Retaining Ring Inspection

WesDyne continues to lead the way...

• with a retaining ring inspection experience base that is unmatched in the industry. Since 1985, WesDyne has requalified over 750 18Mn5Cr retaining rings for continued service.

• with ultrasonic (UT) and eddy current detection sensitivity which are based in interrogating both service-induced cracks and EDM notches. Rings with service-induced stress corrosion cracking were used to optimize UT inspection parameters such as refracted angle, transducer, and frequency selection.

• by performing visual examinations using a remote video probe to detect evidence of corrosion pitting along the rotor body and on accessible surfaces under the rings. A comprehensive evaluation of the condition of each rotor is made and compared against the results found for numerous other rotors.

• with a TG engineering and technical staff that has on average over 15 years experience. WesDyne personnel are the most knowledgeable and competent in the industry for non-destructive examinations on turbine-generator equipment, regardless of OEM.

A Powerful Part of Your Team
System Specifications

R D 2 S c a n n e r

WesDyne’s RD2 scanner is designed for the inspection of turbine generator retaining rings. It has been successfully used for both in frame and out of frame inspections.

- **Ring Diameter**: 28 inches or greater
- **Ring Length**: 15 inches or greater
- **Axial Position Resolution**: 0.001 inch or better
- **Axial Position Repeatability**: 0.010 inch or better
- **Circ. Position Resolution**: 0.01 degree or better
- **Circ. Position Repeatability**: +/- 0.01 degree or better
- **Scan Speed**: 2 in/sec (circ. & axial)

PARAGON™ Data Acquisition System

Precise data acquisition techniques, combined with the signal recording and processing features of the WesDyne PARAGON™ system, permit accurate discrimination and characterization of flaws. Permanently stored data can be used for subsequent flaw evaluations and for future monitoring of subcritical flaws.

- **Operating System**: Microsoft Windows NT
- **CPU**: Dual 1 GHz Intel Pentium™
- **DRAM**: 1 Gbyte
- **Scan Rate**: Up to 6 inches per second
- **A/D Converter**: 12 bit, 125 MHz digitizer
- **Pulser/Receiver**: 16-channel

Count on WESDYNE for all your NDE inspection services.