

Materials and Failure Analysis Service Support for Your Plant

Ensuring availability and improving maintenance

Take advantage of our problem-solving expertise and our decades of experience in plant maintenance

Challenge

The strict implementation of safety standards, the availability and the cost-efficiency remain the top priorities. In a context of constant technical progress and service life extension of plants, requirements for maintenance concept have changed. Mechanical fatigue, wear or corrosion are degradation mechanisms that require a careful assessment to ensure the sustainability of infrastructures. Therefore, a reliable monitoring is necessary to identify the root cause of damages at the earliest stage to prevent their onset.

Solution

Framatome has many years of experience in plant service and troubleshooting. We have already dealt with complex maintenance issues that had to be accomplished in an interdisciplinary manner within challenging deadlines and under consideration of stringent quality requirements.

Our expert teams are available to support you specifically in the following activity fields:

- Materials Technology
- Integrated Creep-Fatigue Concept
- Consulting Service for Heat Exchanger & Valves



Customer benefits

- Material related condition assessment of plant components with on-site methods for improved plant availability
- Fast failure analyses with tangible recommendation of corrective measures
- Interdisciplinary solution approach involving a wide range of engineering competencies for relevant results and less interfaces

Your performance
is **our** everyday **commitment**

Technical information

Materials Technology

Framatome's Technical Center operates laboratories specialized in materials and failure analysis to provide the most relevant technical solution. Our focus is set on:

- Fast failure analyses and recommendation of remedial measures
- Material, corrosion and welding engineering
- Fitness-for-Service evaluation
- Application of Replica technic in the framework of rating creep rupture damages
- Non-destructive on-site examinations (cleanliness, roughness, chemical analyses, hardness measurements)

Integrated Creep-Fatigue Concept

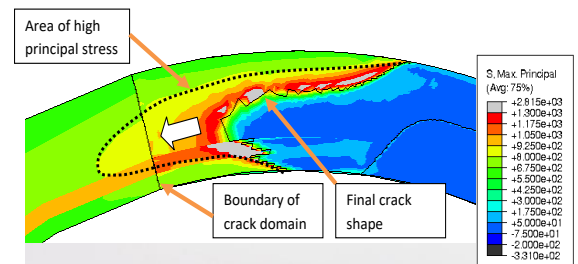
Framatome's concept enables the fitness and remaining service life assessment of components either exposed to high temperatures or dynamic loads or both simultaneously. This concept considers all relevant stages in the life cycle of a component: design - manufacture - operation - decommissioning.

Consulting Service for Heat Exchangers & Valves

Framatome provides a solid know-how acquired over decades of experience as plant manufacturer and equipment supplier. To optimize the equipment availability, we provide a comprehensive support regarding manufacturing and implementation of heat exchangers and valves. Our services include design-review, optimization of installations and design of new devices.



On-site inspection



Integrity assessment

Global references

- Nuclear Power Plants
- Nuclear installations
- Fossil-fired and wind power plants
- Production facilities of Oil & Gas and chemical industries
- Equipment suppliers

Key figures

24/7 Service our trouble shooting service is available at any time in case of unexpected failures

4 Days is the maximal guaranteed deadline to provide you an exploitable outcome

350 failure analyses per year including

100 ad-hoc failure analyses per year

Contact : materials@framatome.com
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