14,18,25 216:3,3 217:1,3 225:2,4 226:3

theirs [1] 42:9 theme [1] 22:7 themselves [2] 42:14 47:25

theory [1] 171:20 thereafter [1] 86:9 therefore [3] 43:13 56:21 187:13

therefrom [1] 50:12 **thermal** [8] 170:22,22 171:5,13 173:6,16,17,21

they've [9] 31:4 60:2 77:21,22 86:12 95:22 96:3 171:15 174:1

thinking [1] 187:3 third [2] 198:15 200:2 thorough [1] 146:11 thought [1] 8:11 10:2

thought [11] 8:11 10:2 68:22 89:2 129:19 131:3 147:2 156:5 179:3 205:7 214:20

thoughts [2] 28:18 187:9 thousands [1] 138:13 threat [1] 169:9

three [42] 1:6 7:6 12:7,9 29:20 30:6 47:7 55:23 65:2,12 66:11 67:1,17 69:10 70:14 72:19 73:8 89:6 92:17,19 102:2,4 104:14 130:7 151:13 170:25 172:23 173:5,20 173:25 174:4 175:1 189:22 190:4 199:23 200:2,22 201:21 207:7 212:9 220:16 222:15

through [33] 1:4 4:16 11:19 19:11,23 26:3 42:21 46:16,18,22 48:3 48:4 65:4 99:25 111:5,9 112:14 114:11 132:13 143:15 144:4 146:8 159:24,25 160:21 163:5 164:20 168:6 178:21 199:1,18 221:19 222:1

throughout [2] 164:8 171:18

throw [1] 112:19 Thursday [1] 225:19 timely [4] 144:12 195:20 195:20,22

times [6] 57:11 65:7 120:1 152:5 200:11 205:4

timing [1] 13:23 Timothy [1] 158:10 tip [1] 212:13

tire[1] 179:24 **titanium**[2] 22:11 140:13

today [18] 7:23 15:24 40:8,22 41:25 78:11 104:13 116:3 157:7 158:7 158:8,15,18 162:19 189:12 191:7 215:24 225:7

together [6] 4:11,23 13:17 171:17 198:11 205:20

tomorrow [1] 225:13 Tonight [1] 46:5

too [8] 10:17 11:16 61:17 150:19 162:25 177:4 188:24 195:5

took [9] 28:10 66:5 97:21 142:8 162:2,3 163:6,7 179:13

tools [2] 135:2,2 top [2] 67:4 144:7 topic [1] 127:9 torpedo [1] 83:18 total [2] 140:24 151:13 totally [2] 37:1 104:7 touching [1] 134:24 tough [1] 181:5 towards [3] 164:23 208:25 212:16

town [1] 207:1

tracked [1] 8:9 tracking [1] 8:3 trade [1] 72:16 traffic [1] 190:17 trained [4] 4:19 63:11 169:2 183:19

training [29] 2:15 7:22 8:12,15,24 29:20 32:1 45:8 106:5,6,8,9,10 109:5 144:18 145:2,15 146:9,11 160:23,25 161:3 161:5 163:4 164:5,6 166:9 171:16 199:16

transcribed [1] 227:6 transcript [1] 227:3 transcripts [1] 118:21 translated [1] 104:4 transmission [1] 208:18 transparency [7] 36:24 37:9 38:3 40:20 46:4 54:21,24

transparent [3] 104:7 119:16 140:16

transport [39] 1:19 4:11
4:16,20 13:18 32:25 33:3
71:12 91:2 106:11,14,16
106:16 107:21 110:13,15
110:22 116:24 117:2,5
118:3,14 142:4 143:16
144:5 145:13 160:21
167:11 168:10,25 170:15
178:14 189:3,25 190:25
200:15 201:3 202:2 211:6

transportation [46] 14:14 17:12,16,23 18:4 21:10,22 22:8 23:5,20 23:24 24:7 26:19 29:23 30:5,22 31:17,24 32:8 32:13 37:22 38:9,15 39:2 43:11 44:24 45:4 48:20 50:4,7,9 51:4,6,22 53:8 53:13,19 99:5,12 100:22 102:16 103:1,7 111:1 170:5 190:1

