

sea
skimming
target

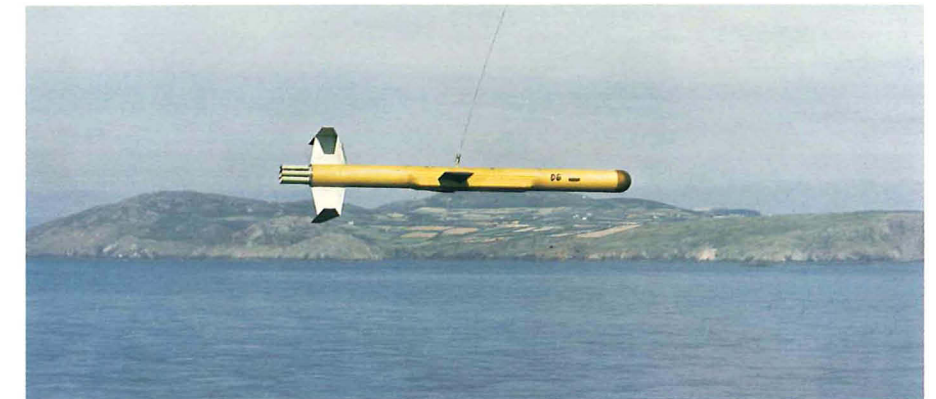
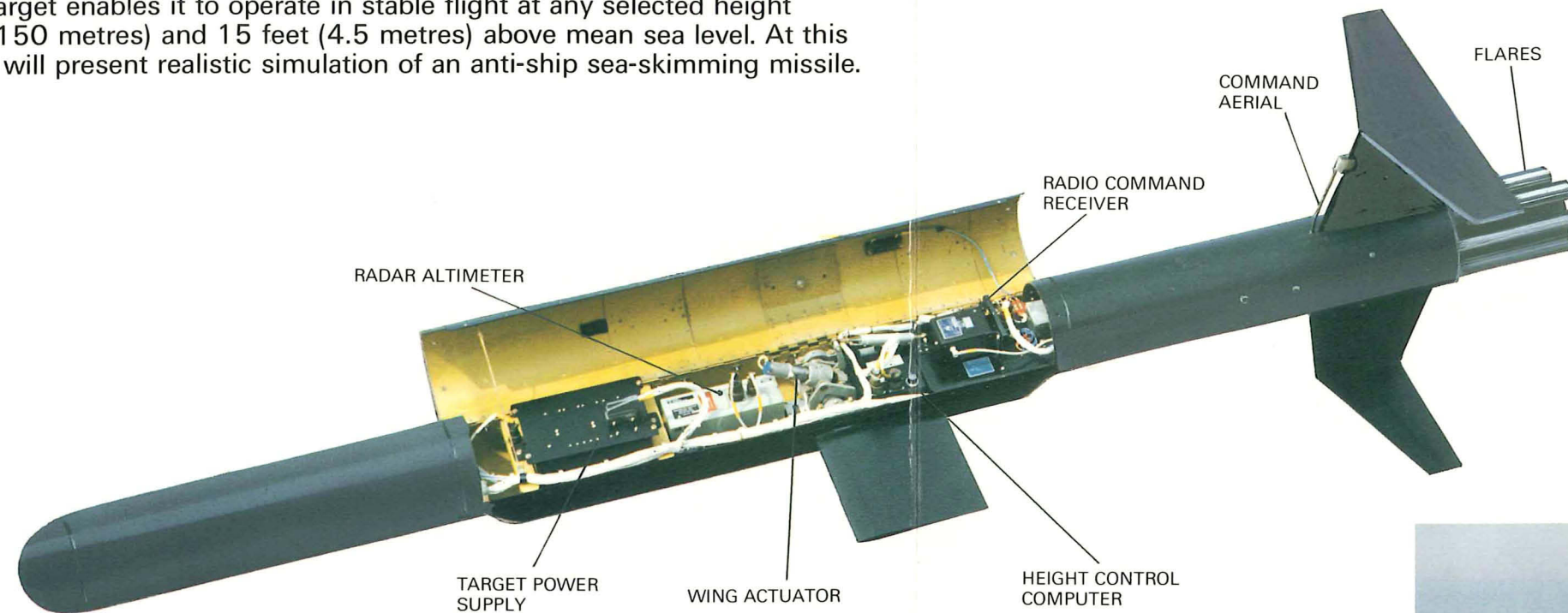


