

EXHIBIT/P-00155



Cougar Helicopters Presentation

Offshore Helicopter Safety Inquiry

No Compromise...

“No operation or business opportunity, either new or ongoing, should ever compromise safety or unduly affect our accepted levels of risk of the VIH Aviation Group of Companies”

Ken Norie (President and CEO)

Cougar Helicopters Presentation Outline

1. Corporate Overview
2. St. John's Base Overview
3. S-92 Selection
4. Aircraft Maintenance
 - A. Video
 - B. Presentation
5. Dispatch
 - A. Video
 - B. Presentation
6. Flight Operations
 - A. Video
 - B. Presentation
7. Passenger Movement
 - A. Video
 - B. Presentation
8. First Response (Search and Rescue)
 - A. Video
 - B. Presentation
9. Safety Management System (SMS)
 - A. Video
 - B. Presentation
10. Conclusion



Corporate Overview

Corporate Overview

VIH Aviation Group Key Events

- 1955: Company founded in Victoria, B.C.
- 1960 - 80s: Continued Western Canada Expansion
- 1989 - 2009: Entered emergency medical services (EMS) market through B.C. Air Ambulance Service contract
- 1991: Ken Norie founded separate heavy-lift helicopter business
- 1999: First international contract; China seismic
- 2000: Ken Norie acquired control of VIH
- 2001: Entered the oil & gas seismic market
- 2003: Entered Offshore Oil and Gas support market **via acquisition of Cougar**
- 2005: Introduction of S-92 in St. John's NL
- 2005: SAS/SAR Gulf of Mexico, Canada NWT
- 2006: SAR/SAS Alaska, NWT Canada
- 2007: Entered Australian offshore market
- 2008: VIH Cougar certified as FAA Part 133/135 operator
- 2008: Supplied 6 helicopters to First Angolan free elections incl. 3 S-92s
- 2009: Purchase 50% of HNZ Cougar Helicopters Australia



Corporate Overview

VIH Aviation Group Company Overview

VIH Aviation Group is a leading provider of commercial helicopter services in North America

- Business organized into two primary segments based on aircraft capabilities:
 - Instrumental Flight Rules (IFR):
 - Medium and heavy aircraft used in missions primarily for offshore oil & gas, search and rescue and emergency medical services
 - Visual Flight Rules (VFR):
 - Light and medium aircraft used to serve seismic, mining, forestry and tourism industries
 - Heavy aircraft used in heavy construction, firefighting and heli-logging industries
- Current fleet (01/10) comprised of 17 IFR aircraft, 57 VFR aircraft and 2 fixed-wing aircraft
- Customers include major international oil & gas companies such as BP, Husky, Shell, Suncor, ExxonMobil and Statoil
- Stable and diversified revenue base (business segments, end markets, geographies)

Corporate Overview

VIH Aviation Group of Companies Global Footprint



Corporate Overview

VIH Aviation Group of Companies Corporate Organization



Canadian Asset
Holding Company



50% JV
Australia IFR offshore
helicopter operations



A VIH Aviation Group Company

Canada IFR Offshore
Helicopter Operations



A VIH Aviation Group Company

Manufacturing, Repair
and Overhaul



A VIH Aviation Group Company

Canada and International
light, medium and heavy
helicopter VFR operations



24% JV

United States IFR Offshore
and VFR Onshore Helicopter
Operations



A VIH Aviation Group Company

FBO services, Victoria
International Airport



United States asset
holding company

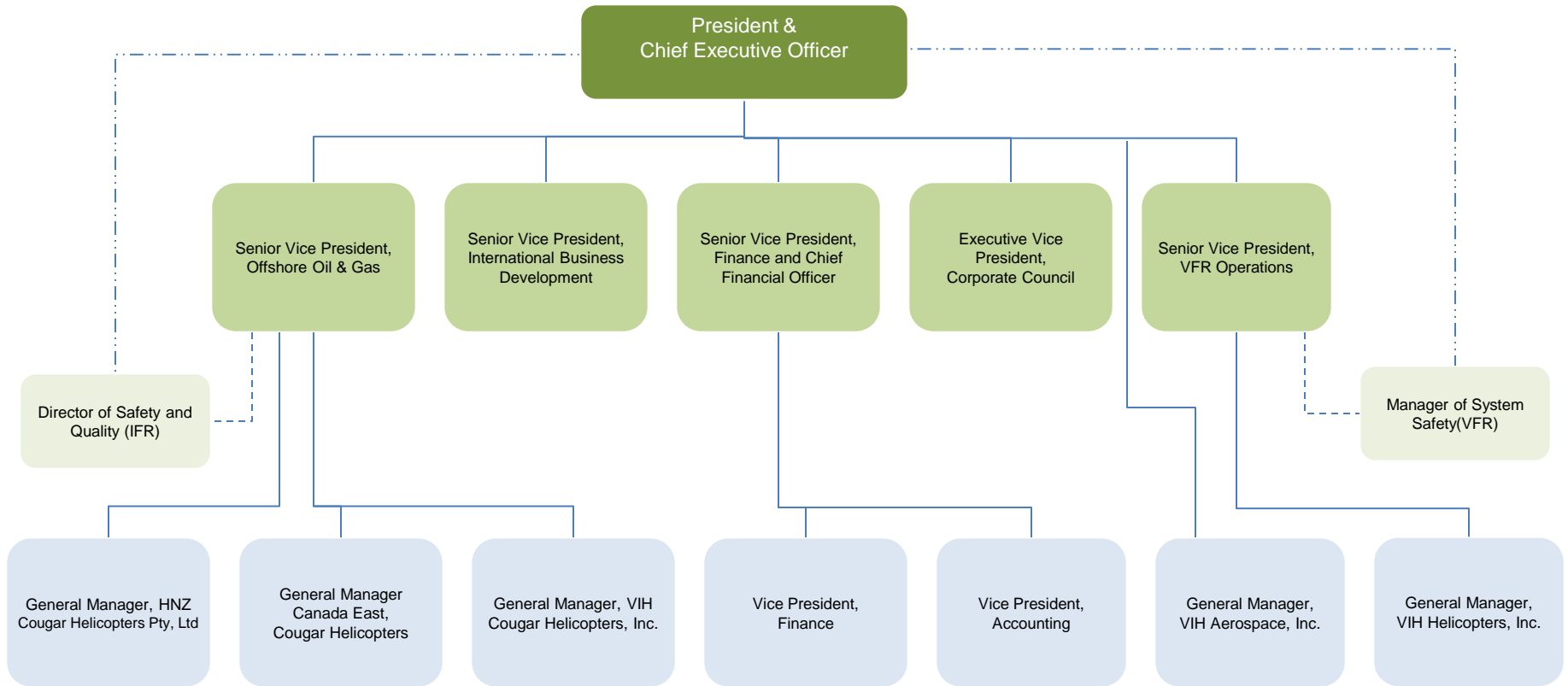


FBO services, Galliano LA



Corporate Overview

VIH Aviation Group of Companies Senior Management Team



Corporate Overview

Cougar Helicopters, Inc. Key Events

- **1984:** Company founded in Halifax Nova Scotia
- **1990:** Offshore Oil Helicopter support contract in Gijon, Spain (Conoco)
- **1990-2001 :** Offshore oil helicopter support contract (Lasmo PLC. -Later Pan Canadian and Encana.)
- **1991-1994:** First Canadian Civilian SAR contract in Yarmouth N.S.
- **1993 -1996:** EMS Operations N.S and Ont. S-76A
- **1995:** Awarded the HMDC Helicopter Support Contract. (Production)
- **1994 -2001:** Offshore Helicopter Support Thailand (Thaipo)
- **1997-Present:** Commenced Helicopters Support Operations for HMDC. (Production)
- **1998- Present:** Awarded PetroCanada Helicopter Support Contract. (Production)
- **2002-Present:** Awarded Husky Energy Helicopter Support Contract. (Production)
- **2005:** Introduction of S-92 operations in St. John's NL
- **2005-Present:** Started SAS/SAR Gulf of Mexico and Canada NWT
- **2006-Present:** Started SAR/SAS Alaska, NWT Canada
- **2007- Present:** Entered Australian offshore Oil and Gas market
- **2007-2008:** Statoil Mizzen Helicopter Support Contract
- **2009:** Introduction of S-92 Specialty Aviation Services in Gulf of Mexico
- **2009:** EnCana S-92 Helicopter Support Contract. Halifax N.S.
- **2009:** ConocoPhillips Laurentian Basin helicopter support contract.
- **2009:** BC Air Ambulance EMS operations (BH222)

