

Generation IV Roadmap NERAC Subcommittee (GRNS) Meeting
March 7 - 8, 2001
Meeting Report

The GRNS met at the Forrestal Building, U.S. Department of Energy, Washington, DC, with DOE-NE officials, the Roadmap Integration Team, and Technical Working Group Co-chairs.

The next meeting of the GRNS is scheduled for May 30-31, 2001 in Boston.

Key Items Discussed:

- 1) **Technology Goals.** The Generation IV technology goals were reviewed, additional comments received and integrated by S. Levy (GRNS Co-chair), and a final version prepared that was agreed to by GRNS. It will be forwarded to the full NERAC for review and approval.
- 2) **Near Term Deployment Working Group (NTDG) activities.** A Request for Information (RFI) is being prepared by the Working Group to solicit for near term deployment gap identification and analysis and for scope determinations of nuclear system designs that may qualify for near term deployment. One consolidated RFI would be issued to all interested parties, to include NSSS vendors, A/Es and interested Owner/Operator organizations. The RFI will be posted on the Internet at the DOE-NE Generation IV web site. The report of this Working Group, due in September 2001, will be provided to all other technical working groups.
- 3) **Evaluation Methodologies Working Group (EMG).** The current status of development of criteria and metrics for each of the Generation IV technology goals was reviewed. The process for TWGs to apply these metrics to evaluate various concepts was also reviewed. The full set of criteria and metrics are to be distributed to the TWGs for review and comment March 16, with comments due back to the EMG March 30. An update with justifications for each metric will be provided to the TWGs by the next TWG meeting in May
- 4) **Fuel Cycle Cross-cutting Group (FCCG) issues.** D. Wade (Argonne National Laboratory) presented the current status of the FCCG activities. The charter of the FCCG calls for examination of fuel resource inputs and waste outputs for the range of potential Generation IV fuel cycles, consistent with projected energy demand scenarios. The span of fuel cycles will include currently deployed and proposed fuel cycles based on uranium and/or thorium. For each fuel cycle, the FCCG will characterize its attributes and develop a set of fuel cycle related metrics against the Generation IV technology goals/criteria. These will be reported to the RIT and TWGs in May.

- 5) **Bridging the gap between near-term activities and long-term roadmap.** A discussion on this topic resulted in agreement that the TWGs have expertise that the NTDG can call upon to assist in its evaluation activities as requested, and that concepts which appear to be near-term but are really longer-term (beyond 2010) can be passed from the NTDG to a TWG for further analysis. Public involvement was also discussed as a key element in moving forward. W. Magwood stated that DOE would take the lead in exploring the creation of a forum (one time or multiple meetings) to be led by an industrial organization.

- 6) **Preparations for Generation IV International Forum (GIF) meeting March 14-16, 2001 in Paris.** The schedule, presentations, and expectations for the upcoming GIF meeting were discussed.