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FLIGHT
REFUELLING
LIMITED

Sea Skimming Target

Recent events have proved that the greatest threat facing today's naval vessels is the Sea-skimming Missile. It is vital that all ships and their crews likely to be faced with this threat are fully trained in detecting and destroying these weapons. Such training must be as realistic as possible yet be achieved with minimum cost and maximum safety. These conflicting requirements are now satisfied by using Flight Refuelling's Height Keeper Target. The design of this target enables it to operate in stable flight at any selected height between 500 feet (150 metres) and 15 feet (4.5 metres) above mean sea level. At this minimum altitude it will present realistic simulation of an anti-ship sea-skimming missile.



THE SEA SKIMMING TARGET OFFERS THE FOLLOWING MAJOR BENEFITS

- **REALISTIC COST-EFFECTIVE TRAINING.** Uniquely, the SST offers very realistic simulation of a sea-skimming missile at a fraction of the cost of self-powered targets or real missiles.
- **HIGH SPEED.** Speeds up to 400 knots are possible depending on the towing aircraft. While some sea-

skimming missiles do fly faster, it is found that speeds up to 400 knots offer the best compromise between realism and cost, for training purposes.

- **VARIABLE LOW ALTITUDES.** Required sea-skimming altitudes can be preset between 500 feet (150 metres) and 17 feet (5 metres)

above Mean Sea Level, and maintained within ± 3 feet (1 metre).

- **ADAPTABLE SIMULATION.** Choice of onboard equipment allows operator to simulate closely the particular sea-skimming missile against which he wishes to train.
- **CHOICE OF ENHANCEMENTS.** The radar, visual and

infrared signatures of the SST can all be enhanced.

- **SAFE OPERATION.** Very long tow length (up to 30,000 feet, 8.75 kms) ensures safe separation between towing aircraft and SST. Pull-up initiated by towing aircraft ensures target will overfly vessel under training.

- **REUSABLE.** If SST is not destroyed, it can be recovered by the towing aircraft and reused many times.
- **LOW MAINTENANCE COSTS.** Rugged modular construction; easy access to components; simple test sets.
- **SCORING SYSTEM.** A Miss Distance Indicator can be fitted to enable assessment of firing accuracy.