Corporate Overview

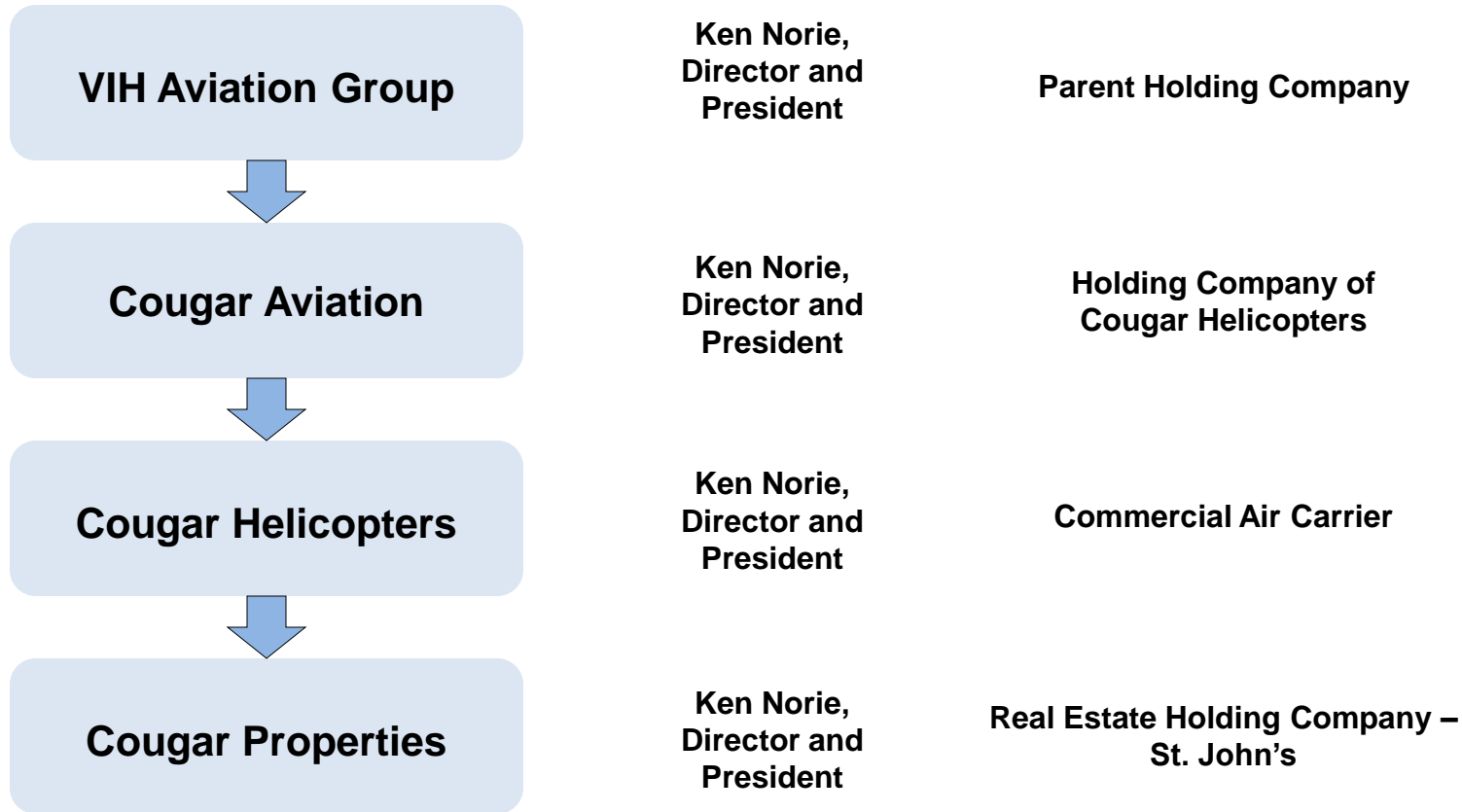
Cougar Helicopters, Inc. IFR Segment Operations

- Current fleet of 15 heavy helicopters (8 S-92s, 6 S-61s, 1 S-76)
- Provide IFR flight services primarily for the offshore oil and gas sector
 - Crew changes
 - SAR
 - Offshore aerial construction
 - Core operating regions:
 - East coast Canada
 - U.S. Gulf of Mexico
 - Arctic Rim
 - Northern Australia
- Specialty in Search and Rescue (SAR) services
 - Dedicated all-weather helicopters and crews standing-by to assist in the event of emergency
 - Emergency response (e.g. accidents or natural disasters)
 - Medical evacuations
 - Offshore development beyond service range of government providers
 - SAR services generally provided under long-term contracts with a high fixed-pay component



