

Calculation tools development

For mechanical studies

Framatome Center of Excellence for Calculations to serve Customers worldwide

Challenge

Demonstration of compliance with technical and regulatory requirements for components and mechanical structures in various industries due to qualified engineering tools.

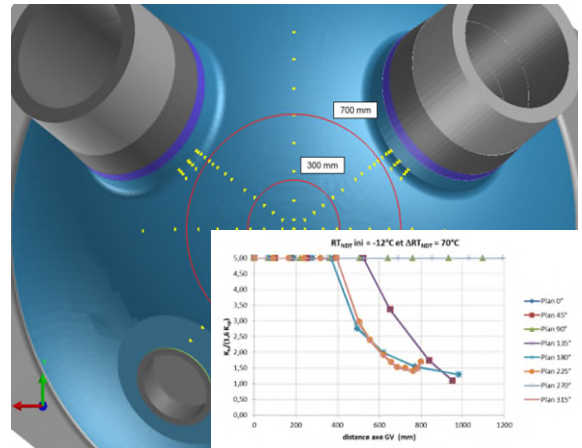
Solution

- Development of post processors to analyze stress according to RCC-M, ASME or RSE-M codes in domains such as fast fracture analysis, fatigue analysis, multi perforated structure analysis.
- Qualification of the tools according to the most stringent regulations: DESP, ESPN, EN, ASME.
- Training pack for end users.
- Development of toolkit based on SALOME_MECA platform to solve mechanical problems: various levels of support are proposed depending on the customer's needs.
- Ability to perform specific calculations chained to one another.
- Solutions applicable to a wide range of industries (Oil & Gas, Energy, Aerospace, Chemical, Pharmaceutical, Transportation, Special Tooling, Ship Building Industry and Navy, Defense).

Customer benefits

- Safety and Quality Conformity
- Agile solutions targeted to solve industrial specific situations
- Training sessions with experts in analysis tools, regulations and mechanical analyses

Your performance is our everyday commitment



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Tools

- SALOME_MECA & CODE_ASTER
- Python
- ANSYS
- SYSTUS
- SYSDRIVE, PIPESTRESS

References

- Capacity to fit the global market (Europe, 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 mechanical analyses and software development

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

Contact: g-fra-pcm-sales@framatome.com
www.framatome.com

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