Submission: *SR03-14*

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	A~~n octahedral~~ passive radar reflector shall be carried with: **Octahederal** circular ~~sector~~ plates of minimum diameter 30 cm (12") or **Octahederal rectangular plates of minimum diagonal dimension 405 mm (16") or** **a non-Octahederal 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.	MoMu0

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.	MoMu0

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 $2m^2$ 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? "