

Multi-Functional Underwater Submarine Delivery System

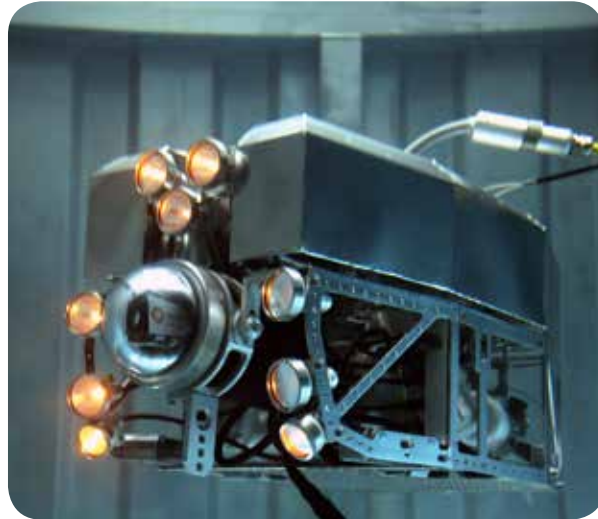
SUSI Submarine-Based Inspection



The Most Stable, Maneuverable and Versatile Submarine Delivery System in the Industry.

Nuclear plants worldwide perform a variety of underwater NDE activities from VT-3 to EVT-1 and UT examinations, both to primary and secondary side components. Plants are constantly challenged when trying to examine hard-to-reach areas. That's why AREVA developed the Submarine System for Inspections (SUSI).

SUSI is available in a variety of models: the 420, 270, 190 and mini. SUSI can be outfitted with a variety of tools including cameras, UT transducers, and FME retrieval tools. In the water, SUSI is neutrally buoyant and is the most stable delivery submarine system in the industry.



In addition, SUSI is equipped with a precision depth gauge for location verification and can be calibrated underwater at any time during an examination. A separate satellite camera system can be deployed with SUSI or on its own to further enhance examination results in hard-to-reach areas.



A Variety of Examinations

- Reactor vessels
- Reactor internals
- Primary loop from the steam generator (SG) & main coolant lines
- Core check after reload
- Main coolant pump housings
- Top of SG tube bundles
- Verification of the integrity of SG tube bundles and gaps
- Tanks and piping



AREVA Teams Stand Ready to Support Your Goals



Positioning Control During Examination of Core Barrel Baffle Bolts

SUSI is an essential tool for highly effective Baffle Bolt Exams. Want enhanced reliability? SUSI delivers — and also saves time. In fact, AREVA developed a specialized UT technique to inspect baffle bolts for a customer with an urgent need. The technique was demonstrated and tested on samples of the same type of bolts slated for examination. The entire process, from phone call to delivery, took only two weeks. But there's more. The UT examination on-site progressed so well, the scope was expanded to encompass all eight rows or 864 of the customer's baffle-to-former bolts. All completed in just 56 hours.

Put SUSI to work for you

Reliability. Performance. And speed. It all adds up to SUSI. AREVA's global resources stand ready to put this dynamic innovation to work for you.

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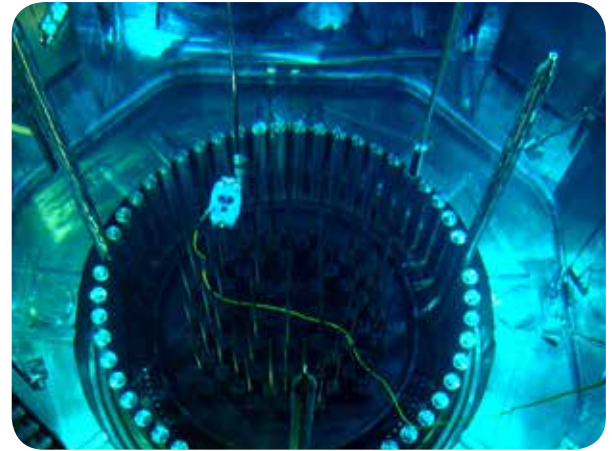
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Features and Benefits

- Four independent degrees of freedom make SUSI the most maneuverable submarine in the industry to provide the examination without compromising quality.
- Components are radiation-resistant to ensure equipment reliability and the highest quality of video.
- SUSI is easily adapted and reconfigured for the changing needs of the nuclear industry. In 2013, a new end-effector was developed for the internals examination market.
- The system is easily set up and removed from containment to minimize impact to the overall outage.



Your plant can be confident in the accuracy and predictability of your underwater inspections by deploying AREVA's innovative SUSI toolkit.

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