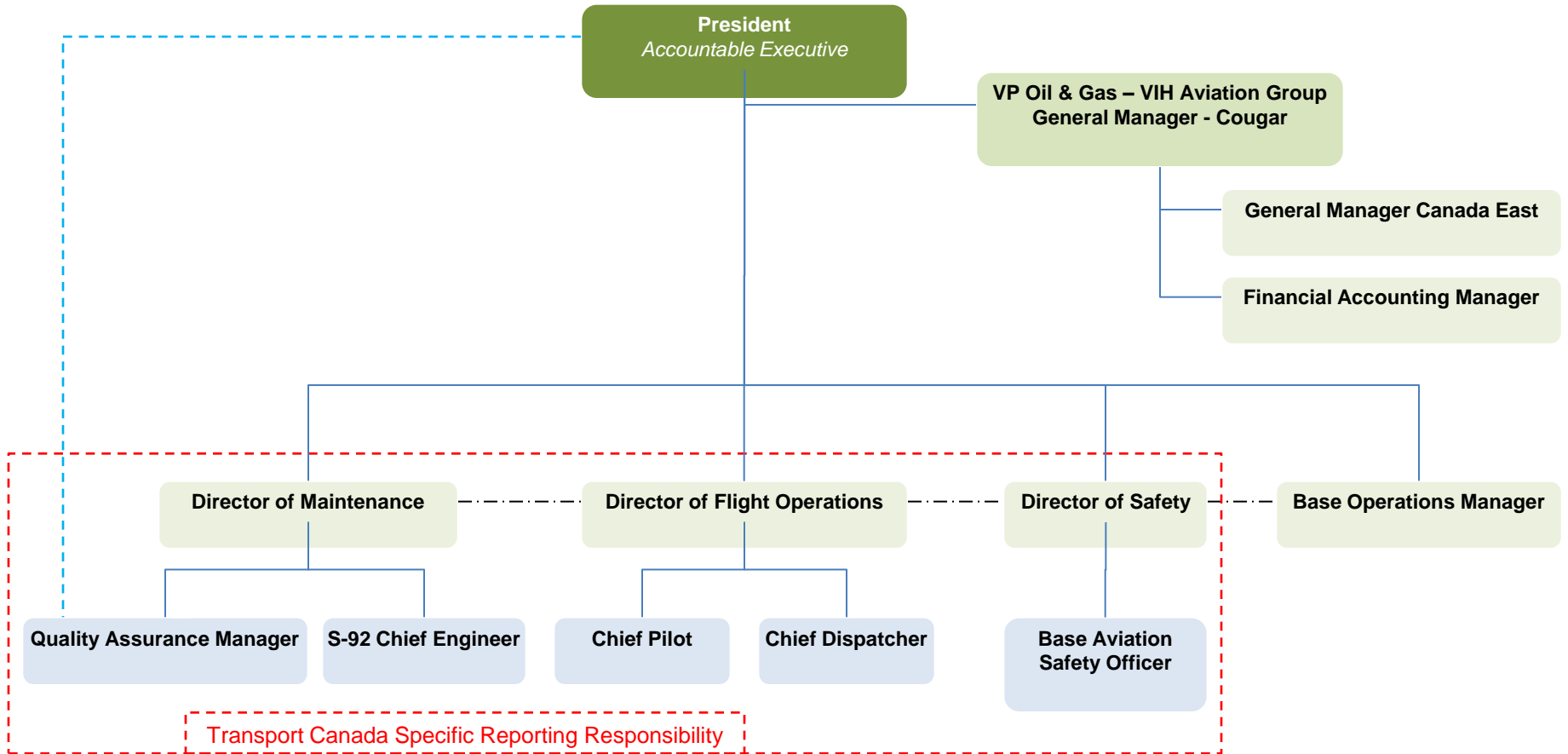
Corporate Overview

Cougar Helicopters, Inc. Corporate Structure



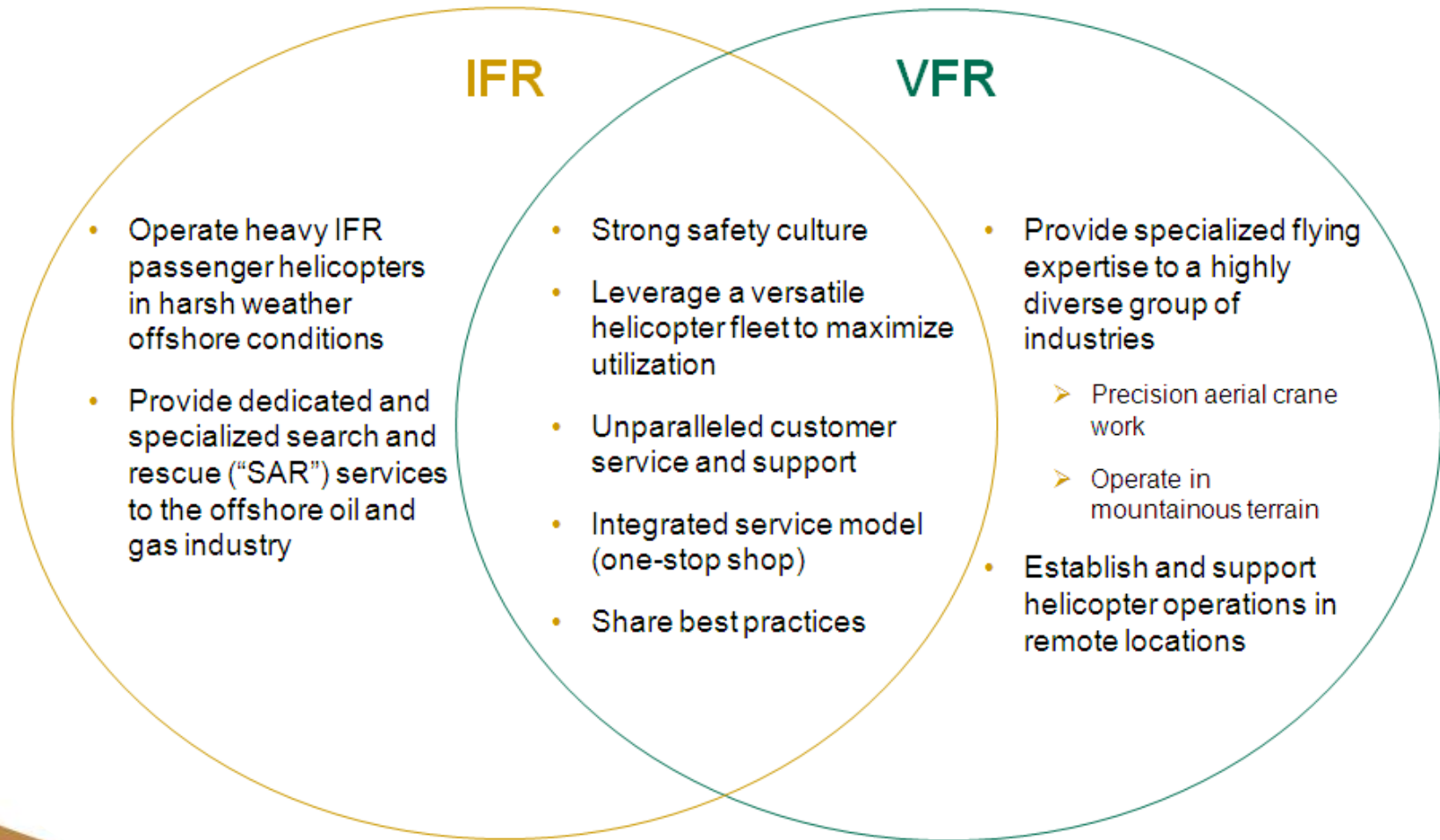
Corporate Overview

Cougar Helicopters, Inc. Organizational Chart



Corporate Overview

VIH Aviation Group Corporate Values





St. John's Base

St. John's Base Facility

- Facility constructed in 1996
- Extension completed in October 2007
- Can accommodate four large helicopters



St. John's Base

Current Fleet

S-92
C-GSCH

S-92
C-GMCH

S-92
C-GQCH

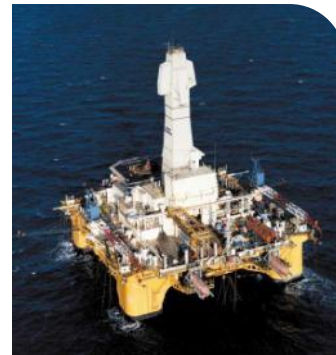
S-92
C-GDKN

S-61
C-GYCH



St. John's Base

Customer Base



St. John's Base

Customer Personnel On Board (POB)



Hibernia Platform
250 POB



Terra Nova FPSO
120 POB



GSF
125 POB

SeaRose FPSO
100 POB

Henry Goodrich
120 POB



Stena Carron
180 POB

Offshore POB - 895

St. John's Base Offshore Location Map

Exxon Mobil

- Hibernia Field
- 171 NM from St. John's

Suncor Energy

- Terra Nova Field
- 188 NM from St. John's

Husky Energy

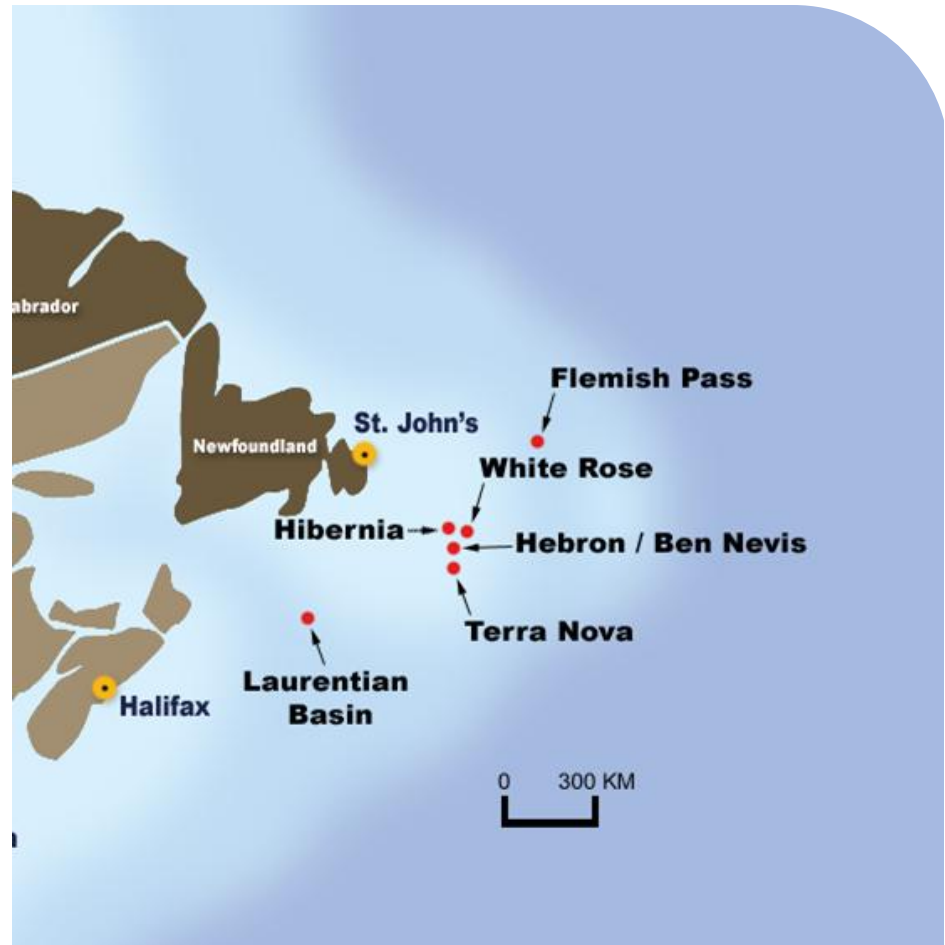
- White Rose Field
- 200 NM from St. John's

