

General Steam Drum Inspection

Many power plants have encountered erosion, corrosion and other anomalous conditions within various components and deck levels of their steam drum internals. Rolls-Royce offers the most comprehensive steam drum inspection available today, with the tools and inspection capabilities to help your facilities trend steam drum conditions to properly manage maintenance activities.

This service allows you to determine steam drum structural integrity and cleanliness, as well as locate anomalous conditions and foreign objects. Foreign objects may induce tube failures through impacting, vibrations and other means, thereby adversely affecting plant operability that may cause unplanned outages.

Access to the steam drum area also allows for inspection capabilities such as:

- Anti vibration bars
- U-bend region
- Lattice support structures

Benefits of the Rolls-Royce steam drum inspection:

- Detect system erosion and corrosion prior to failures
- Reduce the risk of forced shutdowns due to foreign object damage or component degradation
- Improve system performance
- Support system condition monitoring
- Identify issues that may indicate problems up-stream

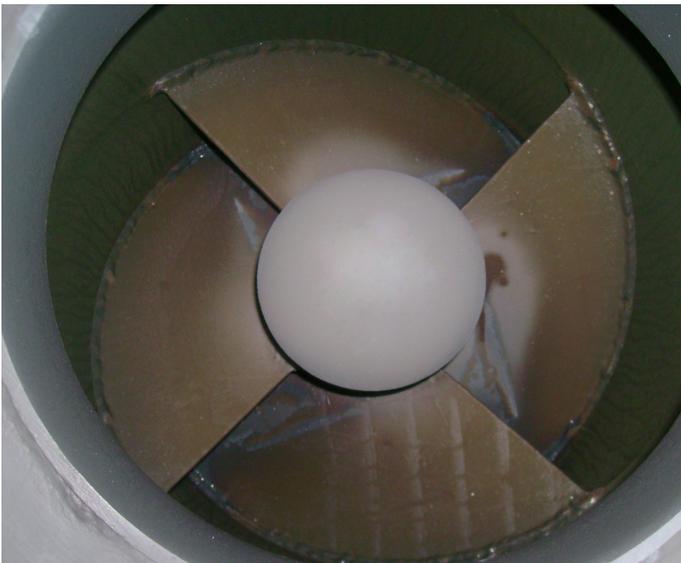
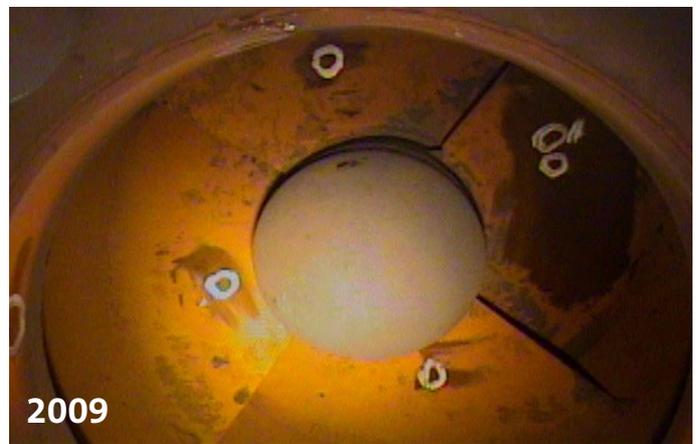
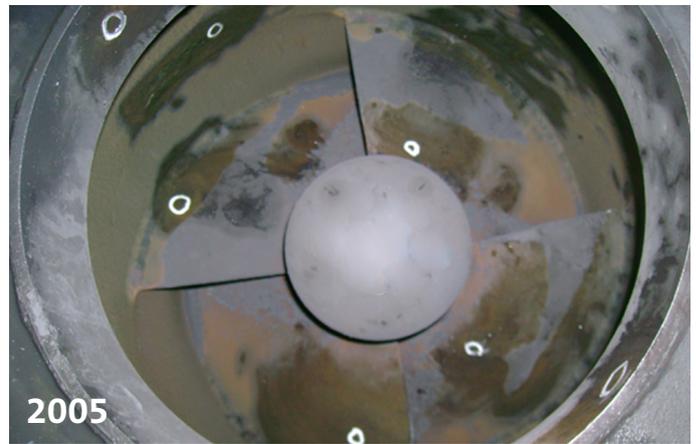
Capabilities:

- Tangential nozzle impingement areas
- Primary and secondary moisture separator assemblies
- Flow hold blockage detection
- Decks and deck supports
- Feedwater header, header supports, j-nozzles and weld backing rings
- Aux feedwater
- Drain lines
- Ladder and access hatches

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Steam drum inspections criteria

All points of interest in the steam drum are inspected for anomalous conditions: corrosion/erosion, cracked welds, and physical distortion/ dislocation/movement. The steam drum is also inspected for sludge deposits and the presence of foreign objects.



Manage data more efficiently with Rolls-Royce Component Information Systems (CIS) Steam drum inspections can capture hundreds of high resolution, true color images which can be automatically up-loaded to CIS. CIS gives Rolls-Royce customers the exclusive ability to view inspection data in real time, cutting characterization and decision making time to a minimum. Images and tracking data are stored on a password protected, secure server and are accessible twenty four hours a day, seven days a week from anywhere in the world.

Our references

- More than 27 years of experience enables Rolls-Royce to inspect nearly every part of the secondary side of a nuclear steam generator
- Proven trending capabilities with the use of Rolls-Royce CIS
- Reliable prediction of problems

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