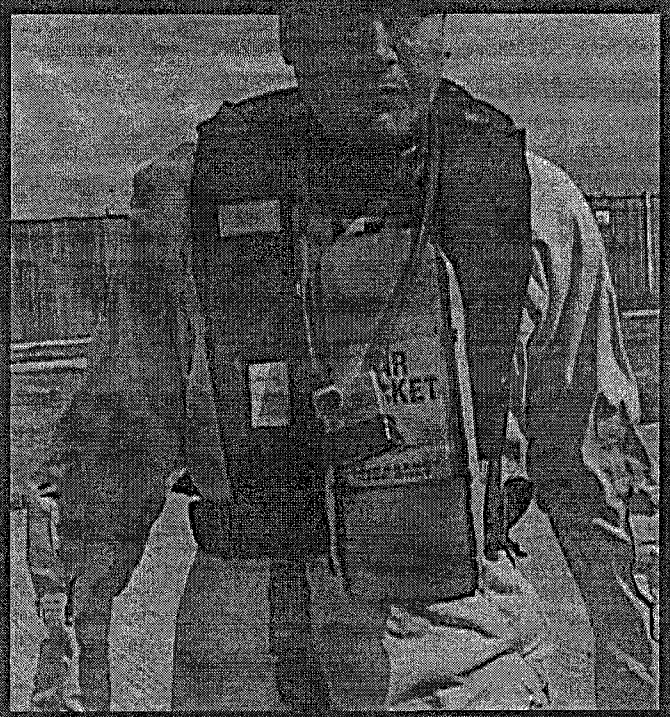
Air Pocket Plus

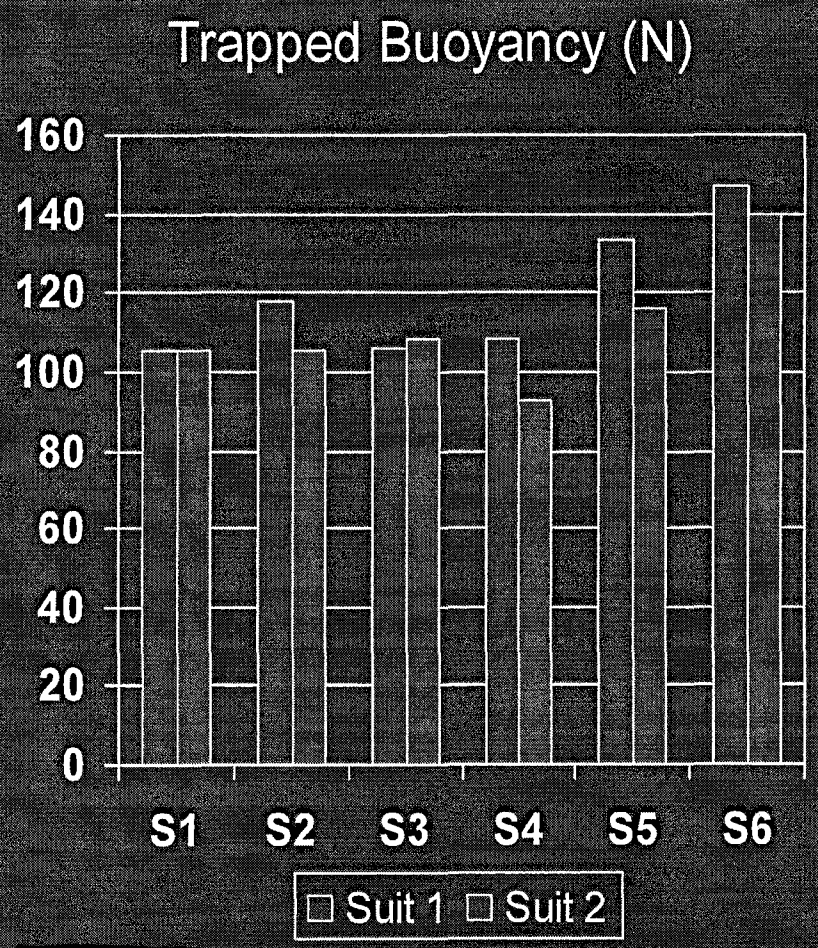


SHARK LAP system worn over 93204 suit

Effects of EBS on buoyancy

- Compressed air systems – minimal effect on buoyancy (single lung-full of air).
- Rebreathers – minimal effect on buoyancy (single lung-full of air).
- Hybrid rebreather/compressed air system – added buoyancy (additional lung-full of air).

Buoyancy of helicopter dry suits and liners



- Suit vented of air;
- Inflatable liner garment in un-inflated condition;
- Air Pocket Plus not deployed.

150N = 15kg force

Helicopter escape test – Suit 1

	No use of rebreather	Using APP re-breather
S1	METS raised on 1st attempt due to subject swallowing water. 2nd attempt successful	No problems.
S2	"*Bulk caught a bit*". Successful escape without problems.	Unable to use re-breather nose-clip as wire wound around hose. No problem with escape.
S3	No problems.	No problems.
S4	No problems.	No problems.
S5	No problems.	No problems.
S6	No problems.	Subject reported some buoyancy problems within METS. No problem making successful escape.

Helicopter escape test – Suit 2

	No use of rebreather	Using APP re-breather
S1	No problems.	No problems.
S2	No problems.	No problems.
S3	No problems.	No problems.
S4	No problems.	No problems.
S5	No problems.	No problems.
S6	No problems.	No problems.