Offshore Special Regulations - 4.10

Radar Reflector Specification

A submission from the Chairman Special Regulations Sub-committee

Purpose or Objective

To clarify the radar reflector specifications

Proposal

4.10 Radar Reflector

4.10.1 An octahedral passive radar reflector shall be carried with:

Octahedral circular sector plates of minimum diameter 30 cm (12”) or
Octahedral rectangular plates of minimum diagonal dimension 405 mm (16”) or
a non-Octahedral reflector with a documented Root Mean Square minimum Radar Cross Section (RCS) area of 2 m² from 0-360 in azimuth and +/- 20 in heel.

4.10.2 A Radar Target Enhancer (RTE) shall be carried which complies with ISO 8729-2:2009 or equivalent.

Current Position

4.10 Radar Reflector

4.10.1 An octahedral passive radar reflector shall be carried with circular sector plates of minimum diameter 30 cm (12”) or a reflector with a documented minimum Radar Cross Section (RCS) area of 2 m²

4.10.2 A Radar Target Enhancer (RTE) shall be carried which complies with ISO 8729-2:2009 or equivalent.

Reason

Requests for clarification have been received from a Radar Reflector manufacturer:

“We manufacture both passive and active RTE which meet ISO 8729-1997 and 8729-2 and are confused by the recent 2m² stated in the regulations shown below. Is this a maximum RCS, Average or SPL? Is there a requirement for 240 or 280 degrees of response with permitted 10 degree nulls?”