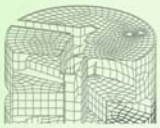
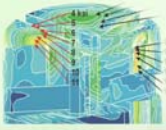




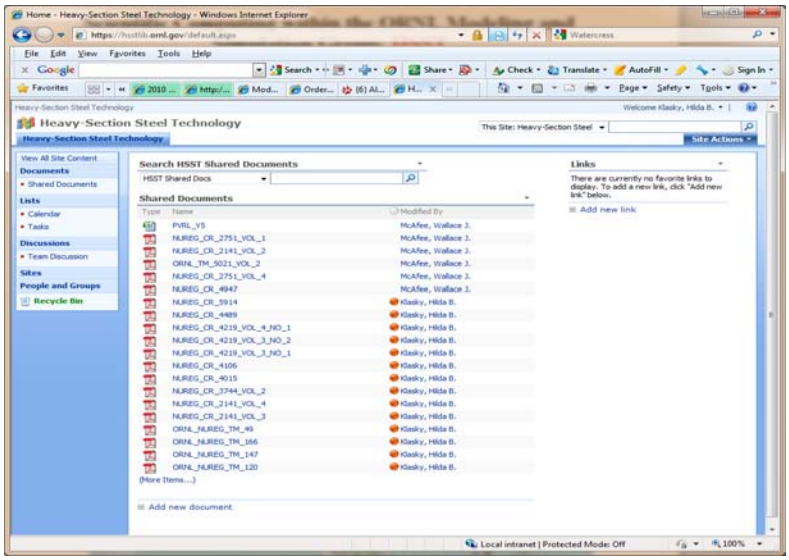
Modeling and Simulation Group

Heavy Section Steel Technology – HSST eLib

Computational Structural Fracture Mechanics Team

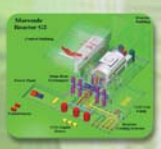
The ORNL Modeling and Simulation Group (MSG) develops sophisticated numerical solutions for a wide range of scientific, engineering, and operational applications. MSG's core competency is computational physics and engineering, and within our Computational Structural Fracture Mechanics Team we have been developing an electronic document repository library for research in the field of computational fracture mechanics applied to the Nuclear Technology arena.

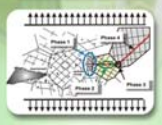
Main Characteristics



ORNL and NRC are jointly engaged in an effort to produce an effective knowledge retention system for ORNL's past 40 years of work for the U.S. NRC. The information is fundamental and remains very relevant to today's safety and regulation of nuclear power reactors. It is important that key documents for the program's pioneering experiments and developments be retained in a systematic fashion for future use. The goal of this project is scanning, cataloguing and archiving the reports generated by the Heavy-Section Steel Technology (HSST) program (JCN B0119) from the early 1970's through 2004. Procedures for granting members of the scientific community (external to ORNL) access to the HSST electronic library will be determined through discussions with the NRC.

MSG is uniquely positioned to address this challenge in that it provides a confluence of more than 40 years of work for the U.S. NRC. We welcome the opportunity to discuss your potential applications and ways that the ***Heavy-Section Steel Technology (HSST) Electronic Library*** can contribute to a solution.





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