transported [1] 138:14 trauma [2] 177:17,20 travel [2] 91:15 225:19 travelled [1] 161:4 treading [1] 28:16 treated [1] 3:19 trial [1] 3:18 tried [2] 15:21 210:25 trigger [1] 59:3

trip [s] 55:9 57:10 88:18 88:22 90:3

trouble [1] 58:15 **true** [2] 71:5 227:3 **try** [3] 127:6 171:22,23 **trying** [7] 23:23 66:24 67:4 88:4 121:14 152:1 164:21

TSB [24] 14:24 32:15 34:2,25 41:6,6,13 42:12 43:7 45:25 47:8 52:10 99:17 101:23 104:1 189:14,18 191:7,11,15

191:18 192:9 193:1,6 **TSB's** [1] 52:13 Tuesday [4] 120:7 127:17 225:23 226:4 **turn** [7] 55:6 67:2 117:8 126:7 197:7,13,14 turned [11 60:10 **Turner** [1] 185:12 turns [1] 190:12 TV [1] 12:24 two [60] 7:6.9 9:7.10 12:22 26:22 27:20 28:14 29:19 40:8,17,25 49:10 49:11 50:21 56:4 65:12 68:13 69:23 71:11 80:18 80:22 81:4,10,18 89:18 91:9.21.24 92:1 96:25 102:4 115:10 129:25 130:7,11,20 139:8 146:7 151:12 158:14 161:14,16 161:18 163:7 166:8 170:2 186:12,17 191:1,11 195:20 199:22 201:15.21 207:24 208:1 209:3 214:24 224:24 two/three[1] 151:10 type [9] 41:20 83:18 160:10 164:1 173:17 200:25 204:21 209:22,23 **types** [2] 43:18 76:19 **typical** [1] 114:16 **Typically** [1] 57:8

-**U**-

Uh-hm [14] 5:22 8:1,11 73:11 74:17 86:2 87:23 107:4 127:21 131:15 137:7 140:1 145:17 149:14

UK [3] 156:23,24 211:3 ultimately [2] 109:1 131:8

Um-hm [2] 16:19 71:17 **unapproved** [3] 137:2 137:3 147:9

unclear [2] 110:9,14 uncomfortable [2] 95:3 180:1

under [16] 25:20 31:25 32:3 38:4 49:9,20 154:17 192:17 193:6 205:21 209:1,22 217:21 219:11 219:18,21

undergoes [1] 8:23 **undergoing** [1] 163:4 underneath [2] 83:18 210:9

undersigned [1] 227:2 understand [35] 12:23 13:6,23 15:7 16:3 18:13 30:1,20 31:5 39:7 42:8 55:8 58:17 60:11 71:25 72:1 87:5 91:20 94:8 95:10 98:20 101:12 105:22,23,25 118:13 123:2 137:23 165:15

190:24 195:1 203:20 205:5 214:15 224:23

understandable [1] 21:1

understood [11] 53:23 122:18 124:15 137:9 159:10 162:1 169:24 176:20 182:10,22 217:10

undertake [1] 50:11 **undertaken** [3] 50:15 50:20 52:7

undertaking [9] 37:25 51:15,15 53:6 98:3,5 100:12 101:21 102:20

undertakings [3] 102:2 102:5 189:17

underway [1] 219:19 **underwear** [2] 171:14 173:17

undoubtedly [1] 188:1 unduly [1] 188:5 unfolds [1] 226:1 **unforeseen** [1] 219:9 **unfunded** [1] 146:8 **uninjured** [1] 66:17 **unique** [1] 222:9 **uniqueness** [1] 203:6 **unit** [4] 10:5 57:2 71:25 72:2

