DRAFT AGENDA

DEVELOPMENT OF PREDICTIVE MODELS OF NEUTRON IRRADIATION EMBRITTLEMENT IN REACTOR PRESSURE VESSEL STEELS TO SUPPORT EFFORTS ON NUCLEAR POWER PLANT LIFE EXTENSION

September 14-15, 2010

Venue:

The Legacy Hotel and Meeting Centre
1775 Rockville Pike
Rockville, Maryland 20852
Tel. (301) 881-2300
www.thelegacyrockville.com

Purpose of Meeting:

the objectives of the meeting are to establish a common appreciation among the participants of the current state of knowledge and the gaps therein, and to identify a series of next steps that can be taken to develop a participation agreement for data sharing among interested attendees.

August 14, 2010 – 9AM to 5PM

- Presentations concerning regulatory needs, industrial needs, currently available mechanical property data, currently available microstructural data, and the current understanding of the physical processes underlying the radiation damage of RPV steels.

Topic	Speaker
Mechanical data	Mark Kirk, NRC/RES
Microstructural data	Gracie Burke, Bettis
Physics of irradiation damage	Naoki Soneda, CRIEPI
Regulatory needs	to be determined
Industrial needs	to be determined

- Nationally and internationally, there are several on-going efforts to both assemble existing irradiation data, and to collect more data. A brief summary of efforts that are on-going or planned in Europe will be provided.

- As a starting point, the NRC and ORNL have begun to build an embrittlement database designed to hold information from surveillance capsule reports. Progress to date on this project will be summarized.

Topic	Speaker
Database aims and objectives	Mark Kirk, NRC/RES
Database structure	Mark Kirk, NRC/RES
Database source material	Gary Stevens, NRC/RES
Database hardware and software structure	Hilda Klasky, ORNL
Demonstration of α version of database	Hilda Klasky, ORNL

- Presentations proposed by others. Presentations have been offered on the following topics. Other presentations may be offered at the meeting. These presentations may also be made on the morning of September 15

Topic	Speaker
Different approaches to verify the consistency and reliability of surveillance test results	Enrico Lucon, NIST
JNES “PRE” project	Hiroshi Matsuzawa, JNES
CRIEPI test reactor irradiation and plans for future characterization of surveillance materials in Japan	Naoki Soneda, CRIEPI
ATR irradiations	Randy Nanstad, ORNL

August 15, 2010 – 9AM to 3PM

- This day has been reserved for discussions concerning the following topics
  - Interests of various organizations to participate in / add to the database.
  - Data entry and QA protocols
  - Data analysis protocols
  - Commitment by persons / organizations to serve on working groups
  - Other matters arising
  - List of actions for the discussion leaders to enable the drafting of a participation agreement.