

Quickflange™ installation on an Ammonia Line

Overview

An ammonia line had internal corrosion on a very difficult to reach section of a tank flare system.

The ICR.IAS JV were able to solve the problem by removing the corroded section and undertaking a Quickflange™ installation using one of our trained specialists under full breathing apparatus (BA).

Scope

The line had the following specifications:

Structure	Tank Flare system
Line Media	Ammonia
Design Pressure	21 Bar
ANSI Rating	Class #150
Design Temperature	-33 to 100°C
Design Code	ASME B31.3
Schedule / Wall thickness (WT)	Sch 80
Material and Grade	A333-6 Carbon Steel
Flange materials/specification	A105N Carbon Steel
Geometry	Straight
Orientation	Horizontal



Quickflange™ Technology



Technician with full breathing apparatus

Solution

- Flanges specified and tested through DNV approved process
- Fully BA trained Quickflange™ specialist to fit with safety requirements
- Adjusted installation procedure to include a secondary isolation point as requested by the client.

Benefits

- No hot work
- Completed in one (1) day, reducing shutdown time
- No welding preparation, inspection or habitat requirements



Completed installation including a blind flange