PT TD ENERGY SERVICES
Heartline Centre Bldg 5th Fl,
Jl. Permatasari No. 1000
Villa Permata, Lippo Karawaci
Tangerang 15810 Indonesia
Phone : +62 21 – 55658270
Fax : +62 21 – 55657271

Definition of an "Offshore Container"
"Portable unit with a maximum gross mass of 25,000kgs (55,000lbs) for repeated use in the transport of goods or equipment, as handled in open seas to/from or between fixed and/or floating installations and ships".

Design Review (Case Approval)
For design review the following documentation should be submitted:
- Drawings
- Dimensions
- Materials
- Weld details
- Weights
- Sling angle
- Calculations

Case Approval is job specific for a known batch and only valid for that batch.
If the intention is to manufacture several over a period of time Type Approval should be requested. This would be valid for 4 years, and can be renewed for longer if required.

Materials
The design temperature of the container must be a minimum of -20°C;
therefore, the materials chosen should be suitable for this temperature range, have the required ductility, be fully killed, and have no ageing properties.

Fabrication Surveys
DNV has defined inspection points and competent, trained Surveyors with extensive experience in the certification of Offshore Containers.

Welding Procedures, Welder Qualification
Welding Procedures and Welder Qualifications must meet the following recognized standards for DNV approval:
- ASME IX
- AWS D1.1
- BS EN 287 pt 1
- BS EN 288 pt 3

NB. All procedures are required to have Charpy Impact tests at WCL, FL, FL+2 & FL+5

Load Testing
For approval, a prototype from each design batch requires full prototype tests witnessed by DNV as follows:
- Drop Test @Gross Weight
- 2 Point lift@1.5 x Gross Weight
- 4 Point lift@2.5 x Gross Weight

Subsequent containers require only the 4 point lift, batch tested as per BS EN12079
(Exception being- prototype tests which are only valid for the same Fabricator)

PT TD ENERGY SERVICES
Heartline Centre Bldg 5th Fl,
Jl. Permatasari No. 1000
Villa Permata, Lippo Karawaci
Tangerang 15810 Indonesia
Phone : +62 21 – 55658270
Fax : +62 21 – 55657271

Slings

The Sling is certified as part of the Container and should be kept with the Container at all times. As the design temperature is a minimum of -20°C, the sling components should be Type Approved, however, components supplied with 3.1B certificates may be accepted. The gross weight should include the weight of the sling.

Final Inspection

After the painting and fitting of the markings, a DNV Surveyor will carry out the final inspection and review of as built documentation.

If successful, the DNV decal will be affixed and a DNV Inspection Release Report and Offshore Container Certificate will be issued.

- BS EN12079 (1999): DNV approval to DNV 2.7-1 automatically includes approval to BS EN 12079.
  IMO: DNV 2.7-1 also complies with IMO Circular MSC I Circ. 860 "Guidelines for the Approval of Offshore Containers handled in Open Seas"
- IMDG: DNV 2.7-1 Recognized & accepted by IMDG for the transportation of dangerous goods.
- DNV 2.7-1 Offshore Service Containers: Standard for electrical, HVAC, PA, Alarms, Passive PFP, Fire & Gas Detection, etc.
- UKOOA Guidelines for the safe packing & Handling of Cargo to and from Offshore locations Issue 11SSUE 2 Nov 2002: Recognizes use of DNV 2.7-1 & BS EN12079 for new fabrications.
- Quality System Certification: Fabricators of Offshore Containers are required to implement a quality system approved to IS09002.

Periodic Inspections and Added Value

DNV 2.7-1/BS EN 12079 are based on annual inspection cycles using these standards, approximately 66% savings are generated over the lifetime of a container when compared to other methods of inspection certification.

Other advantages of DNV 2.7-1

Certified Containers:

- Stronger
- Fewer Repairs
- Longer Lasting
- High Resale Value
- Better Quality
- Safer Unit
- May be used worldwide

Modifications and Repairs

All modifications & repairs to primary structure should be carried out with DNV involvement to retain the container certification.

(Source: Information compiled from www.dnv.com and DNV 2.7-1)