

Pneumatic Dry Bulk Tanker

Recommission and Product change

Pneumatic Dry Bulk Tanker – Product Change

Project Brief

- Re-instate a decommissioned bulk tanker
- Ensure the tanker is suitable to transport food grade products

Considerations

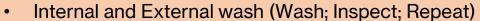
- Pressure vessel
 - Legal Compliance
- Previous product carried (SDS)
 - Urea (Carbonyl diamide) Raw material for fertilizers
 - Completely miscible Dissolves 100% in water at room temperature
 - pH 9.4 to 10.2
 - Alkaline Possible Corrosion
 - Toxicological information
 - Acute oral toxicity LD50: 8,471 mg/kg
 - Biodegradability
 - Biodegradable; 14 days
 - Not classified as dangerous in the meaning of transport



Process







- Water @ 60°C with food grade detergent
- Initial Pressure Test
- Pipes; gauges; valves and hoses
 - Pipes Sandblast; Repair and Coat
 - Seals; Hoses Replace all permeable surfaces
 - Valves; Gauges Replaced
- Internal surfaces
 - Inspect; Repair; Coat (PPG Sigmaguard 720)
- Assemble
- Pressure and Functional Tests
- Recertify Pressure Vessel Independent Inspector Wall Thickness
- Curing time 1 week
- Food Grade Wash
 - Water @ 60°C with food grade detergent
 - Certification Independent Inspector













Result







The project ran over 3 weeks. The successful recommissioning has extended the life of the old tanker and increased the eventual resale value of the asset.











Sigmaguard EHB a- Shanghai Prophylactic & Control Center b- 14-06-1999, GB/T5009,70-1996

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