units [1] 103:3 **University** [2] 2:14 34:7 UNKNOWN [1] 61:14 unless [2] 30:17 37:10 **unlike** [1] 170:1 Unlimited [2] 227:12,14 **unpopular** [1] 53:2 unpredictable [1] 107:18

unreasonable [1] 69:22 **unsafe** [1] 96:10

up [59] 20:4 26:14 47:2 48:21 49:25 51:7 52:9 56:18 57:17 65:18 66:2 66:5,15,17 67:6,10,18 67:24 68:13.24 70:5 77:1 82:14,14 90:18 101:17 101:25 109:4 112:8,10 113:3 117:8 118:23 120:6 126:7 127:8 147:17 153:8 155:13,14,22 160:22 161:7 185:21 186:5 187:23,25 189:10,11 190:3 191:21 193:21 195:25 196:2,15 204:19

207:20 214:23 215:19 **updated** [1] 56:15 **upgrades** [1] 74:11 **upstairs** [1] 132:21 **used** [14] 85:13 128:1 138:21 159:9 162:6.17 165:9,9 166:6 171:15,20 172:3 180:2 210:4

useful [1] 4:12 users [7] 131:10 138:6,7

138:11,12 140:19 141:12 uses [1] 219:12 using [9] 16:17 65:3 135:10 159:12,12 163:20 165:16,18 212:4 **usually** [1] 66:11

-V-

V [1] 55:4 **valid** [1] 187:11 **validates** [1] 184:23 value [4] 27:5 52:20 178:24 190:24 **variable** [1] 107:8 **variances** [1] 70:11 variant [1] 83:11 **variants** [1] 83:13 **various** [7] 11:19 44:4 49:22 60:1 171:19 217:19 225:16

varv [1] 88:8 **vehicle** [2] 160:25 218:13 **vendor** [2] 198:9,10 **venerable** [1] 211:23 **verdict** [1] 49:4 **verify** [1] 185:3

versa [1] 104:12 versus [3] 15:24 160:16 178:8

vertical [1] 67:13 **vessel** [2] 169:7 200:12 vessels [2] 169:15,16 vests [1] 8:7 vetted [1] 4:16

vibration [1] 213:1 **vice** [1] 104:12

victim [4] 66:25 67:22 68:10,14

Victoria [2] 206:3,7 video [2] 46:7 167:23 videos [1] 3:19

view [13] 23:16 28:17 29:8 30:10 36:24 61:21 63:23 122:15 144:11 149:10 180:8 183:18 211:7

views [4] 27:5,5 30:16 169:17

visual [2] 183:18 186:25

volition [2] 118:9 146:13

visually [1] 56:3

VIH [1] 198:14 **Whalen's** [1] 34:23 **Viking** [3] 173:1,3,5 VIP [1] 71:22 **wheels** [1] 109:4 **virtually** [1] 59:7 whereby [1] 39:8 virtue [1] 73:25 **Whiffen** [1] 208:12 **vis** [2] 150:25 151:1 **White** [1] 46:5 **vis-a-vis** [1] 224:24 **vision** [1] 183:17 visits [1] 198:25 224.12 visor [2] 178:25 179:1 wide [4] 23:21 49:6 83:11

-W-

volume [4] 148:21 150:4

150:7,13

wait [9] 1:9,11 23:13 42:12 69:6 88:24 91:10 135:15 136:13

waited [1] 131:5 **waiting** [1] 32:15 **walk** [1] 47:2 wants [3] 67:14 202:5 216:7

watch [1] 52:22 **watched** [1] 174:13 watching [1] 12:24

water [23] 65:3.15.17.25 66:4,14,15,24 67:8,11 68:10,11,21 69:6,23,24 170:8 186:6 187:17 204:1 204:9 209:23 210:6

waterproof [4] 171:4 173:11,13,23

wave [1] 163:12 ways [5] 19:15 21:1 157:9 188:9,11 wealth [1] 47:21

weapons [2] 169:1,5 wear [22] 169:25 170:21 172:22 173:19,21,25 174:4,20 176:23 178:1,6 178:7.10.11.23 179:2.5

