



Feature Project:

Job Scope

- After decades of service, a safety system discharge head needed replacement at the Columbia Nuclear Energy Station.
- A replacement head arrived on-site, but verification was needed to ensure the new head would match field conditions of the original head
- Columbia Station had a very short window in which to replace the head, there would be no time for misalignments in the field.
- Any dimensional documentation of the existing discharge head could not be verified for accuracy.
- Exact Metrology was brought in to provide 3-D models of the new and old head and provide comparison reports to alert Columbia Station of any potential problems that could arise during the replacement installation.

Metrology Equipment Utilized

Leica Geosystems HDS7000 Laser Scanner



- Fully integrated Laser Scanner
- Onboard scanning
- Battery operated
- Up to 1,000,000 points/sec
- 180 Meter Range
- Accurate to +/-0.125"
- No warm-up time
- Phase Based Scanner
- Captures entire 3-D scene
- Class 1 Laser safety rating

Romer Absolute Si PCMM



- Fully integrated Laser Scanner and Probing
- Up to 50,000 points/sec
- Accurate to +/-0.0025"
- Wireless scanning
- Battery operated
- No warm-up time
- Available 2 M – 4.5 M
- Semi-automatic power/exposure
- No part coating necessary
- Automatic probe/scanner recognition