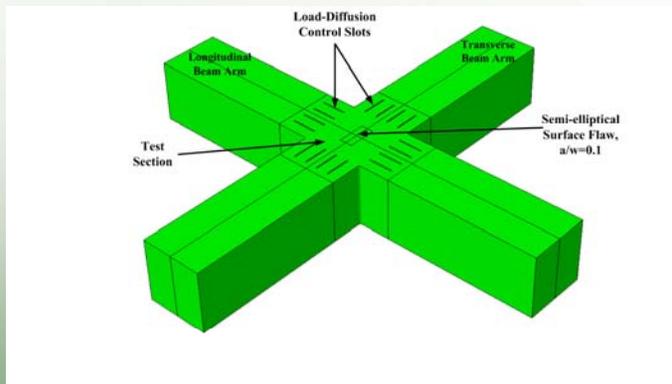
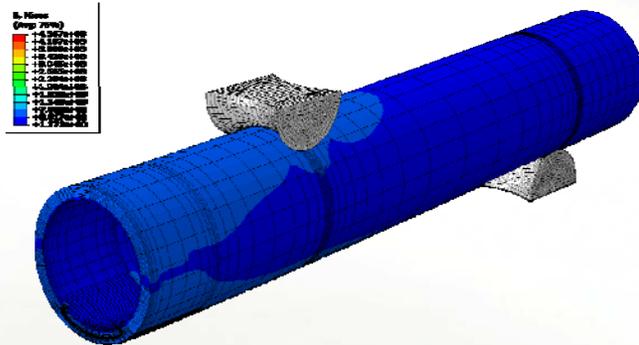


European Networks

Modeling and Simulation Group

Computational Sciences & Engineering Division



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Problem Statement:

- On behalf of the NRC, ORNL is coordinating ORNL/NRC participation in collaborative international projects sponsored by European Networks.

Technical Approach:

- The Probabilistic Pressure Boundary Integrity Safety Assessment (PISA) Program participates as an "in-kind" contributor to three European EURATOM Networks and monitors progress in a fourth:
 - **STYLE** – *Structural integrity for lifetime management – non-RPV components* (participant)
 - **NESC VII** – *Network for Evaluation of Structural Components* (participant)
 - **PERFORM 60** - *Prediction of the Effects of Radiation for Reactor Pressure Vessel and in-core Materials using multi-scale modeling – 60 years foreseen plant lifetime* (participant)
 - **LOGLIFE** - *Treatment of Long Term Irradiation Embrittlement Effects in RPV Safety Assessment* (monitor progress only)

Benefit:

- CSED's participation in these European projects contributes to: knowledge management, model development, validation of both large-scale and laboratory-scale experiments and access to data and databases.

