



FLANGE MANAGEMENT VISUAL CONDITION ASSESSMENT

Increased Reliability, Performance & Long-Term Cost Reduction

- ✓ Accuracy of data due to consistent mobile inspection forms
- ✓ Efficiency of inspection by controlled workflow process within an IDMS
- ✓ Cost savings due to the identification of anomalies resulting in repairs & maintenance instead of replacement
- ✓ Notifications of identified safety issues to prevent shut downs, catastrophic events or personal injury
- ✓ Compliance data collection & control of critical procedural execution in the field

Inspection Planning / Implementation

PK Technology Specialty Services for Flange Management Tracking can assist with all Turn-Around process. Planning is the most critical part of all Turn-Around projects and PK Technology works alongside the client's on-site TAR Planning Group / Engineering Group to increase trackability and efficiency of the project.

The Flange Management & Planning Process:

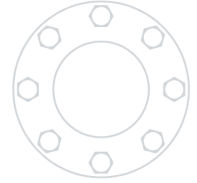
- Identify Scope
- Identify Systems
- Collect Flange Connection attributes & specifications for each connection
- Integrate data population, P&ID's, ISO's & other visual documents into intelliSPEC™
- Apply RFID Tag installation & assignment (tracking)



Document the Disassembly of Bolted Flanges & Blind Installation

Field Inspection Verify & Validate:

- Inspection of disassembled flanges and sealing surfaces
- Maintenance progress tracked by the completion of inspection forms
- KPI dashboards produced by the completion of inspection forms
- Items of interest are highlighted through KPI dashboards directing attention to potential scope growth
- Field accessibility of procedures, drawing and build of materials for reference



Mobile Technology to Document Conditions

- Proper gaskets, bolts and flange components replaced and / or used per specifications
- All components working in alignment without defect, and void of isolation and start-up leaks
- Field validation of facility torque procedure specifications and requirements
- Report showing current status as soon as it is 100% verified that blind placement and isolation has been achieved



Time Management / Global Accessibility

- Reports showing any defects identified as a flange is inspected so parts can be expedited to correct defects
- Field accessibility of procedures, drawing and build of materials for reference

Qualified Personnel

- PK Technology inspectors are certified API/CWI inspectors with industry-based experience in inspection and flange tracking work practices
- During onboarding, new inspectors are provided training in usage and functionality of our intelliSPEC™ program from our in-house SME



intelliSPEC™

- ✓ Secure cloud-based interactive web portal with data storage system
- ✓ Suite of innovative features and integrated tools for efficient review of inspection and prior
- ✓ Client-based configuration of Work Pack / repair planning and project tracking
- ✓ Business Intelligence - customized data analysis, dashboard, and reporting integrated tools