

From: Tarsha Wall *NER*
To: Weerakkody, Sunil
Date: 7/2/03 9:02AM
Subject: SUMMARY OF June PROTECTION CONFERENCE CALL WITH REGIONS.

Dated: July 1, 2003

To: Sunil Weerakkody

From: Mark Salley

Subject: SUMMARY OF June PROTECTION CONFERENCE CALL WITH REGIONS.

ML031820122

CC: Bhatia, Ram; Black, Suzanne; Cahill, Christopher; Daley, Michael; Fanner, Rodney; Frumkin, Daniel; Fuhrmeister, Roy; Hannon, John; IQBAL, Naeem; Johnson, Clay; Koltay, Peter; Lain, Paul; Langstaff, Ronald; Linville, James; Mensah, Tanya; Merriweather, Norman; Mullikin, Ray; Nease, Rebecca; Ogle, Charles R.; Oudinot, Daniele; Payne, Charlie; Qualls, Phil; Rodriguez, Rafael; Salley, Mark; Taylor, James; Thomas, McKenzie; Velazquez-Lozada, Alexander; Walker, Sandra; West, Steven; Wiseman, Gerald; Young, Ron

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22-7

July 1, 2003

MEMORANDUM TO: Sunil Weerakkody, Chief
Fire Protection Engineering and Special Projects Section
Plant Systems Branch
Division of Systems Safety and Analysis

FROM: Mark Henry Salley, Fire Protection Engineer/RA/
Fire Protection Engineering and Special Projects Section
Plant Systems Branch
Division of Systems Safety and Analysis

SUBJECT: SUMMARY OF JUNE FIRE PROTECTION CONFERENCE CALL WITH
REGIONS

On June 4, 2003, the Fire Protection Engineering and Special Projects Section Chief, Sunil Weerakkody, and the staff held their monthly fire protection conference call with the regions. The representatives from the regions participating in the call were: James Linville, Christopher Cahill and Ram Bhatia from Region I; Charlie Payne, Gerry Wiseman, Reinaldo Rodriguez, Rodney Fanner, Shakur Walker, Norman Merriweather, Necota Staples, and McKenzie Thomas from Region II; Ronald Langstaff from Region III; and Claude Johnson, Raymond Mullikin, and Joseph Taylor from Region IV. Engineers from NRR included, Daniel Frumkin, Naeem Iqbal, Peter Koltay, Paul Lain, Daniele Oudinot, Phil Qualls, Mark Salley and Alexander Velasquez. The minutes of the meeting are attached.

Please contact Daniele Oudinot on 415-3731, or Mark Salley on 415-2840 if you require any additional information.

Attachment: As stated

ML 031820122 (NPA)

July 1, 2003

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Attachment: As stated

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Meeting Minutes

1. Progress on the RIS and associated circuit inspection criteria (Mark Salley)

The draft Regulatory Information Summary (RIS) is in concurrence. The inspection criteria guidance for the resumption of risk-informed associated circuits inspection is attached to the RIS. After concurrence is obtained, the package will be published in the Federal Register for a 30-day comment period. Mark reiterated his request for regional comments on the RIS and Sunil stated that the regional management should be made aware of the need for regional comments on the RIS.

2. Update on training for resumption of associated circuits inspection (Mark Salley)

Mark confirmed that the NRC inspector training workshop for associated circuits is scheduled for September 3, and 4, 2003, at headquarters. Even though Ken Sullivan and Steve Nowlen will be unable to participate in the training, the staff plans to ask them to assist in the preparation of the training package. The regions and the staff also agreed on a tentative schedule for a public meeting on the risk-informed associated circuits inspection procedures with stakeholders to be held at headquarters on October 15-16, 2003.

3. NIST testing for validation of fire models (Naeem Iqbal)

Naeem summarized the fire modeling testing Office of Research is performing at the National Institute of Standards and Technology (NIST). RES is planning a first series of fifteen full-scale tests ranging from 350 kW to 2 MW. RES is planning to perform additional fire tests on more complex configurations in 2004/2005.

Additional information on the testing (not discussed during the conference call) is provided in Attachment 2.

4. NFPA 805 Update (Paul Lain)

The staff is completing the resolution of OGC comments. The staff met with management to discuss NEI's methodology for changing the fundamental fire protection program and minimum design requirements of Chapter 3 of NFPA 805. [REDACTED]

[REDACTED] EPRI is planning another pilot exercise for July 2003 at McGuire. This portion of the exercise will deal with fire modeling. Mark Salley and Moni Dey (RES) will attend. Ex-5

5. SDP Update (Dan Frumkin)

A draft revised fire protection SDP is scheduled to be available in October, simultaneous with the lifting of the EGM. Planned table top exercises will be completed by May 2004. The SDP will not provide guidance for addressing plant-wide findings in the areas of associated circuits, fire water, and fire brigade. Sunil Weerakkody stated that, given that the SDP will not provide guidance for addressing plant wide associated circuits findings, SPLB will work to ensure there is a method to address these findings when the EGM is lifted.