Conoco Phillips

- Laurentian Basin
- 196 NM from St. John's

Chevron Canada

- Flemish Pass
- 274 NM from St. John's
- Hebron / Ben Nevis Field
- 189 NM from St. John's



St. John's Base Departments

Maintenance

- Quality Assurance
- HUMS
- Stores

Flight Operations

- Training Department
- Dispatch
- HFDM

Operational Control Centre (OCC)

Passenger Movements

- Traffic Coordination
- POB Management
- Passenger Security

Search and Rescue (SAR)

Safety Department

- Aviation safety
- HSE
- ISO

Finance

Information Technology (IT)



St. John's Base Staffing

Pilots

- 31

Aircraft Maintenance Engineers

- 36

Stores & Technical Records

- 7

Safety Management Systems

- 3

OCC

- 16

Managers

- 13

Administration

- 10

Rescue Specialists

- 12

Passenger Movements

- 18

Information Systems

- 5

Finance

- 7



St. John's Base TOTAL – 158

Last Updated – January 31, 2010

St. John's Base

12 Year Operational Performance

Flight Hours	Passenger Transfers	Offshore Trips	Cargo Transferred (lbs)
58,722	275,330	16,309	1,551,069



Last Updated – January 2010



S-92 Selection

S-92 Selection

Fleet Transition | Super Puma to S-92 (Summer 2005 to Summer 2007)



October 20, 2006 - Departure



April 28, 2007 - Departure



June 2, 2007 - Departure



S-92 Selection

Sikorsky S-92A Features

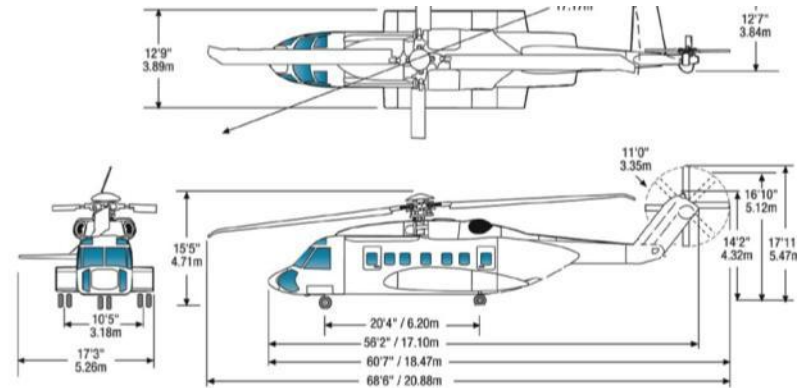


- 1 High-visibility cockpit
- 2 High-Intensity Radiated Field protection (HIRF)
- 3 Health and Usage Management System (HUMS)
- 4 Enhanced Ground Proximity Warning System (EGPWS)
- 5 Crashworthy seats for all occupants
- 6 Sponson design keeps fuel away from passengers
- 7 Suction fuel system prevents hazardous fuel spray
- 8 Energy absorbing landing gear
- 9 Built-in corrosion resistance
- 10 Bird-strike protection at maximum aircraft speed
- 11 Lightning strike protection
- 12 High energy turbine burst protection
- 13 Robust flaw-tolerant design
- 14 Proven de-icing system

S-92 Selection

Sikorsky S-92A Specifications

Aircraft Seating (Excluding Pilots)	
Offshore Configuration	19
Empty Weight / Offshore Aircraft	
Pounds	17,600
Kilograms	8,000
Maximum Gross Weight	
Pounds	26,500
Kilograms	11,861
Fuel Capacity	
Gallons (US) <i>(with Auxiliary Tanks installed)</i>	1050
Litres <i>(with Auxiliary Tanks installed)</i>	3,974
Range Maximum Fuel	
Nautical Miles	750
Kilometres	1,389
Speed (Cruise)	
Knots <i>(Typical Cruise)</i>	135
Kilometres per Hour <i>(Typical Cruise)</i>	250
Main Landing Gear	
Static Contact Pressure Per Tire	122 psi
Dynamic Contact Pressure Per Tire	130 psi
Nose Landing Gear	
Static Contact Pressure Per Tire	122 psi
Dynamic Contact Pressure Per Tire	131.3 psi





Video Presentation

Aircraft Maintenance



Aircraft Maintenance

Aircraft Maintenance

Aircraft Maintenance Engineer (AME) Qualifications

Transport Canada issues M2 AME License with anywhere from 1 year to 35 years experience.

- Graduate from a TCCA approved training institute
- Complete an apprenticeship with an AMO
- Total experience to equal 48 months prior to issuing an AME license
- Successfully complete technical TCCA exams
- Complete an aircraft specific type training course
- Complete company initial training requirements
- Issuance of Company approval (ACA)

Aircraft Maintenance

Alert Service Bulletin (ASB)

- Issued on matters requiring the immediate attention of the operator
- Limited generally to items affecting safety
- Compliance is considered essential
- Provide instructions for modifications, inspections, or other actions and establish required compliance times
- One time maintenance and inspection requirements will be carried in the text of the ASB
- Revisions to repetitive maintenance and inspection requirements, when safety related, will be issued concurrently with the ASB as temporary revisions to the Airworthiness Limitations and Inspection Requirements
- Issued by the manufacturer of the aircraft and are issued to all owners and operators of that aircraft
- Issued by way of electronic notification and followed up with a hard copy sent by surface transport or courier

Aircraft Maintenance

Airworthiness Directive (AD) (Reference CAR's 593)

- Issued by one or more Airworthiness Authorities (FAA, TCCA, EASA)
- Legally-binding requirement for work to be done on a specific aircraft, or engine, or component (type, model, or serial number/s)
- The work may involve modification, inspection, or other preventative measures, and may involve a one-of task or a task that needs to be repeated
- AD's always have a threshold expressed in Flight Hours (FH) and/or Flight Cycles (FC) and/or Calendar Time (by which time the task must have been performed)
- Issued by the authority that has issued the Type Certificate for the aircraft is mandatory for that aircraft, regardless of the country of registry. An AD issued by the country of registry of an aircraft is mandatory for all aircraft, of that type, registered in that country

Aircraft Maintenance

ASB / AD Comparison

- Both ASB's and AD's have a compliance time dictated by the issuer of the document. The action contained in the document must be carried out prior to the compliance time indicated in the document
- Once the requirements of the ASB or AD are performed, the record of the compliance is recorded in the aircraft technical logs
- The difference in a ASB and AD are:
 - AD: Legally-binding requirement for work to be done on a specific aircraft
 - ASB: Compliance with Alert Service Bulletins is considered essential

Aircraft Maintenance

ASB / AD Implementation Process

1. Review applicability of the ASB
2. Assess compliance timeline
3. Order parts if required
4. Comply with ASB as soon as possible



Video Presentation

Dispatch



Dispatch

Dispatch

Dispatcher Training

- Transport Canada exams
- Radio Operators License exam administered by Industry Canada
- Company operations training
- Company meteorology training
- Human factors and Crew Resource Management (CRM) training
- Aircraft type training operated by the company (S-92, S-61, S-76, and BH22)
- Transportation of dangerous goods
- Winter operations
- Multiple observation flights on company aircraft
- On-the-job training

Certificate issued after Transport Canada check repeated annually

Recurrent - all subjects are repeated on a 3-year rotation

Dispatch

Radio Operator / Flight Follower Training

The Radio Operator position is an entry level position for the Flight Dispatcher position, and is considered to be a Flight Dispatch Trainee.

