



Get the Best View
AREVA Secondary Side Inspection

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AREVA



Peak Performance

Predictability. Reliability. Dependability. Maintaining your steam generators safely at peak performance requires insight and tenacity. At every turn AREVA can help you investigate issues, detect foreign material and monitor overall steam generator (SG) performance. We can give you a clear picture of what's around every bend in your SGs. And when you feel like you are up against a tight spot — we can get you out.

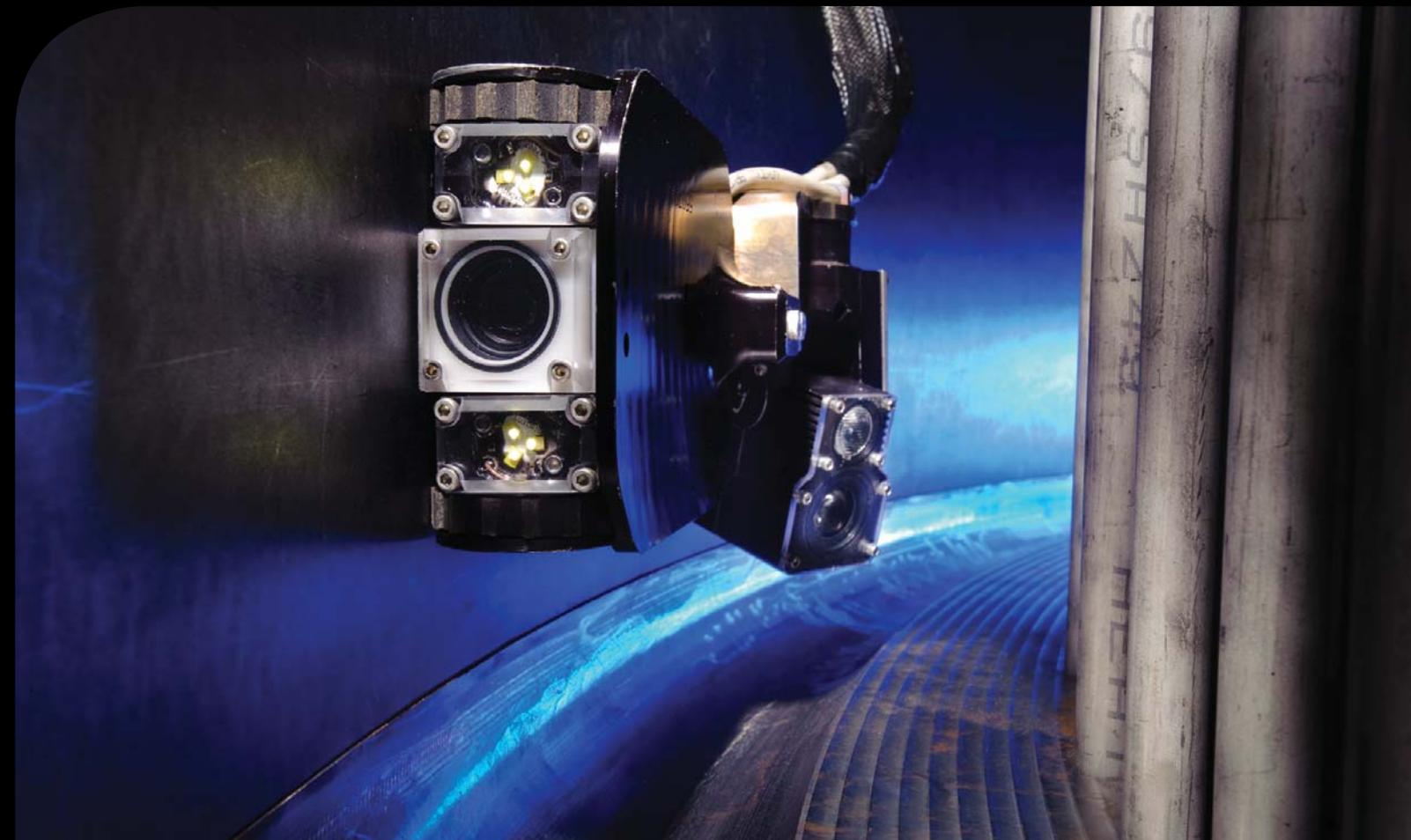
Seamlessly Integrating the Primary and Secondary Side

We combine the best of expertise and technology to deliver the most cost-efficient, safe and reliable Secondary Side Inspection (SSI) results. Plus, we can adapt technology from our global resources. The good news? We are committed to continual investing so our cutting edge technology can keep evolving. In addition, our teams consider the total picture for your SG health by seamlessly integrating primary and secondary side services. Our number one mission is to safely remove foreign material out of your SGs while minimizing personnel radiation exposure. And since we are a complete one-stop resource, you can avoid the hassle of numerous subcontractors.