180:9,9,15,16,22

wearing [6] 160:10 175:10 177:1,2,23 179:19 **weather** [14] 55:16,25 56:1,4,20 57:12,13 71:2

90:1 91:7 107:6 108:2 157:18,18

webcam [1] 39:10 week [5] 9:7 198:5,9 225:18 226:1

weight [3] 71:1 87:10 90:6

Wells [3] 29:10 215:19 224:12

west [2] 198:15 206:1 Whalen [20] 1:10 29:7,9 31:1,8,9,15 33:22 34:6 43:3 97:24 98:1,9 102:1 130:15 133:3 213:11.13 213:24,25

whatsoever [1] 37:17 **whole** 171 146:25 159:23 163:20 170:9 176:1 213:8

138:19

wide-ranging [1] 163:25

wider [1] 162:13 William [1] 106:22 Williams [66] 3:3,9 10:23,24 11:6,9,12,17 11:25 12:12,17 55:3 62:22 95:6,8,25 96:8,14 99:19,21 100:7,24 101:3 101:7,11 104:3,5,19,24 105:3,11,16,24 106:18 110:1 126:2,3 133:8,14 158:4 161:15 168:14,16 172:21 174:6 184:20,24 192:13,14 193:2 194:17 195:18 196:1,8 201:22 202:1,8,12,24 204:14 206:2.19 207:6.23 208:7

willing [1] 108:24 **willingness** [1] 140:17 wind [6] 63:13 68:17 85:1 85:2 87:20 90:8

window [3] 94:4,24 195:6

208:24

windows [1] 82:14 winds [2] 88:18 89:21

wing [2] 138:19,19 **winglet** [1] 83:17

winner [1] 172:2

wiring [2] 74:14 80:1 wisdom [2] 50:5 52:8

wish [4] 37:24 48:13 74:12 208:8

wished [1] 216:14 wishing [1] 27:7 **withdraw** [1] 216:9

within [13] 10:6 22:21 23:11 24:6 31:23 38:20 49:23 73:13 98:23 141:7 187:5 188:6 220:16

without [8] 25:22 38:22 47:25 60:18 86:13 103:14 120:3 166:14

witness [2] 30:4 131:4 witnesses [3] 1:6 35:21 155:22

wonder [1] 130:21 **wondering** [7] 112:5 138:5 178:2 185:21 190:3 197:6,12

word [5] 19:12 71:13 118:22 120:1 195:20

wording [3] 31:20 44:6 45:23

words [4] 119:12,13,13 195:20

worked [2] 158:16 163:5 workers [3] 219:16 220:5 224:7

workforce [1] 46:12 **workhorse** [2] 210:15 212:4

works[1] 80:13 **world** [7] 26:6 78:10 85:17 123:23 164:8 177:5 212:8

		Offshore frenc	opici Saicty inquiry
worldwide [1] 171:18			
worn [2] 177:6 178:12			
worse [1] 195:8			
worthwhile [1] 169:19			
wrist [1] 171:8			
write [1] 23:17			
writing [2] 52:2 147:20			
written [2] 20:19 216:15			
wrong [5] 20:6 24:21			
25:10 127:24 152:10			
year [8] 12:5 22:21,25			
23:13 53:12 79:10 141:7			
161:20			
years [36] 12:2 32:16			
48:9 77:11,22 80:19,22			
81:4,11,18 112:9,11,17			
113:13 116:25 138:21 146:8 151:7 157:6 160:11			
161:14,16,18,25 162:3,8			
162:22 163:7,23 166:6			
168:19 172:23 178:11			
180:4 210:4 212:18			
yesterday [13] 9:22 22:4			
22:17 66:10 105:5 111:23			
123:21 131:3 144:18			
147:16 161:5 176:20 185:1			
yet [5] 26:18 41:10 111:7 159:11 186:22			
yourself [2] 177:21			
215:19			
213.17			
-Z-			
zero [2] 85:1,2			
Zulu [1] 65:7			