Whenever possible, Radio Operators are scheduled to attend Flight Dispatcher training sessions for personal development.

- Restricted Radio Operators License exam
- Procedures and policies outlined in the Company Operations Manual
- Flight Dispatch Trainees work under the supervision of a licensed Flight Dispatcher as an “Assistant”
- Dangerous Goods

Dispatch

Flight Planning Criteria

- Aircraft Technical Condition
- Visibility and Ceiling
- Winds
 - Start-up
 - Shut-down
 - Wind-aloft
- Destination Condition
 - Freezing Precipitation
 - Vessel Motion
- Alternate Landing Site (land based)

Dispatch

Basic Offshore Landing Limits - All Vessels

Pitch, roll and heave limits as shown in Table 4 below are made available primarily for flight planning purposes. Should the reported values be greater prior to scheduled flight, the flight should be delayed. After commencement of a flight but prior to arrival at an offshore installation the flight crew must determine if it is safe to continue with a landing.

Table 4 – Offshore Heli Deck Pitch, Roll and Heave Safety Limits by helicopter type:

Helicopter Type		Pitch	Roll	Heave – Heave Rate
S61N / L	Day	3 ⁰	3 ⁰	7 m – 1.5 m/sec
	Night	3 ⁰	3 ⁰	4 m – 0.5 m/sec
S92 A	Day	5 ⁰	5 ⁰	7 m – 1.5 m/sec
	Night	3 ⁰	3 ⁰	4 m – 0.5 m/sec
S332L	Day	5 ⁰	5 ⁰	7 m – 1.5 m/sec
	Night	3 ⁰	3 ⁰	4 m – 0.5 m/sec
S76 A	Day	5 ⁰	5 ⁰	7 m – 1.5 m/sec
	Night	3 ⁰	3 ⁰	4 m – 0.5 m/sec

Dispatch

Special Offshore Landing Limits - For Terra Nova FPSO

Table 1 – “Terra Nova” FPSO Heli-Deck Pitch, Roll and Heave Safety Limits by helicopter type:

Helicopter Type		Heave – Heave Rate	Pitch	Roll
S76 A	Day	12 m – 1.0 m/sec	3 ⁰	3 ⁰
	Night	6 m – 0.5 m/sec	1.5 ⁰	1.5 ⁰
S61N	Day	12 m – 1.0 m/sec	3 ⁰	3 ⁰
	Night	6 m – 0.5 m/sec	1.5 ⁰	1.5 ⁰
S92 A	Day	12 m – 1.0 m/sec	3 ⁰	3 ⁰
	Night	6 m – 0.5 m/sec	1.5 ⁰	1.5 ⁰
AS332L	Day	12 m – 1.0 m/sec	3 ⁰	3 ⁰
	Night	6 m – 0.5 m/sec	1.5 ⁰	1.5 ⁰

Dispatch Blue Sky

Blue Sky Network
2010-01-30 13:40:48

Map | Trips | Reports | Messages | Assets | Pref | Admin | Help | Training | Logout

assets | events | options

Active Assets Only. (17/12)

BURIN	VESS	0°	0kt
CASTOR	VESS	359.2°	11kt
CGMCH	S92	2223'	103kt
CGTCH	S92	3960'	110kt
CGYCH	S92	464'	84kt
CHALLENGR	VESS	259.3°	0kt
CHANCELLOR	VESS	195.9°	0kt
EAGLE	VESS	169.3°	0kt
GABARUS	VESS	0.7°	3kt
HAWK	VESS	103°	11kt

CGMCH
103kt 2223'
12:46 ---
CTNF CYYT
POB: 18
ETA: 14:16
Fuel: 3:00
ETD: 12:43
881693132070
47° 10.68' N
51° 1.26' W
01/30/10 13:39
DM10162

Local
world

95%

Contains commands for working with the selected items.



Video Presentation

Flight Operations



Flight Operations

Flight Operations

Pilot Entry Qualifications

Cougar's basic requirements before “considering” a resume are:

- Airline Transport Pilot License (ATPL) or Commercial License with ATPL Written exams complete
- Group 4 Instrument Rating
- Approximately 1000 hours total time, but preferably more
- Enhanced experience:
 - Multi-crew experience
 - IFR experience
 - Offshore / military experience
 - Harsh environment

Flight Operations

Pilot Training

- Company Indoctrination
- Aircraft Systems Training
- Simulator Training
 - Aircraft Type (S-92)
 - Emergency Procedures
 - Special Approvals
 - Low Visibility approaches and take-offs
 - Rig approaches
 - GPS
 - Controlled Flight Into Terrain (CFIT) and Crew Resource Management (CRM)
 - Transport Canada Check Ride
- Area of Operations
- Winter Operations
- Other
 - Survival Training (Every 3 years)
 - Dangerous Goods, First Aid, Minimum Equipment List (MEL), etc.

Annual Recurrent Training Required and Transport Canada Check Ride



Video Presentation

Passenger Movement



Passenger Movement

Passenger Movement

Weekly Flight Schedule

On an average week Cougar transports 700-800 passengers to and from their offshore destinations.

A regular flight schedule for the week is as below:

MONDAY

CGR131 - 0700
CGR101 - 0730
CGR151 - 0800
CGR121 - 1015
CGR141 - 1130

TUESDAY

CGR231 - 0700
CGR201 - 0730
CGR281 - 0800
CGR221 - 1015
CGR241 - 1130

WEDNESDAY

CGR331 - 0700
CGR301 - 0730
CGR351 - 0800
CGR321 - 1015
CGR332 - 1130

THURSDAY

CGR431 - 0700
CGR401 - 0730
CGR481 - 0800
CGR421 - 1015
CGR441 - 1130

FRIDAY

CGR531 - 0700
CGR501 - 0730
CGR551 - 0800
CGR521 - 1015
CGR581 - 1130

Saturday

CGR601 - 0730

Passenger Movement Helicopter Pooling Agreement

Pooling Charter provides an understanding of the principles of aircraft pooling and provide guidance to Cougar Logistics (Traffic office and Dispatch) on flight allocation during “catch-up”, weather hold days and aircraft serviceability issues.

- Husky, Suncor Energy and HMDC have entered into long term agreements with Cougar Helicopters for the provision of helicopter services
- Each Operator has an assigned Airframe within their commercial contracts that are equipped similarly. Note that SCH is not equipped with Air Conditioning
- Husky, Suncor Energy and HMDC have chosen to adopt a pooling arrangement to ensure continuation of service to all Installations in the event of airframe unavailability, to allow for efficient aircraft maintenance, and maximize payload utilization (flight share)
- Pooling principles are agreed to and understood by each Operator and functionally implemented by Cougar Helicopters

Passenger Movement

Pooling Principles

Flight Priority Sequence

1. Emergency flights have priority over all flights and is the only flight authorized to use the official on-call crew and airframe
2. Crew Change Flights will have priority over any adhoc flight
3. Technical Priority-Adhoc flights have priority over any other adhoc flight
4. Adhoc Flights will be dispatched in order of time/date requested through the Traffic Office

Passenger Movement

Passenger Information System

- **Daily Schedule**

- Issued every evening. Outlines flight departure times and pertinent flight information

- **Morning Operations Call**

- Conducted at 0730 - 7 days a week
- Dispatcher and Passenger movement's representatives brief logistics on topics including weather, aircraft and crew issues
- Serves as a daily update and planning session

- **FIDS (Flight Information Display System)**

- Updated as flight status changes. Updated by Dispatch with real time information
- Available in the heliport in several locations and online at www.cougar.ca

- **Flight information line**

- The purpose of the flight information line is to communicate departure times to passengers to ensure on time arrival at the heliport
- This line is not updated for the purpose of family information
- FIDS will provide this information
- The line is updated only as new information becomes available

