

Nuclear Digital Facility

Quest Integrity uses a fleet of advanced laser scanning systems, operated by the industry's most experienced professionals, to safely and efficiently capture the project scope. The laser scans are seamlessly merged to generate a complete and precise Digital Facility.

Features

- ALARA – A complete turn-key digital containment, or drywell, can immediately improve a plant's CRE (Collective Radiation Exposure).
- Fast and Unobtrusive – A complete facility can often be captured in less than two weeks using one two-man crew.
- Easy to Integrate and Use – Quest Integrity provides an intuitive interface to the Digital Facility, enabling users of all skill levels to easily extract required information.
- Intelligent – Plant assets are tagged in the Digital Facility, enabling users to search for a component and be directed to its exact location.

Services

- Laser Scanning
- Laser Tracking/Metrology
- 3D As-Built Modeling
- Inspection Isometrics
- Fabrication Verification
- Construction Planning
- Software Solutions

Applications

- Engineering & Design
- Fabricators
- HP & ALARA
- Operations
- Maintenance
- Outage Planners
- NRC and INPO Audits

A Digital Facility provides nuclear operators and contractors with a valuable 3D solution to recurring outage and plant operation challenges. The ability to walk through the facility and extract precise dimensions without having to enter an RCA provides significant benefit to all disciplines while also reducing radiation exposure.



Figure 1. Nozzle and Tie-Point Verification

Benefits

- Improve Outage Planning
 - More accurate record of actual conditions
 - Locate and identify risks ahead of outage/entry
 - Confirm scaffolding locations and requirements
- ALARA Control
 - Minimize or eliminate entries
 - Visual tool for ALARA briefings
 - Successfully design lead shielding
- Work Planning
 - Snapshots input to work plans
 - Locate exact locations of plant assets
 - Training tool for contractors/sub-contractors
- Engineering
 - Traditional value of precise as-built information
 - Confirm design and installation
 - Share with EPC contractors



Figure 2. CAD Model with Digital Facility

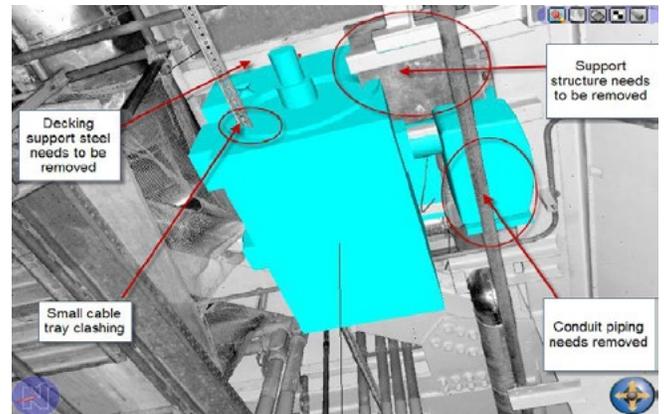


Figure 3. Installation Planning