

## Integrated Measurement Solutions

### Full-Scope Metrology Capabilities

Framatome's integrated measurement services helps you successfully complete your major projects through in-house, full-scope, advanced metrology capabilities that provide the highest level of accuracy, resulting in first-time fit-up, every time.

#### Challenge

As utilities seek innovative approaches to major upgrades, replacements and maintenance, the ability to adjust to ever-changing and sometimes unexpected survey environments becomes more important than ever, allowing for the shaping of on-site schedules and budgets that meet your project needs.

#### Solution

Framatome has in-house, full-scope, advanced metrology capabilities to ensure precise fit up, from planning through installation, all backed by a proven track record of successful data interpretation. Our portfolio spans a wide range of industries — shipbuilding to nuclear — providing the basis for our sound judgement while supporting the nuclear industry. Support is available for design engineering, fabrication, installation, dimensional receipt inspection, large volume surface modeling, and interference detection as well as animation creation. Innovative technologies, ranging from high to low tolerance applications, include digital photogrammetry, laser tracking, industrial total stations, laser scanning and complete 3D CADD analysis/visualization.

Framatome's Metrology Services team is an experienced group of professionals, possessing a deep bench-strength of knowledge that can provide your personnel with the most comprehensive solutions to the unique challenges of our industry — all backed by Framatome's commitment to operational excellence.



#### Customer benefits

- Reduces project dose
- Reduces project risk
- Reduces project time
- Improves project safety
- Improves project predictability
- Advanced interference notification
- Minimized re-work
- Customized applications to meet your specific needs

## Features

- Multiple metrology technology integration
- Underwater measurement capabilities
- Piping modification and templating support
- Reverse engineering and modeling support
- Virtual alignment of components and machinery systems
- Advanced interference notification
- Animation sequences ensuring proper travel paths



## Improves financial success

### Major Component Replacements

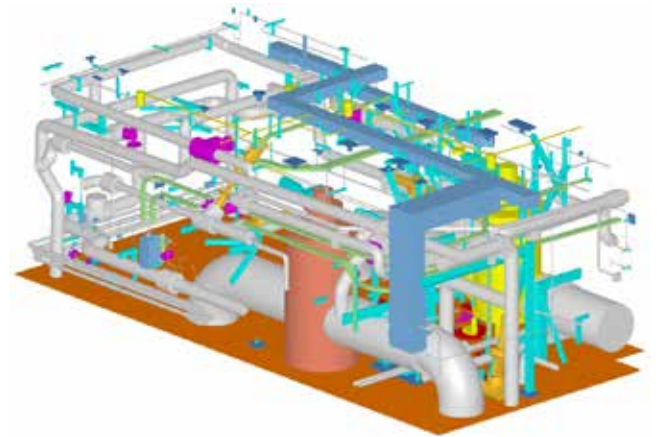
Framatome Metrology Services provides the meticulous measurements required to install new steam generators, feedwater heaters, reactor vessel heads, reactor coolant pumps and more. We've supported over 150 major component replacements across the nuclear fleet, and our precise calculations enable off-site component fabrication, dose savings and first-time fit-up.

### Piping Replacements

If you need to replace your piping, Framatome Metrology Services provides complete measuring capabilities: consulting, recording, analysis and validation. We've successfully supported over 50 piping system replacement projects across a wide range of industries, providing elimination of rework, improvement of schedule and maximized return on investment.

### Transmission and Distribution

Precise measurements lower project risk and improve project predictability for transformer replacements. For that, you can depend on the accuracy of Framatome Metrology Services. Our experienced professionals have the cutting-edge examination equipment and analysis software used to support over 15 successful transformer installations across the nuclear fleet. We have the institutional knowledge and lessons-learned database that leads to transformer replacement success.



**To get the big jobs done right the first time, we provide the accuracy you need. Count on it.**

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is **our** everyday **commitment**

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