

NRC/NEI Meeting

“Managing Fire Protection Issues”

NRC Headquarters

August 21, 2003

**Discussion of Agenda Item 9.e,
“Prioritization/consideration of Hemyc/fire barriers”**

**Presented by Roy Woods
RES/DRAA/PRAB**

Background

- **Draft Program Plan (Rev. 3) Issued July 19, 2002
(Publically Available on ADAMS at ML022280394)**
- **Public Meeting Held October 31, 2002 for Comment on Draft Program Plan**
- **Summary of Oct. 31 Meeting Issued November 22, 2002
(Publically Available on ADAMS at ML023290516)**
- **Written Comments from NEI December 6, 2002
(Publically Available on ADAMS at ML030080608)**
- **“Final” Program Plan Issued January 16, 2003 (includes consideration of
comments, plus an Appendix with “Research Program Considerations”)
(Publically Available on ADAMS at ML030080582)**

RES' Plans

- **Transferred by Jan. 22, 2003 Memorandum from John N. Hannon, NRR, to Mark C. Cunningham, RES, with request to inform NRR of any significant changes in plans, and upon completion of testing to provide NRR with a recommendation and supporting technical basis regarding whether further regulatory action is warranted**
- **RES intends to use the “Final” Program Plan as the basis for an RFP to SNL (to be issued as soon as possible considering availability of FY'04 funds)**
- **Once contract in place, SNL will seek bids for construction of test assemblies and conduct of tests**
- **RES anticipates tests' completion within 21 months of contract initiation with SNL**

Present Disposition of NEI Comments in the “Final” Program Plan

NEI Comment	Present Disposition
RG 1.189 not applicable to utilities with installed Hemyc	Used only to set spacing of thermocouples for tests
Provide details of how test assemblies were selected (e.g., items of larger thermal mass bounded by tests)	Made more clear in revision
Discussion of how test results will be used regarding previously accepted installations	Added statement that test results “may form the technical basis for broad acceptance ... or ... enforcement action or backfit requirements, as deemed appropriate”
Development of mathematical model	Planned (Appendix, 1 st item)
Use American Nuclear Insurers (ANI) test acceptance criteria for some tests	Useful, but may not be cost effective for planned program (Appendix, 2 nd item)
Multiple wrap thicknesses	Useful, but may not be cost effective for planned program (Appendix, 3 rd item)
Construction and test plan	Many requested changes included (e.g., 24” & 36” trays, unistrut, angle iron, larger box & wire) (Appendix, 4th item)
Industry should comment on detailed construction & test plan, observe tests, etc.	Planned, affected schedule

Plan Forward

Milestone	Elapsed Time (Months)
Contract in place with SNL for conduct of fire barrier testing	0
Work with NRC to finalize modifications to test plan (e.g., to include mathematical modeling, any other research objectives, and opportunities for feedback, comments, public meeting(s) with industry)	2
Develop detailed construction plan for specimens to be tested	5
Submit test and construction plans to NRR and industry (public meeting) for comments	6
Generate Request for Proposal (RFP) and publish	7
Proposals received	8
Evaluate proposals, select successful proposal, place contract	9
Construction of test specimens	13
Perform tests	14
Analyze data	17
Issue Draft report for comment (RES, NRR)	18.5
Receive comments	20
Finalize and issue report	21

