

May 12, 2000

MEMORANDUM TO: Steven E. Mays, Assistant Chief
Operating Experience Risk Analysis Branch
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

FROM: Patrick D. O'Reilly /RA/
Operating Experience Risk Analysis Branch
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF EIGHTH MEETING OF SPAR MODEL USERS GROUP

The eighth meeting of the Standardized Plant Analysis Risk (SPAR) Model Users Group (SMUG) was held at 9:30 a.m. on April 26, 2000 at NRC Headquarters. One of the regional SRAs (T. Shedlosky, RGN-1) participated in the meeting. Attachment 1 is the list of meeting participants. Attachment 2 contains the meeting agenda.

SIGNIFICANT POINTS OF DISCUSSION

- The meeting discussion focused on the draft plans for development of models - (1) Level 1, Revision 3i SPAR Models, (2) Level2/LERF models, (3) low power/shutdown models, (4) external events models, (5) the priority for each of these models, and (6) the schedule for completion of these plans and approval of the plans by the SMUG and the cognizant management of the participating organizations.
- The users' models requirements section of the draft plan was revised to indicate the relationship between each use and the pertinent strategic goal of the agency and was distributed to the meeting participants.
- OERAB noted that no comments on any of the sections of the draft model development plan had been received since the March meeting. Any SMUG member who had not sent in their specific comments was urged to do so by May 3 (one member requested an extension to the April 28 deadline for comments).
- From the responses received from each of the SMUG members' organizations, the following model development priorities were indicated (ranked in order, with the highest priority model first) : (1) Level 1, Revision 3 SPAR Models, (2) Low Power/Shutdown Models, (3) Tie - LERF Models, Level 2 Models, External Events Models. The outcome observed for Item 3 was due to each organization specifying either LERF Models or Level 2 Models, but not both, in their response, thereby separating what could be considered one effort into two distinct projects.

- OERAB announced that the schedule for completing a draft integrated plan for model development has been revised from previously published schedules. Current plans call for a draft of the plan to be completed and an advance copy ready for transmittal to the SMUG members in mid-May. After a reasonable period for review/comment by the SMUG members, the revised plan would then be transmitted to the management of the cognizant organizations for approval/buy in. This should take place in early June.
- Key NRR and RES staff and INEEL met on April 25 to discuss current low power/shutdown analysis capability, staff needs in this area, and plans for development of a specification/ prototype template for low power shutdown models. The SMUG members will be provided a copy of the meeting summary when it is issued.

OTHER ITEMS

- Since the last SMUG meeting, OERAB (P. O'Reilly) and INEEL have participated in two meetings with licensees involving the review of the Significance Determination Process (SDP) notebooks for the Grand Gulf and the WNP-2 plants. Although both meetings consisted of the Revision 3 SPAR model review piggybacking on the SDP notebook review, in the case of WNP-2, an extra day was available to review the SPAR model in more detail. As a result, the event trees and the success criteria for the Grand Gulf and the WNP-2 models were given a fairly thorough review. However, because of the extra day spent on the WNP-2 model, more detailed discussion about the event trees, systems modeling, and sequence recovery measures was possible. In addition, the WNP-2 licensee is reviewing the system fault trees in detail and will provide comments when their review is completed. Both licensees will formally request a copy of the Revision 3 SPAR model for their plant.
- In summary, the one-day piggyback meeting with the licensee is of limited benefit to SPAR Model QA because of time limitations. For those cases, an additional onsite review to examine the systems and human performance modeling is necessary.

NEXT MEETING

Tentative date for the next meeting was selected as May 31, 2000.

