

Rescue Seat Certification



Introduction

JFD's rescue seat certification demonstrates that the rescue seat is designed, manufactured and maintained in accordance with the dimensional and structural requirements of the most current NATO standard.

JFD's certification process will recognise either full compliance or non compliance to the requirements ANEP/MNEP 85/85.1 and the ability to safely mate with the listed SRVs in the table below. JFD can tailor the certification process to meet specific customer requirements or for other rescue capabilities not listed below whilst remaining in the boundaries of the requirements.

SRV	Nation	Max Depth
LR5 (DSAR-1)	Australia	400msw
DSAR-5	South Korea	500msw
DSAR-6	Singapore	500msw
NSRS SRV-1	NSRS	610msw
URF	Sweden	450msw

Standards

All Rescue Seat Certification is conducted in alignment to ANEP/MNEP 85 & 85.1.

ANEP/MNEP 85.1 describes the survey process for Rescue Seat Certification. It also provides specific details of a Technical Data Package which ideally should be held by a Submarine Operating Nation for every Submarine they control.

If held, this data package would be supplied to the Rescue Asset Operators to assess the rescue seat in order to facilitate mating with a Submarine. As part of the Rescue Seat Certification process JFD will provide a full, standard compliant Technical Data Package relating specifically to the design and capability of the surveyed Submarine.

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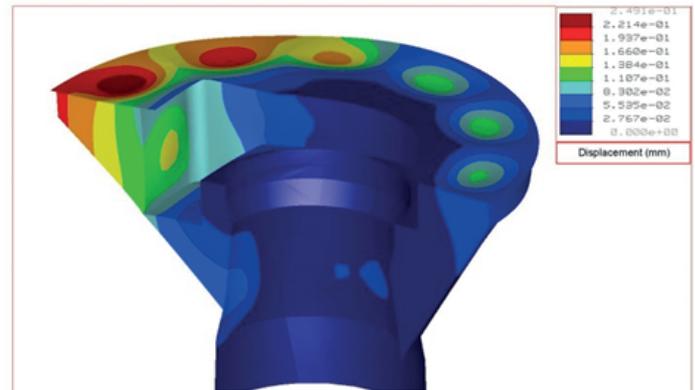


FIGURE 1. Displacement magnitude fringe plots under external pressure due to 55 msw (0.558 MPa): view at x250 magnification

Previous JFD FEA of Submarine Rescue Seat showing max displacement

Pre-requisites

Following receipt of the pre-requisite documentation, JFD would then carry out the following tasks:

- Computer modelling
- Physical survey
 - a) Rescue seat external dimensions
 - b) Rescue seat plate thickness
 - c) Rescue seat plate flatness
 - d) Rescue seat operation / obstructions
 - e) Hold down point / turnbuckles (if fitted)
 - f) Additional fittings etc.
- Quality assurance
- Outcomes and documentation
- Delivery
- Assistance with owner discussions

Types of survey

JFD's surveys can be broken down into five types depending on the seat being surveyed. Each will utilise one or more of the parts described above. Survey types are described within the table to the right:

