

EXTERNAL TANK

Visual Inspection Criteria

Tank inspections are very similar to the inspection process for pressure vessels. Read more about Offshore Technical Compliance's thorough, step-by-step visual inspection criteria for external tanks.



INSPECT TANK WALL

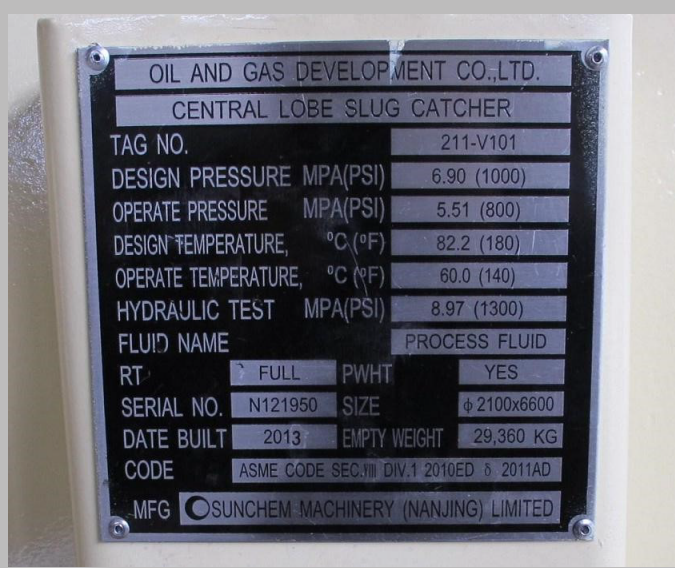
- External wall corrosion
 - Remove insulation plugs
 - Remove partial wall insulation
- Examine for process leaks
 - Reinforcing pads
 - Weep holes
- Wall deformation
 - Bulges
 - Dents
- Wall condition
 - Remove insulation
 - Corrosion at support rings
 - Check for repaired areas

INSPECT TANK SUPPORTS

- Corrosion activity

INSPECT TANK NAMEPLATE

- Present and properly installed
- Free of paint
- Legible



STAINLESS STEEL TANKS OFFSHORE ENVIRONMENT

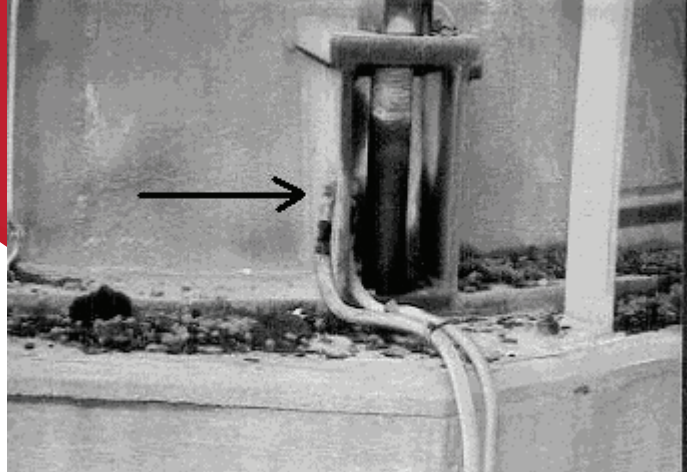


- External corrosion
 - Look for small pitting on wall
 - Examine for chloride pitting
 - Remove partial insulation
- Examine for process leaks
- Deformation
 - Look for bulge or concave areas
 - Look for indications of metal stress



INSPECT FLANGES AND FASTENERS

- Corrosion between flanges, bolts and nuts
- Check for leaks at gasket areas
- Check for improper bolting



EXAMINE CONDITION OF ELECTRICAL GROUND

- Ground quality (<1 ohm)
- Corrosion on lug or wiring
- Loose connection
- Missing connection

EXAMINE TANK NOZZLES AND MANWAYS

- Corrosion
 - Between flanges and bolt holes
 - Check insulation sealing
- Examine for leaks
 - Discoloration
 - Check weep holes
- Examine for proper bolting
 - Check for missing bolts
 - Minimum two-bolt threads protruding from nuts

EXAMINE EXTERNAL TANK INSULATION

- Missing areas of insulation
- Missing jackets
- Sealing
 - Insulation joints
 - Nozzles, lifting lugs
 - Ladder clips
- Leaks from outside
 - Breaks/tears
 - Inspection plugs
- Discoloration
 - Potential leak area
 - Potential active corrosion areas

INSPECT EXTERNAL COATINGS

- Coating voids
 - Nozzle to shell welds
 - Flange welds
 - Supports and support rings
- Peeling
- Blistering
- Deterioration
 - Inspect fire protection coatings

INSPECT LADDERS AND STAIRWAYS

- Corrosion
 - Bolting and nuts
 - Check insulation seal
- Assure Securely Attached
 - Check bolt tightness
 - Check for cracked welds or loose bolts