sea skimming target

SPECIFICATION

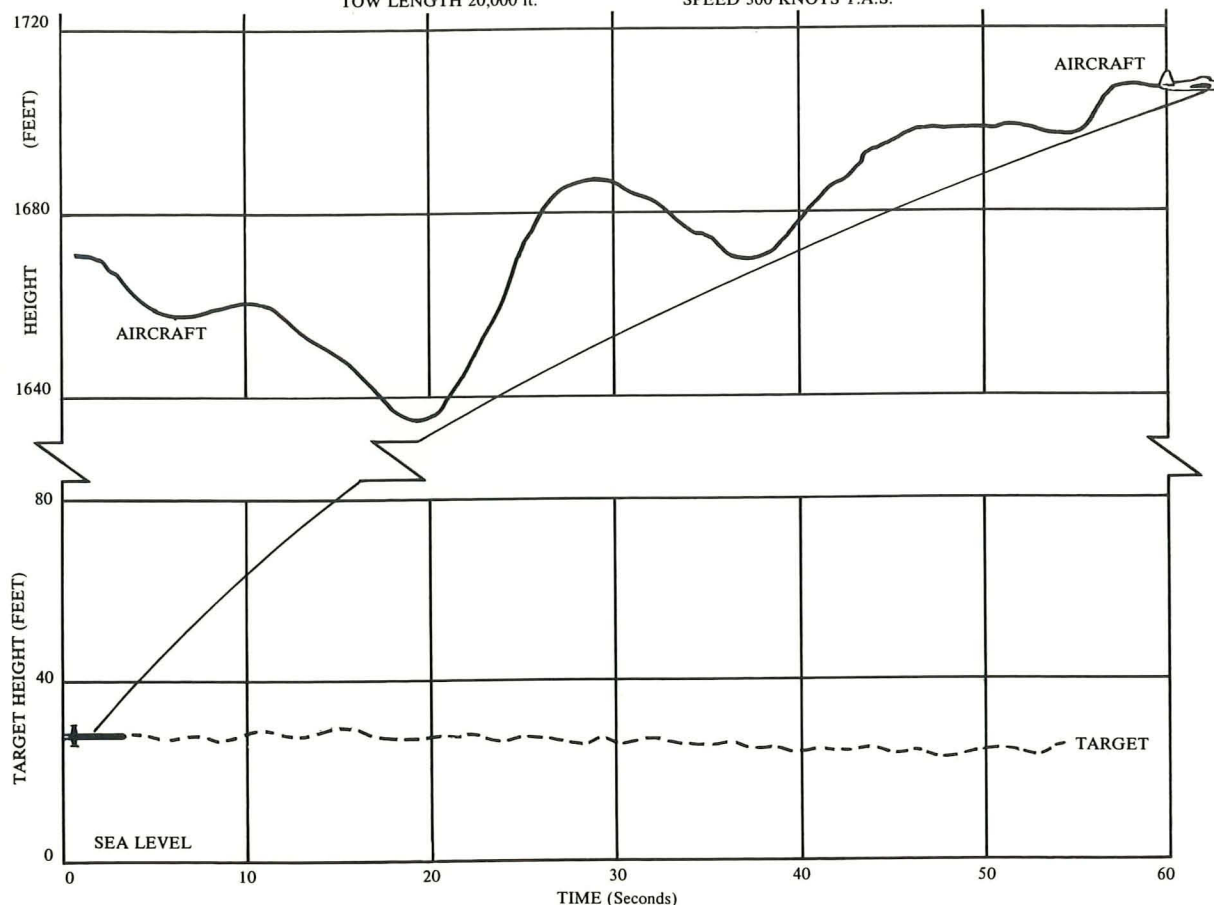
Weight (maximum)	54.4kg (120 lb)
Overall length (including nose and flares)	3083 mm (122 ins)
Overall height	702.5 mm (27.7 ins)
Body tube diameter	190 mm (7.5 ins)
Wing span	724 mm (28.5 ins)
Tailplane span	610 mm (24 ins)
Permissible c.g. range	±96 mm (±4 ins) from tow lug

Tow length:
From 3.5 kms (12,000 feet) to 8.75 kms
(30,000 feet) depending on winch, tow
aircraft, tow speed and operational
requirement.

Height keeping:
Set before flight between 5m (17 feet) and
150m (500 feet). Accuracy ± 1m (3 feet).
Height and speed accuracy requirements of
tow aircraft (typical): ± 1½% (speed)
± 30 m (100 feet) height

Command system:
UHF two-tone commands from tow aircraft
for height control command, equipment
command, and M.D.I. command.

FLIGHT REFUELLING LTD. LOW LEVEL HEIGHT KEEPING TARGET
TYPICAL PLOT OF AIRCRAFT AND TARGET HEIGHT AGAINST A COMMON TIME BASE
(ABERPORTH KINETHEODOLITE READINGS)
TOW LENGTH 20,000 ft. SPEED 300 KNOTS T.A.S.



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