Passenger Movement

Passenger Information System

- **Logistics email**
 - Constant and consistent communication detailing aircraft serviceability, weather and delays
 - The expectation is that logistics will communicate this information to offshore personnel as required
- **Passenger briefing verbal**
 - On site briefing, sharing all known information related to flight delays or cancellations
 - Briefing by Base Operations Manager or delegate to passengers regarding any flight interruption resulting in an in-flight turnaround
 - Passenger briefing given to passengers affected by mechanical delays
- **Cougar Website**
 - Passenger resources
 - Detailing information about Cougar
 - Prior to departure
 - Security
 - Baggage and Cargo information (restrictions)
 - Preflight information
 - Flight departure information
 - What to expect during flight

Passenger Movement Suit Fitting Process

November 2007 E-452 Implementation

- Helly Hansen provided suit fittings for passengers traveling offshore, pre-flight briefing overview of the E-452 suit system and answering questions from passengers
- Cougar immersion suit issuance training was received for the November 2007 implementation of the E-452
 - On-the-job training of suit handling
 - Database system management for suit tracking
 - PLB pre flight checks
 - An overview of suit issuance and general sizing of suit systems (used visual estimates of height and weight and hood donning ability)
- Helly Hansen was on site for 6 weeks from startup from November 1, 2007 to December 12, 2007

Passenger Movement

Suit Fitting Process

- November 2007 - E-452 suit procedure as requested by the operators
 - Visual sizing
 - Suit issuance
 - Passengers don suit
 - Passengers don suit and fully zip from the seated position

- May 2009 – Suit fit evaluation process enhanced as requested by the operators
 - All passengers evaluated for suit size and fit by Helly Hansen personnel

- September 2009 - Cougar immersion suit issuers have received training certifying them as Helly Hansen immersion suit technicians with additional training to conduct suit fit evaluations
 - Passengers don suit
 - Passengers don suit and fully zip from the seated position



Video Presentation

Preflight Safety Video

Passenger Movement

Helicopter Return Notification Protocol

In the event of a flight interruption the communication flow is as listed below:

- Passengers are notified by the flight crew via the onboard Public Address System
- Dispatch advises the Traffic Office and Base Operations Manager
- Base Operations Manager or his delegate contact the operator logistics by phone
- On return to St. John's the passengers are briefed by the Base Operations Manager or his delegate
- Base Operations Manager or his delegate will provide a brief summary to the operators via email
- A customer notification form will be completed and submitted to the logistics representatives within 24 hours
 - Base
 - Date
 - Nature of event
 - Flight Crew Dialogue
 - Maintenance actions
 - Passenger/Logistics comments
 - Aircraft and flight time detail
 - Operations summary
- The information will be entered into the Safety Management System if required



Video Presentation

First Response (Search and Rescue – SAR)



First Response Search and Rescue (SAR)

First Response / SAR

Personnel and Training

- 12 Full-time Rescue Specialists
 - Rescueman
 - Hoist Operator
 - Some crew are dual-qualified as both
- 70% are former Military SAR personnel
- Prior to being released to operational duties all SAR crew regardless of previous experience and training must complete company mandated ground and flight training
- Base allotment of 40 hours per month for SAR flight training consisting of:
 - Search Patterns
 - Land based Training
 - Over water Training
 - Vessel Training
 - Night Training

Recurrent training required for all items mandated by Cougar Helicopters

Exceeds Transport Canada standards

First Response / SAR

SAR Equipment

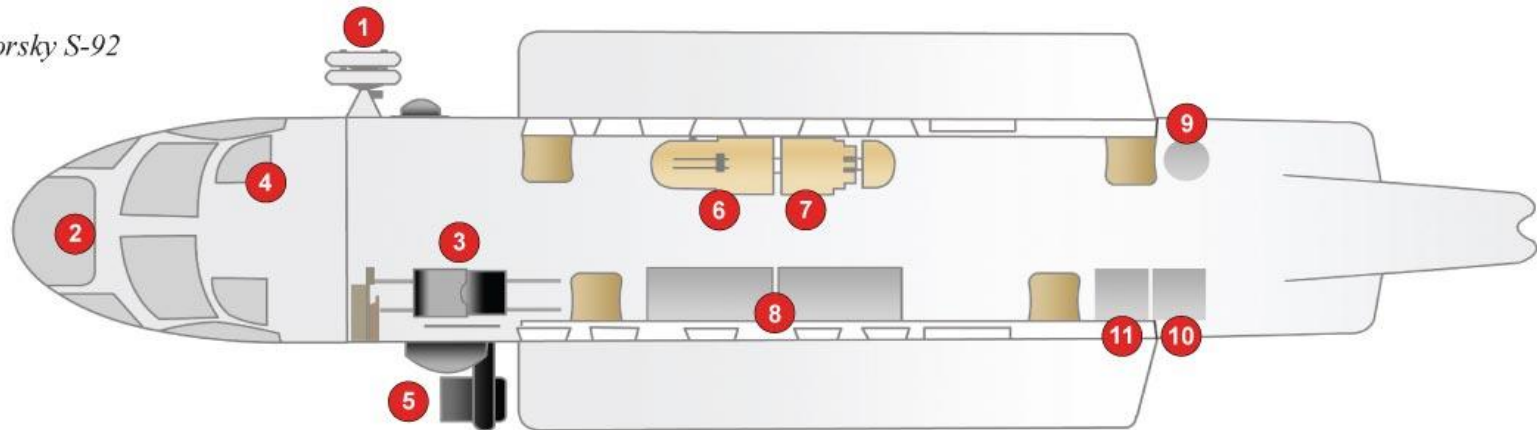
Stokes Litter (lifting bridle)	25 kg	Medical Kit (YYT, Primary)	11 kg
Rescue Basket	18 kg	Medical Kit (YYT, Secondary)	9 kg
Basket Stretcher (Ferno)	20 kg	Medical Kit (YYT, Accessory)	18 kg
Marine Salvage Pump	51 kg	Airway Mgmt Kit (YYT)	8 kg
SKAD (One raft, one bundle)	42 kg	Lifepak 1000, AED (YYT)	7 kg
Guide Line	6 kg	Oxygen Cylinder (E, size 5)	6 kg (steel) 5 kg (alum)
Rescue Strop (horse collar)	2 kg	Oxygen Cylinder (D, size 3)	4 kg (steel) 3 kg (alum)
SAR Harness (complete)	5 kg	Immobilization Kit (YYT)	13 kg
Axel Cut (manual cable cutter)	1 kg	Lit-O-Splint	3 kg
Cable Splice Plate & Hook	1 kg	Tie down / Comms Bag (YYT)	5 kg
One Man Life Raft	5 kg	Rescue Specialist (personal kit)	20 kg
Emergency Recovery System	7 kg	Night Sun searchlight	
Casualty Bag	6 kg	Night Vision Goggles (NVG)	
Thermal Recovery Capsule	6 kg	Rescue Hoist	
		Dual rescue hoist	
		Stacking Litter System	
		Ferno air ambulance litter	

Required in contract

First Response / SAR

Sikorsky S-92 Medevac / SAR Configuration

Sikorsky S-92



SAR Equipment

- 1 Goodrich Dual Rescue Hoist
- 2 Forward Looking Infrared (FLIR)
- 3 FLIR Station
- 4 Wireless Intercom System
- 5 Nitesun Search Light
- 6 Stokes Litter
- 7 Multi-level Stacker Stretcher System
- 8 Auxiliary Fuel Tank
- 9 Marine Salvage Pumps
- 10 Collapsible Rescue Basket
- 11 Other equipment includes:
 - » Rescue Slings
 - » Guidelines
 - » Survival Kit Air Dropable (SKAD)
 - » Night Vision Goggles (NVG)
 - » Advanced Medical Kits



Video Presentation

Safety Management System



Safety Management System

No Compromise...

