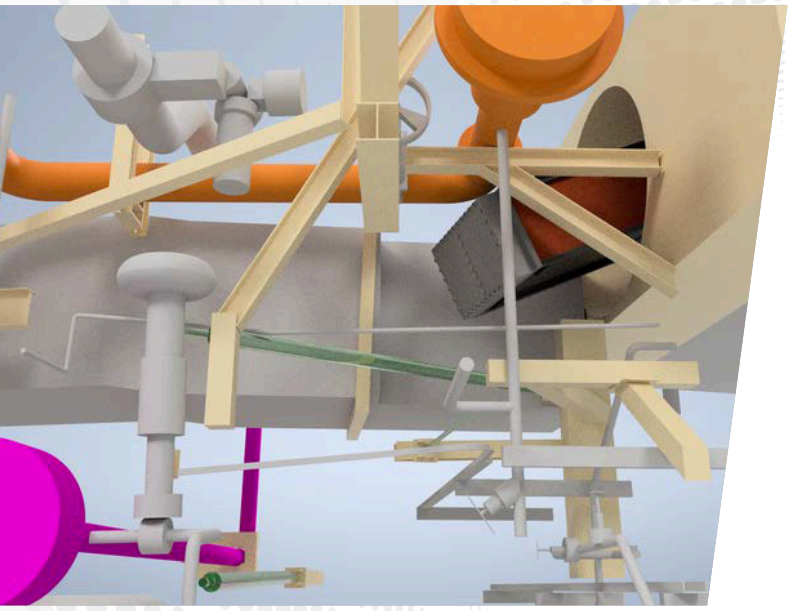
RCI ENERGY SERVICES

PROFESSIONAL • RESPONSIVE • RESULTS

COMPONENT HAUL PATH & INTERFERENCE IDENTIFICATION

RCI METROLOGY DIVISION

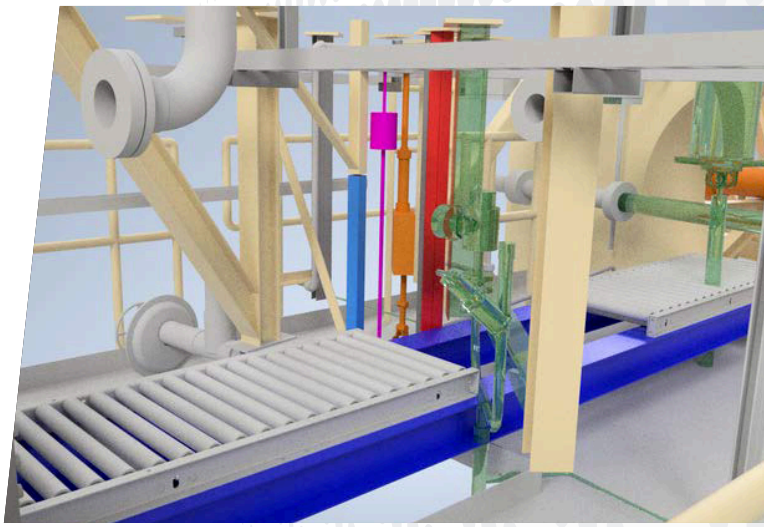


PROBLEM

Two large HVAC units located inside a nuclear reactor containment building required the coils to be changed out during a scheduled outage. Maneuvering the large coils through the equipment-laden environment posed significant challenges. The planned haul path involved navigating through two rooms using a combination of monorails, rigging, and roller beds. Once into the HVAC room, there was an elevation change of approximately 20 feet down to the installation point. Implementation asked for us to identify interferences along the path including hangers, ducting, and piping.

SOLUTION

Before the planned outage, our team conducted 3D laser scans of the haul path area and generated a point cloud from the data. Utilizing our 3D CAD software, we imported the point cloud to accurately model the as built condition. The manufacturer of the new HVAC coil provided us a model which we incorporated into our as built model. This allowed us to simulate the coil's movement along the expected load path, presenting potential interferences and issues to the implementation team and project managers.



THE RCI ADVANTAGE

Saved Resources

During a planned outage, the quicker that you can get tasks accomplished, the more time, money, and radiation dose you can save. A small investment upfront allowed the implementation team to go into the outage with confidence that the route they had planned to take would ultimately lead them to a successful install.

Great for Presenting Information

This tool is ideal for presenting information to groups or management unfamiliar with the area or specific components. While still pictures offer limited viewpoints, our model can be viewed from any angle, enhancing understanding.

CONTACT

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