ACTION ITEMS:

MEMBERS

- Those members who have not yet done so will review the draft SPAR model development plans for the LERF/Level 2 models, External Events Methodology and Low Power/Shutdown models and provide comments to OERAB. **Due date: May 5, 2000.**

OERAB

- OERAB will complete a draft integrated model development plan and provide an advance copy to SMUG members for review/comment. **Due date: May 17, 2000.**
- OERAB will revise integrated model development plan as necessary to address comments received from final review by SMUG members and submit final plan to management of the cognizant organizations for approval/buy in. **Due date: May 31, 2000.**

Attachments: As stated

cc: On following page

MEMORANDUM DATED: 05/12/00

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cc: R. Barrett
S. Bahadur
M. Cunningham
W. Dean
L. Marsh
J. Rosenthal
W. Lanning, Region I
C. Casto, Region II
J. Grobe, Region III
A. Howell, Region IV
T. King, RES/DRAA
M. Federline, RES
A. Thadani, RES
H. Hamzehee, w/att.
I. Jung, w/att.
J. Trapp, Region I, w/att.
S. Burgess, Region III, w/att.
M. Sattison, INEEL, w/att.

SMUG MEMBERS, all w/att.

R. Bernhard, Region II
D. Coe
W. Jones, Region IV
D. Marksberry
M. Marshall
D. O'Neal
M. Parker, Region III
J. Ridgely
J. Shedlosky, Region I
D. Skeen
H. VanderMolen

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NAME	P O'Reilly		S Mays		P Baranowsky	
DATE	05 /4/00		05 /8/00		05 /9/00	

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SMUG MEETING APRIL 26, 2000

PARTICIPANTS

ORGANIZATION

RES/DRAA/OERAB
RES/DRAA/OERAB
NRR/DIPM/IIPB
RES/DRAA/PRAB
RES/DSARE/REAHFB
RGN-I

MEMBERS

Pat O'Reilly
Don Marksberry
Doug Coe
John Ridgeley
Harold Vandermolen
Tom Shedlosky (phone*)

*NOTE: Phone = PARTICIPATED BY TELECONFERENCE

SPAR MODEL USERS GROUP (SMUG) MEETING AGENDA

**April 26, 2000; 9:30AM to 11:30AM EDT
Conference Room: T- 4B3**

K) STATUS OF ACTION ITEMS FROM PREVIOUS MEETING

MEMBERS

- Those members who have not yet done so will review the draft SPAR model development plans for the LERF/Level 2 models, External Events Methodology and Low Power/Shutdown models and provide comments to OERAB.

OERAB

- OERAB will revise the draft User Requirements for SPAR Models to provide specific examples of how the SPAR models are used by a given organization.
- OERAB will revise the Level 1, Revision 3 SPAR Model Onsite QA/Review Plan to explicitly identify the criteria to be used to determine the acceptability of the constituent parts of the model.

13) DISCUSS THE FOLLOWING:

- 1) LEVEL 1, REV 3 MODEL PLAN AND QA / REVIEW PROCESS
- 2) LOW POWER SHUTDOWN MODEL PLAN
- 3) PLAN FOR DEVELOPMENT OF LERF/LEVEL 2 SPAR MODELS
- 4) PLAN FOR DEVELOPMENT OF EXTERNAL EVENTS METHODOLOGY
- 5) PLANS FOR IMPROVING TIMELINESS OF ASP ANALYSES
- 6) PARTICIPATION IN ONSITE REVIEW OF SDP NOTEBOOKS
- 7) NRR USERS NEED MEMO OF MARCH 17, 2000

N) IDENTIFY DATE FOR NEXT MEETING; AGENDA ITEMS

ROUTING AND TRANSMITTAL SLIP					Date 5/2/00	
TO: (Name, office symbol, room #, building, agency/post)					Initials	Date
1. P. O'Reilly - Concur/Signature						
2. S. Mays - Concur						
3. P. Baranowsky - Concur						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
	Action		File		Note and Return	
	Approval		For Clearance		Per Conversation	
	As Requested		For Correction		Prepare Reply	
	Circulate		For Your Information		See Me	
	Comment		Investigate	X	Concurrence/Signature	
	Coordination		Justify			
REMARKS Summary of Eighth Meeting of SPAR Model Users Group.						
FROM: (Name, org. symbol, Agency/Post)					Room # - Bldg.	
					Phone #	

