

MECHANICAL CALCULATIONS EXPERTISE

Framatome Excellence Center of Calculations to serve the Customers worldwide

Challenge

Demonstration of compliance to technical and regulatory requirements for components and mechanical structures in many industries

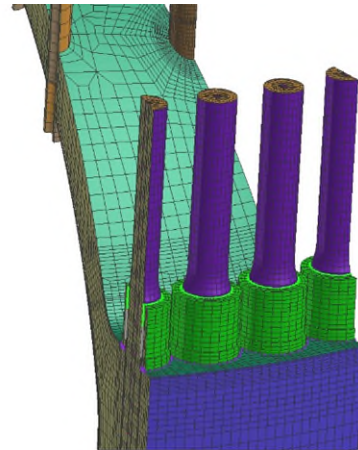
Solution

- Thermal, thermal hydraulics and mechanical multi-action-effects calculations
- Manufacturing processes simulation including thermal simulation
- Fracture mechanics: analysis of crack propagation in relation with manufacturing process and component lifetime
- Fatigue analysis and component service lifetime
- Elastic and elastoplastic analysis
- ASME, RCC-M, RSE-M, ESPN codes and regulations, etc.
- Development of codes and methods is internally developed with dedicated expert resources
- Definition or adaptation of manufacturing processes with welding and non-destructive testing experts
- Solutions applicable to a wide range of industries (Oil & Gas, Energy, Aerospace, Chemical, Pharmaceutical, Transportation, Special Tooling, Ship Industry and Navy, Defense)

Customer benefits

- Safety and Quality Conformity
- Trusted supplier with a proven experience in nuclear activities
- Analysis by Calculation Experts leading to decisive conclusions

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



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Tools

- Systus ANSYS simulation software
- In-company developed-Codes
- CATIA type CAD
- Infrastructure supported by one of the largest calculations network in France

References

- Capacity to fit the global market (South Africa, UK, China, US)
- Justification of nuclear primary loop components including pressurized equipment
- EDF large scale modernization program (extension of 1300MWe nuclear reactors' service lifetime)

Key figures

45 years of expertise in the mechanical calculations

20% of the team is made up of experts having a PhD degree

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