

# Steam Generator Automated ET Data Analysis System

AIDA integrated data analysis platform



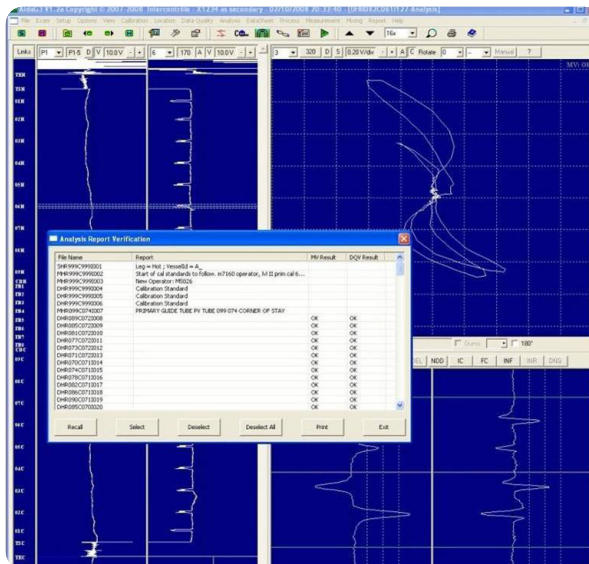
AIDA is capable of fully automatic as well as manual analysis of bobbin, MPRC and array probe eddy current (ET) data. It provides automated reports and streamlined results, reducing time and personnel required.

## Proven results at more than 20 sites

Steam Generator (SG) tube inspection at sites requires comprehensive data analysis for many attributes that include: flaw detection, noise monitoring, identification of manufacturing anomalies, changes and degradation of internal components which support the tube bundle, deposit measure and mapping. To accomplish this with confidence, a full system approach and application of qualified algorithms and experience is required. AIDA is a proven solution for these challenges. Developed by the global resources of AREVA, AIDA has been deployed more than 60 times at more than 30 nuclear units in the past eight years. Its high POD and low false-call rate performance is significantly above industry requirements, standards and practices.

## Fully adaptable with options

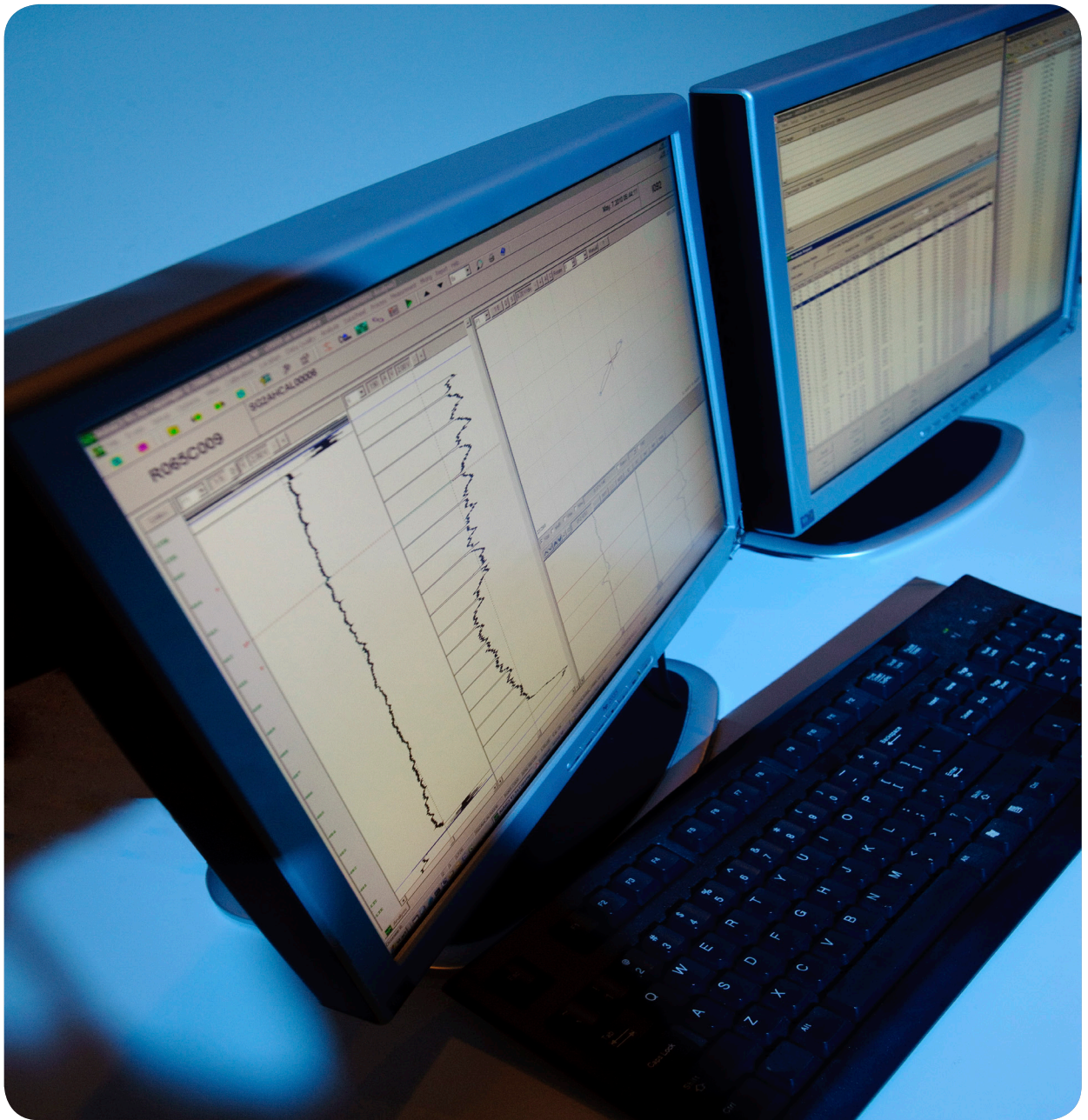
- AIDA is generically qualified to EPRI and industry standards and configured specifically for the model SG to be inspected.
- AIDA specifically addresses industry OE with dedicated methods for flaw detection and characterization, growth assessment, tube identity verification, deposit mapping, AVB mapping, and assessment of internal structure placement and integrity.
- AIDA employs redundant calibration, location and detection algorithms to perform fully automated analysis, producing several final reports simultaneously.
- AIDA results are fully compatible with other applications and can be integrated and used by other methods and techniques.
- Advanced features include AREVA's innovative tube ID verification process to compare current ET signatures with historical data. This enables an additional layer of tube ID verification — independent of any robotic parameter.



- AIDA data screening and preliminary disposition is supplemented by analysts' review. Global experience with AIDA provides maximum opportunities to share ET best practices and resources.

## Features and Benefits

- Faster analysis: Only one-to-two seconds per tube
- Reduce cost by using less than half of the manual analysts usually required
- Comprehensive analysis is tailored to your specific steam generator configuration
- Proven full-tube coverage and documented accurate application of techniques
- Exclusive configuration that applies redundancy at every step for better performance
- Enhance safety by tracking previous indications to evaluate growth; alerting the Licensee to any significant changes in SG condition
- Remote data links: T-1 or satellite connections allow home office data review in U.S., France or Germany



➤ **Game-changing automated  
ET data analysis reduces  
inspection time and staff.**

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