6. Manual Actions Update (Phil Qualls)

The staff has incorporated all the comments and the draft rulemaking is in the concurrence chain to the Commission. The staff anticipates that it will take approximately 6 months for the SRM to be issued. Some questions were asked about ensuring plant safety until rulemaking is complete.

7. Hemyc Fire Barrier Update (Dan Frumkin)

RES plans to start the Hemyc fire barrier tests in FY 2004 with testing scheduled to last 18 months. The existing testing does not bound all Hemyc configurations currently installed. Additional information (not discussed during the conference call) is provided in Attachment 3.

8. Associated Circuit Inspection Criteria - Regional Comments (Sunil Weerakkody)

The regions have been given the opportunity to comment on the associated circuit inspection criteria. The regions stated that there is a need to develop interim guidance on how to address current findings/open items and how to evaluate findings when inspection of associated circuits resume. The September training session should have adequate guidance developed to address this issue.

9. Post-Fire Safe Shutdown Circuit Analysis NUREG - Regional Comments (Sunil Weerakkody)

The regions will be given the opportunity to comment on the Post-Fire Safe-Shutdown NUREG regarding FSSD circuit analysis and also on NEI 00-01. Any regional comments should be forwarded to Mark Salley.

10. Combustible Loading Findings (Gerry Wiseman - RII)

Gerry Wiseman reported that, for some plants in Region II, the original fire hazard analysis (licensing basis) did not include the total combustible loading within some fire areas.

[REDACTED] The licensee's in situ fire loading calculations for the fire hazards analysis (FHA) excluded significant combustible material and cabling internal to Switchgear (SWGR) and motor control center (MCC) cabinets. The FHA only included cables and cable trays.

[REDACTED] The staff agreed that the impact of every modification on the total combustible loading should be evaluated and, in turn, reflected in the fire hazard analysis. Also NRR staff (M. Salley) requested that the inspection teams in all regions review for this condition so NRC might evaluate whether this is a generic condition.

11. The first Wednesday of July will fall on a holiday-shortened week. In order to have the maximum participation, the call will be held on the second Wednesday, July 9, 2003.

RES Fire Test Program Additional Information

RES initiated fire modeling research in 1999 as a part of the NRC fire risk program. The purpose of this research is to support risk-informed and performance-based approaches to fire regulation in nuclear power plants requires the use of computer models and analytical methods to predict a wide range of fire conditions.

The first series of fifteen full-scale fire experiments are being conducted for the validation of first blind exercise at NIST. The results of first benchmark and validation exercise will provide a certain degree of confidence in the current fire modeling programs through comparisons with experimental data. The second test series of experiments to be conducted in 2004, will use the compartment of the first test series divided with the half walls to be more representative of nuclear power plant compartment. The third test series of experiments, to be conducted in 2005, will again use the same compartment but include variation from earlier exercises to focus on specific issues that are determined from the first two exercises. Fire detection issues may be examined in the latter half of the test program.

RES will provide a review guidance document for fire models to be use to implement NFPA 805 rule and use for fire PRAs for various licensing actions. The RES efforts will provide a list of acceptable fire models to be used for fire modeling calculations to implement NFPA 805 rule. Overall this research will provide NRR to determine acceptability of licensee fire modeling calculations, whether a licensee meet the fire modeling requirements in Section 2.4.1 of NFPA 805 standard.

Contact Naeem Iqbal for additional information.

Additional Hemyc Guidance

Guidance for Evaluating Bounding Configurations for Hemyc Installations:

Installed trays and conduits that are smaller than tested assemblies of same type are not bounded. Installed less massive trays and conduits are not bounded by more massive assemblies of the same type.

Smallest Conduit Tested - 4 inch diameter - with at least 1-300 MCM cable plus assorted control/instrument cables.

Smallest Cable Tray Tested - 12" wide tray - with at least 2-300 MCM cables plus assorted control/instrument cables.

If the sizes of the conduits is smaller than tested and/or the fill is less than tested, the existing testing will not bound the installed configurations. There may be other combinations of sizes and fills that would not be bounded, but establishing bounding criteria may be more complicated. (Information from CTP-1026, Hemyc Fire Test, June 1, 1982.)

Contact, Phil Qualls or Dan Frumkin with questions regarding this guidance.

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Creation Date: 7/2/03 9:02AM
From: Tarsha Wall
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MXS3 CC (Salley, Mark)

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 PMQ CC (Qualls, Phil)
 RCJ2 CC (Johnson, Clay)
 RMY CC (Young, Ron)
 SCB CC (Black, Suzanne)
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