“No operation or business opportunity, either new or ongoing, should ever compromise safety or unduly affect our accepted levels of risk of the VIH Aviation Group of Companies”

Ken Norie (President and CEO)

Safety Management System (SMS)

Safety Culture

- Safety Culture is the way safety is perceived, valued and prioritized in an organization by its employees. It reflects the real commitment to safety at all levels in the organization. It is also seen as “how an organization behaves when no one is watching”
- The Safety Culture of an organization is the product of individual and group values, attitudes, perceptions, competencies and patterns of behavior that determine the commitment to and the style and proficiency of, an organization’s health and safety management
- Cougar Helicopters maintains an exemplary safety culture. Since the early 1990’s Cougar has effectively created and instilled a concept that all team members are a vital component of the operation and are encouraged and responsible to commit to the company safety standard set forth by management and the aviation industry as a whole. Quite frankly, our safety culture is the very heart of our organization

Safety Management System (SMS)

Safety Culture

The Company Integrated Safety Management System acts as the guidance for all employees. Their active involvement is key in defining safety through structured policies and procedures, employee priorities, responsibilities and accountability at all levels of the organization, communication, meetings, safety goals and achievements. The system remains a live program ensuring change is evaluated and managed on a daily basis. Visible statements of principle convey the desired cultural attributes and clarify the vision of the organization.

A Safety Committee is in place to include representation from all levels of employees in various departments. This structure ensures concerns are dealt with and ideas are fostered in an open non-biased group of members.

Senior management and employee buy-in is critical from a top-down approach and is evident and from the various surveys administered on a semi-annual basis. Company Safety Policies ensure that understanding of the Non-Punitive Reporting system is well versed to all employees. Timely and effective feedback of information, investigation involvement and recognition of awareness and active SMS involvement solidifies the culture within Cougar Helicopters operations globally.

Safety Management System (SMS)

Risk Assessment Matrix (RAM)

COUGAR - SMS RISK ASSESSMENT MATRIX

POTENTIAL CONSEQUENCE OF OCCURRENCE					INCREASING LIKELIHOOD >				
	PEOPLE	ASSETS	ENV'MENT	REPUTATION	A Improbable	B Known within Industry	C Happened before in Company	D Reported > 3X / YR in Comp	E Reported >3X / YR in Location
0	No Injury	Zero Damage	Zero Effect	No Impact	0	0	0	0	0
1	First Aid Injury	Slight Damage	Slight Effect Not Reportable to External Agency	Slight Impact Specific Party	1	2	3	4	5
2	Medical Treatment Injury	Component Level Replace/ Repair	Minor Effect Reportable Cleanup Required	Limited Impact Localized to Area of Occurrence	2	4	6	8	10
3	Lost Time Injury (< 7 days)	Unit Level Damage Involving Multiple Major Components	Localized Effect External Agencies Involved On Site	Provincial Impact Multiple Customer Groups	3	6	9	12	15
4	Long Term Disability Single Fatality	Major Damage Repairable	Major Effect	National Impact	4	8	12	16	20
5	Multiple Fatalities	Extensive Damage Complete Loss	Massive Effect	International Impact	5	10	15	20	25

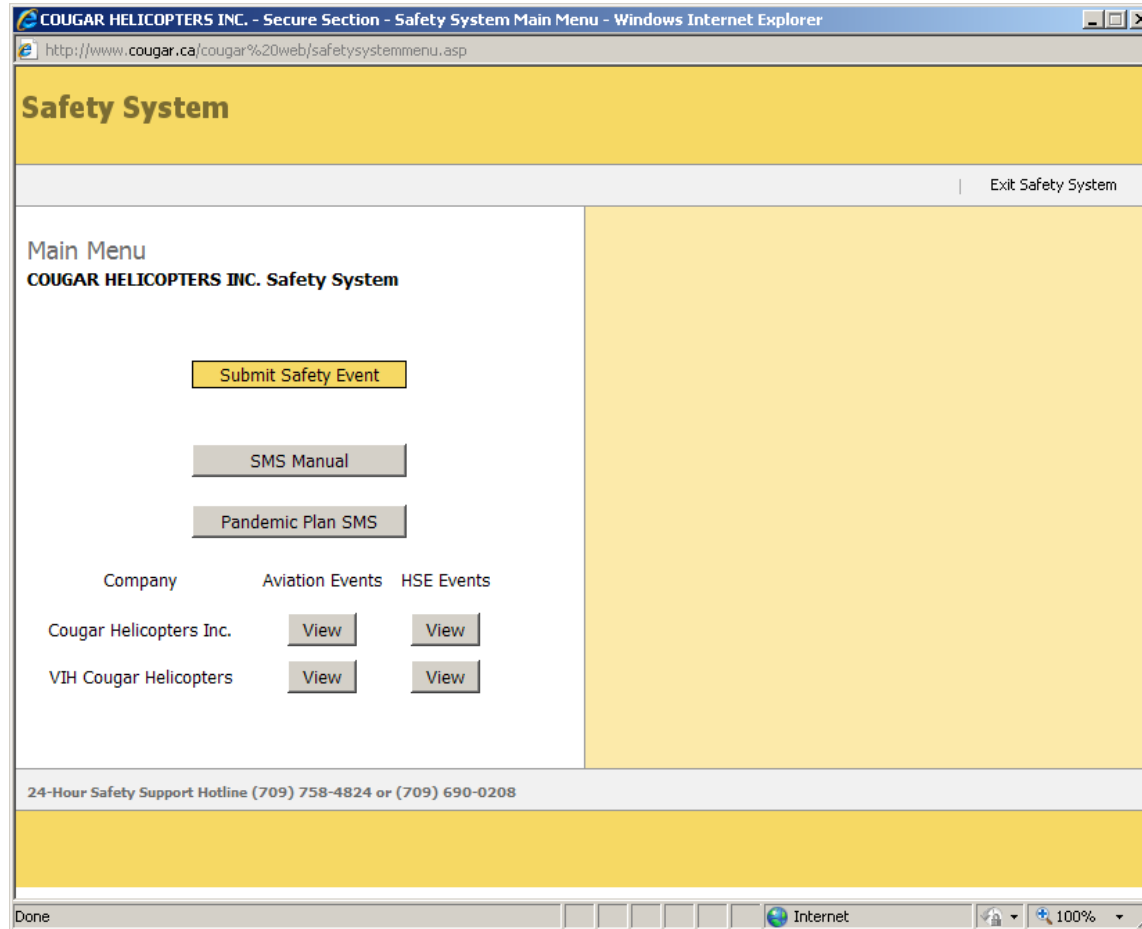
Safety Management System (SMS)

Level of Risk

LEVEL OF RISK	ACTION REQUIRED
Low	Monitor and Manage through normal Safety Procedures.
Moderate	Monitor and maintain strict control measures, Review and introduce additional controls to ensure levels of risk are ALARP.
Unacceptable	Activities must be curtailed, Implement further control measures and reassess. If Risk cannot be reduced to an acceptable level, activity must not proceed.

Safety Management System (SMS)

Safety Reporting System



Safety Management System (SMS)


Threat Levels

The screenshot shows a web browser window titled "Cougar Helicopters Inc. - Secure Section - Safety System Main Menu - Windows Internet Explorer". The page header is "HSE SYSTEM" with navigation links for "Back" and "Back To Main Menu". The main content area is titled "Event Initiation - Step 4" and "Assign Threat Level". It contains a paragraph: "The safety event was submitted with a threat Level of SEVERE. To keep the same threat level, click on the appropriate threat level below. Otherwise, select a new Threat Level." Below this are four options, each with a colored button and a corresponding yellow box:

SEVERE	Threat must be handled within 2 days.
HIGH	Threat must be handled within 4 days.
ELEVATED	Threat must be handled within 10 days.
GUARDED	Threat must be handled within 15 days.

Safety Management System (SMS)

Hazard Event Behaviour Based Observation (HEBBO)


A VIH Aviation Group Company


Hazard Event Behaviour Based Observation
 (H.E.B.B.O.)

Name: (Optional) _____

Date: _____

Immediate Supervisor: _____

Observation:




Location: _____

Causes:

Immediate Action Taken:

See Reverse Side



A VIH Aviation Group Company

Hazard Event Behaviour Based Observation
 (H.E.B.B.O.)

