

# BP Valhall

## MARRS™ Offshore

### Handrail Replacement

#### Case study facts

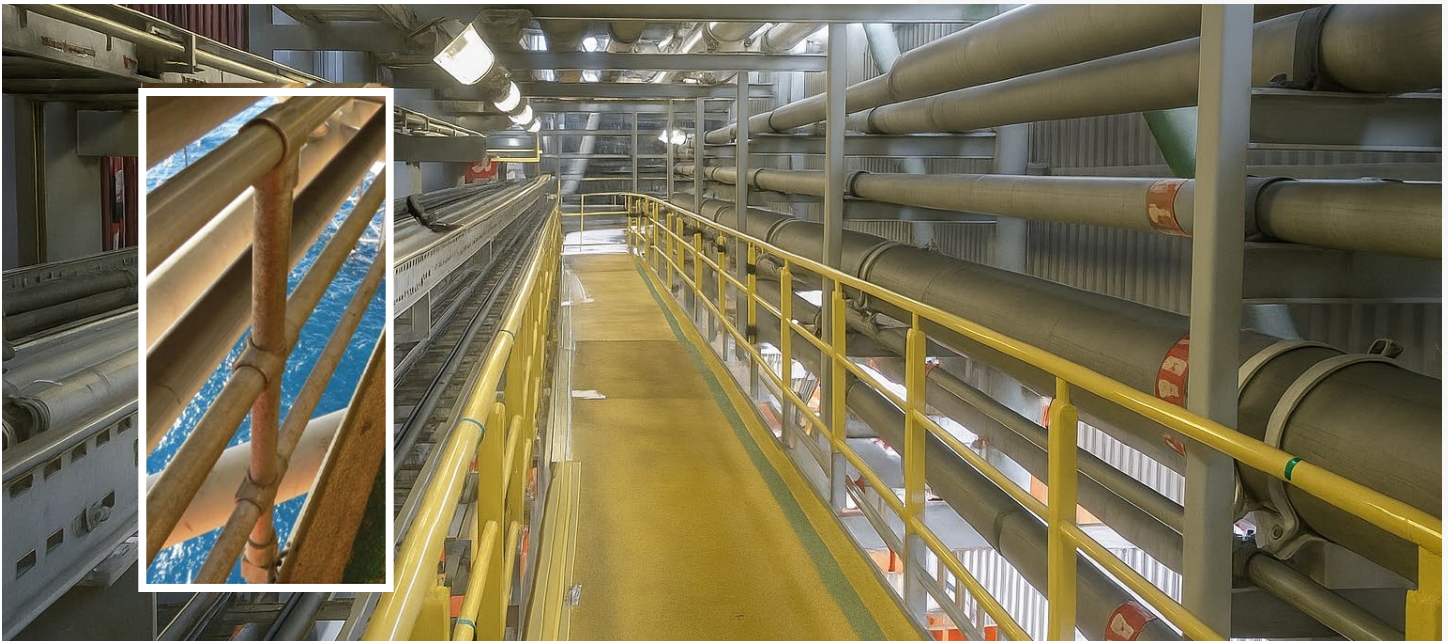
**Location:** Process and Compression Platform, BP Valhall, Norwegian North Sea

**Contractor:** MSS

**End Client:** BP

**Completion Date:** October 2015

**Market Sector:** Offshore & Subs



#### Overview

Corroded aluminum handrails along a 50-meter offshore walkway on BP's Valhall platform were replaced with NOV's engineered MARRS Offshore handrail solution—marking the first NORSOK-compliant installation of its kind in the Norwegian North Sea.

NOV supplied, fabricated and installed 100 meters of phenolic, field-proven handrails designed to endure offshore conditions. Our Field Service Engineers also handled the safe removal of the existing structure.

#### Project Details

- **Materials & Standards:** Handrails constructed using structural FRP profiles to BS EN 10204:2004 Cert 3.1 standards. All profiles met NORSOK compliance requirements.
- **Installation Approach:** Pre-fabricated components enabled fast, efficient installation. Handrails ranged from 2.5 to 4.5 meters and were lifted into place with no hot work required—minimizing operational impact and safety risk.
- **Survey & Design:** A 3D laser scan was used to generate accurate CAD drawings prior to fabrication, ensuring precision fit-up and smooth execution.

#### Key Benefits

- 60+ year design life, subject to application
- High corrosion resistance
- Salt mist tested to BS EN 60068-2-52:1996, test Kb
- Lightweight—approximately one-third the weight of metal equivalents
- Non-conductive and UV-resistant
- Maintenance-free
- Smooth surfaces for safe handling
- Installed without hot works