

# NUCLEAR DIGITAL FACILITY



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.

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.

## SERVICES

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

## 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.



Nozzle and Tie-Point Verification

## BENEFITS

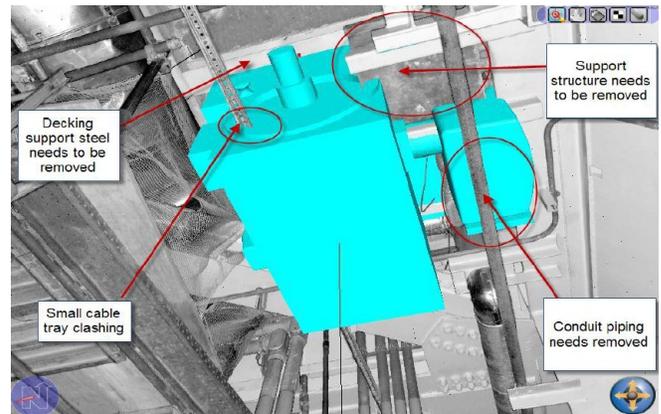
- **Improve Outage Planning**
  - More accurate record of actual conditions
  - Locate and identify risks ahead of outage/entry
  - Confirm scaffolding locations and requirements
- **ALARA Control**
  - Minimize or eliminate entries
  - Visual tool for ALARA briefings
  - Successfully design lead shielding
- **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



CAD Model with Digital Facility

## APPLICATIONS

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



Installation Planning

## QUEST INTEGRITY

Quest Integrity, a Team Industrial Services company, is a global leader in the development and delivery of asset integrity and reliability management services. The company's integrated solutions consist of technology-enabled, advanced inspection and engineering assessment services and products that help organizations improve operational planning, increase profitability, and reduce operational and safety risks. Quest Integrity is built on a foundation of leading edge science and technology that has innovated and influenced industry best practices since 1971.

[www.QuestIntegrity.com](http://www.QuestIntegrity.com)