Hazard
 Incident
 Behavior

Brief Description

Work Environment Risk:
 High
 Medium
 Low

Brief Description


Procedures Risk:
 High
 Medium
 Low

Brief Description

Tools & Equipment Risk:
 High
 Medium
 Low

Brief Description

Please Place in Bins Provided

Safety Management System (SMS)

Audit Schedule – 2009 Internal

2009 Quality Assurance Audits	Date	Person(s) Responsible	Status
YYT Hangar Audit	Jan 09	Quality Assurance Manager	Complete
Aircraft Audit SCH	Jan 09	Quality Assurance Manager	Complete
Logbook Audit ZCH	Mar 09	Quality Assurance Manager	Complete
Aircraft Audit YCH	Mar 09	Quality Assurance Manager	Complete
Aircraft Audit VCH	Mar 09	Quality Assurance Manager	Complete
Post Mod Audit VCH	Mar 09	Quality Assurance Manager	Complete
Aircraft Audit HCH	Apr 09	Quality Assurance Manager	Complete
Post Mod Audit QCH	Apr 09	Quality Assurance Manager	Complete
Aircraft Audit MCH	Apr 09	Quality Assurance Manager	Complete
Post Mod Audit MCH	Apr 09	Quality Assurance Manager	Complete
Post Mod Audit TCH	Apr 09	Quality Assurance Manager	Complete
Post Mod Audit SCH	May 09	Quality Assurance Manager	Complete
Aircraft Audit TCH	Jun 09	Quality Assurance Manager	Complete
Aircraft Audit NCH	Jun 09	Quality Assurance Manager	Complete
Galliano Audit	Jun 09	Quality Assurance Manager	Complete
Tech Records Audit	Sep 09	Quality Assurance Manager	Complete

*DSMS-Director of Safety Management System, CP-Chief Pilot, DFO-Director of Flight Operations, DOM-Director of Maintenance, DSQ-Director of Safety & Quality
Updated –December 9, 2009*

Safety Management System (SMS)

Audit Schedule – 2009 Internal

2009 Quality Assurance Audits	Date	Person(s) Responsible	Status
Halifax Audit	Sep 09	Quality Assurance Manager	Complete
Fuel Venders Audit YYT	Oct 09	Quality Assurance Manager	Complete
Aircraft Audit GIHS	Oct 09	Quality Assurance Manager	Complete
Post Mod Audit DKN	Oct 09	Quality Assurance Manager	Complete
Stores Audit YYT	Oct 09	Quality Assurance Manager	Complete
Aircraft Audit TIG	Oct 09	Quality Assurance Manager	Complete
Aircraft Audit QCH	Nov 09	Quality Assurance Manager	Complete
Aircraft Audit YCH	Dec 09	Quality Assurance Manager	Complete

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Updated –December 9, 2009*

Safety Management System (SMS)

Audit Schedule – 2009 Internal

2009 Audits	Date	Person(s) Responsible	Status
YHZ Pre-Start up Audit	Apr 09	DSMS	Complete
YYT Safety Audit	May 09	DSMS	Complete
YHZ Start-up Audit	Jun 09	DSMS	Complete
BAR Start-up Audit	Aug 09	DSMS	Complete
TUK Start-up Audit	Aug 09	DSMS	Complete
YYT Internal ISO Audit	Sep 09	DSMS, CP,DFO,DOM	Complete
YPR Switchover (SMS)	Sep 09	DSMS	Complete
GAO Internal SMS	Oct 09	DSMS	Complete

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Updated –December 9, 2009*

Safety Management System (SMS)

Audit Schedule – 2009 External

2009 Audits	Date	Person(s) Responsible	Status
Husky, Conrail Aviation	Jan 09	DSMS, CP,DFO,DOM	Complete
Marsh Consulting Assessment	Feb-Mar 09	DSMS, CP,DFO,DOM	Complete
Transport Canada Audit	Mar 09	DSMS, CP,DFO,DOM	Complete
Exxon/Husky/Petro Canada	Mar-Apr 09	DSMS, CP,DFO,DOM	Complete
Encana Energy Audit	Jul 09	DSMS, CP,DFO,DOM	Complete
Shell Aviation (SAI) Audit	Aug 09	DSMS, CP,DFO,DOM	Complete
BP Audit	Aug 09	DSMS, CP,DFO,DOM	Complete
Transport AOSH Audit	Aug 09	DSMS, CP,DFO,DOM	Complete
External ISO Quality, QMI	Oct 09	DSMS, CP, DFO, DOM	Complete
Husky/EM/Suncor HSEQ Audit	Oct 09	DSMS	Complete
ExxonMobil Aviation Audit	Oct 09	DSMS, CP, DFO, DOM	Complete
EnCana YHZ Audit	Oct 09	DSMS, CP, DFO, DOM	Complete
Husky YYT Audit	Nov 09	DSMS, CP, DFO, DOM	Complete
NL Compensation Audit	Dec 09	DSMS, CP, DFO, DOM	Complete
Woodside Energy Audit	Dec 09	DSMS, CP, DFO, DOM	Complete

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 Updated –December 9, 2009

Safety Management System (SMS)

Audit Schedule – 2009 External

2009 Quality Assurance Audits	Date	Person(s) Responsible	Status
External Aerospace Audit	Dec 09	Quality Assurance Manager	Complete
External Audit Rotormax	Dec 09	Quality Assurance Manager	Complete

*DSMS-Director of Safety Management System, CP-Chief Pilot, DFO-Director of Flight Operations, DOM-Director of Maintenance, DSQ-Director of Safety & Quality
Updated –December 9, 2009*

Safety Management System (SMS)

Company Drug and Alcohol Policy - Safety Sensitive Positions

- Pilots
- Aircraft Maintenance Engineers (AME)
- Rescue Specialists
- Dispatch
- Flight Following
- Ramp Staff / Security Agents
- Traffic Staff
- Helicopter Flight Data Monitoring (HFDM)

One member is electronically selected by Atlantic Offshore Medical Services Limited (AOMS) per visit (12 annually).

Return to Flight Changes

Changes to Cougar operations post March 12

- Updated emergency procedures and checklists
- Revised descent profile for emergencies and flying at a lower altitude
- Pilots were trained in changes to the procedures and descent profile
- Change to the location of the helicopter auxiliary fuel tank (requested by operators)



HOTF Recommendation # 4

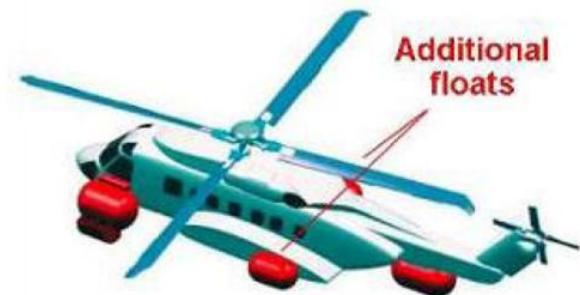
4. Consider, in consultation with Cougar Helicopters, the installation of additional floatation on the S-92A fleet to sea state 6 capability.

- Design sea state specification does not guarantee helicopter will remain upright in those conditions
- However, additional floats should provide more stability on the sea surface
- All floatation deploys automatically if armed or otherwise manually
- Ordered additional floatation for all three S-92As in May 2009
- Floatation available for installation mid-year 2010
- Installation estimated to take 10 days per aircraft

Current Floatation Equipment



2010 Addition



HOTF Recommendation # 11

11. Re-evaluate the current SAR arrangement the Operators have with Cougar, recognizing that the last formal assessment was done in 1997. Consideration should be given to response time and night flights.

Additional emergency response enhancements:

- Increased number of Rescue Specialists in back of aircraft from 2 to 3
- Pilot SAR training limited to a core group, increased training from 10 hours per month to 40 hours per month; required adding more pilots to pool
- Plan and schedule night hoist training to offshore installations (pending)
- Obtain auto-hover certification and install on aircraft; 20 additional hours of training per month for pilots (pending 2010)

HOTF Recommendation # 17

17. Review use, type, and location of goggles in the helicopter as well as the potential effects the goggle strap may have on the suit hood air vent.

Cougar has recently implemented a new practice for goggles:

- No longer stored under each seat
- Goggles are located in a seat pocket, if available
- Otherwise, goggles are secured by being looped through the seat belt
- Cougar / Helicopter Landing Officer ensures goggles are secured





Conclusion