Investing to Deliver Premier Technology

That's why we invested millions in R&D to set a new industry standard for SSI. It starts with our new remotely controlled robotic crawler — no surface or crevice is left unexplored. The waterproof crawler enters the steam generator from a hand hole and provides full access around the periphery region. Our design — unique to the industry — utilizes independent modular tracks allowing the crawler to traverse through the SG trough, along the shell, on top of the shroud and other locations. And an automated inner-bundle strip tool delivery system will increase access into tight triangular-pitch steam generators.

Combined with our new 2.5mm CCD camera and new control system, our crawler can provide multiple views. The remote data control station can display all views simultaneously. In fact, AREVA's video package uses a sub - 0.090" CCD-imager with over 250,000 pixels of resolution. The result? You further minimize personnel radiation exposure and get the complete picture of your inspection progress.





Communication with ECT Data Management

Our ECT mobile acquisition trailer is designed for quick setup, deployment and unloading so your plant gets back on the grid faster. Plus, our SSI trailer can communicate directly with our remote eddy current analysis trailer personnel, further enhancing seamless integration and communication between primary and secondary steam generator activities. In fact, our systems can communicate with ECT data management to help verify that all foreign material identified by SSI is mapped into the Data Management files. These files can then be used for ECT inspections. Plus, all ECT calls for foreign material (PLPs) are fed to the SSI computers for video verification. Our SSI mobile acquisition trailer (including our Foreign Object Tracking System and VIEWS – Visual Inspection Enhanced Workflow System) is continuously updated to enhance remote data analysis activities for both the primary and secondary side. Our teams are ready to evaluate and address any emerging issue to get your plant back on the grid faster.

Real-Time Processing and Position Tracking

VIEWS also works hand-in-hand with our Foreign Object Tracking System. Soon, these advanced capabilities will provide real-time processing and position tracking of your inspection – keeping the lines of real-time communication open between the primary and secondary side teams. AREVA Engineering consistently monitors our Foreign Object Tracking System from our home base in Lynchburg, Virginia. AREVA also uses various techniques such as SmartBoards to link site with engineers in Lynchburg.

Loose Part Retrieval

AREVA's 35 years of experience in foreign object inspection and retrieval (FOSAR) have saved a number of plants problems associated with foreign material rattling around in steam generators. AREVA has developed various tools and techniques for retrieval of nearly 2000 loose parts.





Exclusive VIEWS System

Our exclusive data control system and crawler will work together on positive tube identification through position tracking — so you know the crawler and tooling positions at all times, allowing flexibility during inspections and delivering unsurpassed picture quality.

AREVA's patented, next generation VIEWS control system includes visual inspection capture, processing and tracking software. It works with the latest data control stations to give you a clear and total view of the job at hand — with the highest quality image capture recording and printing devices. And it can help you plan and evaluate future plant performance.

New SSI Mobile Acquisition Trailer

Our operators and data control systems can be housed anywhere at the plant site — even outside in our new SSI mobile acquisition trailer. This highly advanced technology center includes the latest data analysis bays, full 1080p HD recording capabilities, and a customer meeting area. It all allows you to watch your inspection in progress, or any other archived part of your inspection, on Blu-ray DVD via a 1080P HD plasma screen.

The Peace of Mind You Deserve

Ultimately, this is all about you, our highly valued customer. It's about giving you the peace of mind that nothing in your steam generators is going to disrupt your plant performance and megawatt production. It's about keeping you on the grid during time of peak demand. And emerging from challenges to successfully provide pure, CO₂- free energy for America.



AREVA in North America (AREVA Inc.) combines U.S. and Canadian leadership to supply high added-value products and services to support the operation of the nuclear fleet. Globally, AREVA is present throughout the entire nuclear cycle, from uranium mining to used fuel recycling, including nuclear reactor design and operating services. AREVA is recognized by utilities around the world for its expertise, its skills in cutting-edge technologies, and its dedication to the highest level of safety. Through partnerships, the company is active in the renewable energy sector. AREVA's 4,300 employees in North America are helping build tomorrow's energy model: supplying ever safer, cleaner and more economical energy to the greatest number of people.

us.aveva.com

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