

ROUTING AND TRANSMITTAL SLIP

Date: October 24, 2002

NAME	INITIALS	DATE
KGruss		10/ 28/2002
EEaston		10/ 28 /2002

ACTION: ☒ APPROVAL: ☐ FOR YOUR INFO: ☐
 NOTE & RETURN: ☐ PREPARE REPLY: ☐ COORDINATION: ☐

EDO/NMSS TICKET NO(s):
 DUE TO DIVISION: 10/30/02
 DUE TO NMSS:
 DUE TO EDO:
 DUE TO OCM:

MEMORANDUM TO: Charles L. Miller and M. Wayne Hodges

FROM Kimberly Ann Gruss

SUBJECT: SUMMARY OF MEETING WITH ELECTRIC POWER RESEARCH
 INSTITUTE ON CLADDING INTEGRITY UNDER TRANSPORTATION
 ACCIDENTS

REMARKS: K. Gruss, A. Machiels, and J. Rashid presentations are in the folder
 g:\kimgruss\tech stuff\NEI Meetings\102302 mtg

ORIGINATOR: Kim Gruss PHONE: 415-8586
 SECRETARY: J. Hennigan PHONE: 415-8551

October 28, 2002

MEMORANDUM TO: Charles L. Miller, Deputy Director
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

M. Wayne Hodges, Deputy Director
Technical Review Directorate
Spent Fuel Project Office, NMSS

THRU: Earl P. Easton, Chief /RA/
Technical Review Section A
Spent Fuel Project Office, NMSS

FROM: Kimberly A. Gruss, Sr. Materials Engineer /RA/
Technical Review Section A
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF MEETING WITH ELECTRIC POWER RESEARCH
INSTITUTE ON CLADDING INTEGRITY UNDER TRANSPORTATION
ACCIDENTS

On October 23, 2002, representatives from the U.S. Nuclear Regulatory Commission's (NRC) Spent Fuel Project Office (SFPO), the Electric Power Research Institute (EPRI), Anatech and industry attended a meeting to discuss technical issues associated with the transportation of high burnup spent fuel. This was a working level meeting consisting of technical discussion on models and methods that could be used evaluate the response of spent fuel cladding to transportation accident scenarios. This meeting was held to respond to Requests for Additional Information that were issued to NEI on April 17, 2002 as they pertain to transportation accidents.

Staff and EPRI representatives led the discussion by identifying the major technical issues. A representative from Anatech presented an overall approach to address those issues which consisted of various analytical models and a failure criterion. It is expected that one of the outcomes of the analysis would be an estimate of the spent fuel rod failure probability under hypothetical accident conditions.

In the next several weeks, staff will send the Nuclear Energy Institute and EPRI a letter that will provide feedback on the proposed approach.

Attachment 1 contains a list of meeting participants. Attachment 2 contains the meeting agenda. Attachment 3, 4 and 5 contain the slides used by the presenters.

Attachments: 1. List of Meeting Participants
2. Meeting Agenda
3. NRC Staff Presentation Slides
4. EPRI and Anatech Presentation Slides

MEMORANDUM TO: Charles L. Miller, Deputy Director
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

M. Wayne Hodges, Deputy Director
Technical Review Directorate
Spent Fuel Project Office, NMSS

THRU: Earl P. Easton, Chief /RA/
Technical Review Section A
Spent Fuel Project Office, NMSS

FROM: Kimberly A. Gruss, Sr. Materials Engineer /RA/
Technical Review Section A
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF MEETING WITH NUCLEAR ENERGY INSTITUTE ON
CLADDING INTEGRITY UNDER TRANSPORTATION ACCIDENTS

On October 23, 2002, representatives from the U.S. Nuclear Regulatory Commission's (NRC) Spent Fuel Project Office (SFPO), the Electric Power Research Institute (EPRI), Anatech and industry attended a meeting to discuss technical issues associated with the transportation of high burnup spent fuel. This was a working level meeting consisting of technical discussion on models and methods that could be used evaluate the response of spent fuel cladding to transportation accident scenarios. This meeting was held to respond to Requests for Additional Information that were issued to NEI on April 17, 2002 as they pertain to transportation accidents.

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SGagner, OPA Rtemp NRC (non-SFPO attendees via e-mail)

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OFC:	SFPO	E	SFPO	N						
NAME:	KGruss		EEaston							
DATE:	10/ 28 /02		10/ 28 /02							

OFFICIAL RECORD COPY

Attachment 1

October 23, 2002 NRC Meeting with EPRI/Industry

Attendance List

NAME	ORGANIZATION	Phone #
Kim Gruss	NRC/NMSS/SFPO	301-415-8586
Wayne Hodges	NRC/NMSS/SFPO	301-415-2398
Ken Erwin	NRC/NMSS/SFPO	301-415-2443
David Tang	NRC/NMSS/SFPO	301-415-8535
Henry Lee	NRC/NMSS/SFPO	301-415-8533
Daniel Huang	NRC/NMSS/SFPO	301-415-3381
Jack Guttman	NRC/NMSS/SFPO	301-415-8510
Gordon Bjorkman	NRC/NMSS/SFPO	301-415-1911
Mahendra Shah	NRC/NMSS/SFPO	301-415-8537
Charles Interrante	NRC/NMSS/SFPO	301-415-3967
Bob Shewmaker	NRC/NMSS/SFPO	301-415-2842
Christopher Tripp	NRC/NMSS/SFPO	301-415-7733
Andrew Barto	NRC/NMSS/SFPO	301-415-3082
Doug Kalinousky	NRC/RES	301-415-6788
Cayetano Santos	NRC/RES	301-415-6004
Harold Scott	NRC/RES	301-415-6771
Undine Shoop	NRC/NRR	301-415-2063
Ralph Caruso	NRC/NRR	301-415-1813
Harold Adkins	PNNL	509-372-6629
Tom Michener	PNNL	509-375-2162
Andrea Jenetta	WNC/Fuel Publications	202-546-9424
Maureen Conley	Platts/McGraw-Hill	301-933-9008
Albert Machiels	EPRI	650-855-2054
Joe Rashid	Anatech	858-455-6350
Brian Gutherman	Holtec	856-797-0900
Robert Kunita	Progress Energy	919-546-2709
Matt Eyre	Exelon Nuclear	610-765-5825

Attachment 2

October 23, 2002 NRC Meeting with EPRI/Industry

MEETING AGENDA

- 9:00 - 9:15 Introductions
- 9:15- 9:45 Definition/Identification of transportation issues (K. Gruss, NRC; A. Machiels, EPRI)
- 9:45-11:00 Industry presentation on proposed analysis to address cladding response to transport accident (J. Rashid, Anatech)
- 11:00-11:15 Break
- 11:15-12:00 Industry presentation on proposed analysis to address cladding response to transport accident (J. Rashid, Anatech)
- 12:00-1:15 Lunch
- 1:15-3:00 Industry Presentation (cont'd)
NRC feedback on industry presentation