

Engineered Systems and Solutions

Nuclear Instrumentation Troubleshooting and Maintenance Issue Support

Background

As the Original Equipment Manufacturer (OEM) of many Excore Nuclear Instrumentations Systems (NIS) in the operating fleet, Westinghouse continues to provide the guidance and assistance required to keep these systems fully operational.

It has become increasingly difficult to retain the onsite skills and expertise required to repair and maintain Westinghouse NIS Electronics and Detectors due to their length of service and vintage of the electronics.

Many units are seeing age-related issues that are more difficult to address and unfamiliar to site personnel. Westinghouse applies a systematic method to the troubleshooting and repair of the systems based on our significant operating experience.

Description

Westinghouse can provide immediate troubleshooting support as well as long-term reliability analysis and planning. Example areas of support include:

- Westinghouse Emergent Engineering support
 - Repair/Troubleshooting Plan Development
 - Interpretation of System Data
- Planned Outage Support
 - Detector Replacements
 - System Calibrations
 - Component Replacements
- Reliability Improvement Planning
- Procedure Optimization

Benefits

Westinghouse can provide expert assistance to your team during difficult maintenance events or during emergent plant downtime issues. Utilizing Westinghouse Systems Experts can:

- Expedite the resolution of emergent NIS issues
- Shorten plant downtime

- Reduce O&M costs through procedure optimization and application of industry best practices

In addition to emergent/unplanned technical support, Westinghouse can provide expert long-term planning recommendations including upgrades for the NIS. Upgrades can be implemented in one outage, or in phases by selecting high-impact improvements. Drawer upgrades offer many improvements including increased system reliability, improved testing, and longevity.

Experience

Recent examples of successful Westinghouse technical troubleshooting and support services include:

- SR High Voltage Adjustments
- SR Preamplifier Optimization
- SR Discriminator Settings
- SR Cable Connector Issues
- SR Sensitivity and Aging Issues
- SR Ground loop Issues
- PR/IR Bistable Trip Root Cause Analysis
- SR/PR/IR Drawer Alignment and Component Issues
- PR/IR Drawer Setting Optimization



Typical Westinghouse Nuclear Instruments

