May 29, 2008

MEMORANDUM TO: Alexander R. Klein, Chief
Fire Protection Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

FROM: Robert Vettori, Fire Protection Engineer/**RA/**
Fire Protection Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MAY 7, 2008, CATEGORY 2 MEETING ON FIRE INDUCED CIRCUIT FAILURES

On May 7, 2008, the U.S. Nuclear Regulatory Commission (NRC) held a meeting with the Nuclear Energy Institute (NEI) staff, industry stakeholders, and the public to discuss the status and NRC staff views of the NEI method for resolution of the fire induced circuit failures issue. An attendance list and meeting agenda are provided in Enclosures 1 and 2 respectively and are attached to this summary.

The NEI approach for the resolution of fire induced circuit failures is provided in the presentation slides dated May 7, 2008, and is available in the Agencywide Documents Access and Management System (ADAMS) Accession Number ML081290439.

Some highlights of the discussions during the meeting were:

The NEI believes that the NRC approach for resolution of fire induced circuit failures presented at a March 27, 2008, pubic meeting appears consistent with current deterministic regulations and guidance; and appears to be workable. The meeting summary from the March 27 public meeting is available in ADAMS Accession Number ML081060550 and the presentation slides describing the NRC approach is available in ADAMS Accession Number ML080920662.

There were several technical issues brought up during the meeting regarding differing approaches with respect to diversion paths, identification of needed process monitoring equipment, associated circuits, common enclosures, and power supplies.

The NEI does not believe that addressing Title 10 of the *Code of Federal Regulations* Part 50, Appendix R, Section III.G.3 (III.G.3) areas will be an issue if the plant safety evaluation report is considered valid for III.G.3 areas. The NEI is considering a voluntary effort to assess vulnerabilities approved under III.G.3.

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The following action items for the NRC were discussed:

1. Deliver a clearly defined method of compliance for licensees who do not choose to utilize the risk-informed approach contained in Title 10 of the *Code of Federal Regulations* Part 50, Section 48(c) to the Commission in June 2008.
2. Review the sections of NEI 00-01 Revision 2 "Guidance for Post-Fire Safe Shutdown Circuit Analysis", pertaining to fire modeling and focused scope Fire Probabilistic Risk Assessment. NEI 00-01, Revision 2 is available in ADAMS Accession Number ML080310056.
3. Evaluate the NEI's comments on the NRC approach.

The following action items for the NEI were discussed:

1. Revise NEI 00-01, Revision 2 to incorporate the NRC approach.
2. Work on electrical application of the NRC approach on topics such as associated circuits, common enclosures, and power supplies.
3. Begin work on exercising the NRC approach. The Boiling Water Reactors Owners Group may be able to exercise the method at a plant site.

Enclosures
As stated

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DATE:	5/ 19 /08	5/ 19/08	5/29 /08

Fire Induced Circuit Failure Meeting with the Nuclear Energy Institute
Public Meeting
May 7, 2008
Marriott Residence Inn
7335 Wisconsin Avenue
Bethesda, MD 20814
List of Attendees

NRC STAFF
A. Klein
D. Frumkin
R. Radlinski
H. Barrett
R. Gallucci
R. Vettori
M. Salley
G. Taylor

OTHER

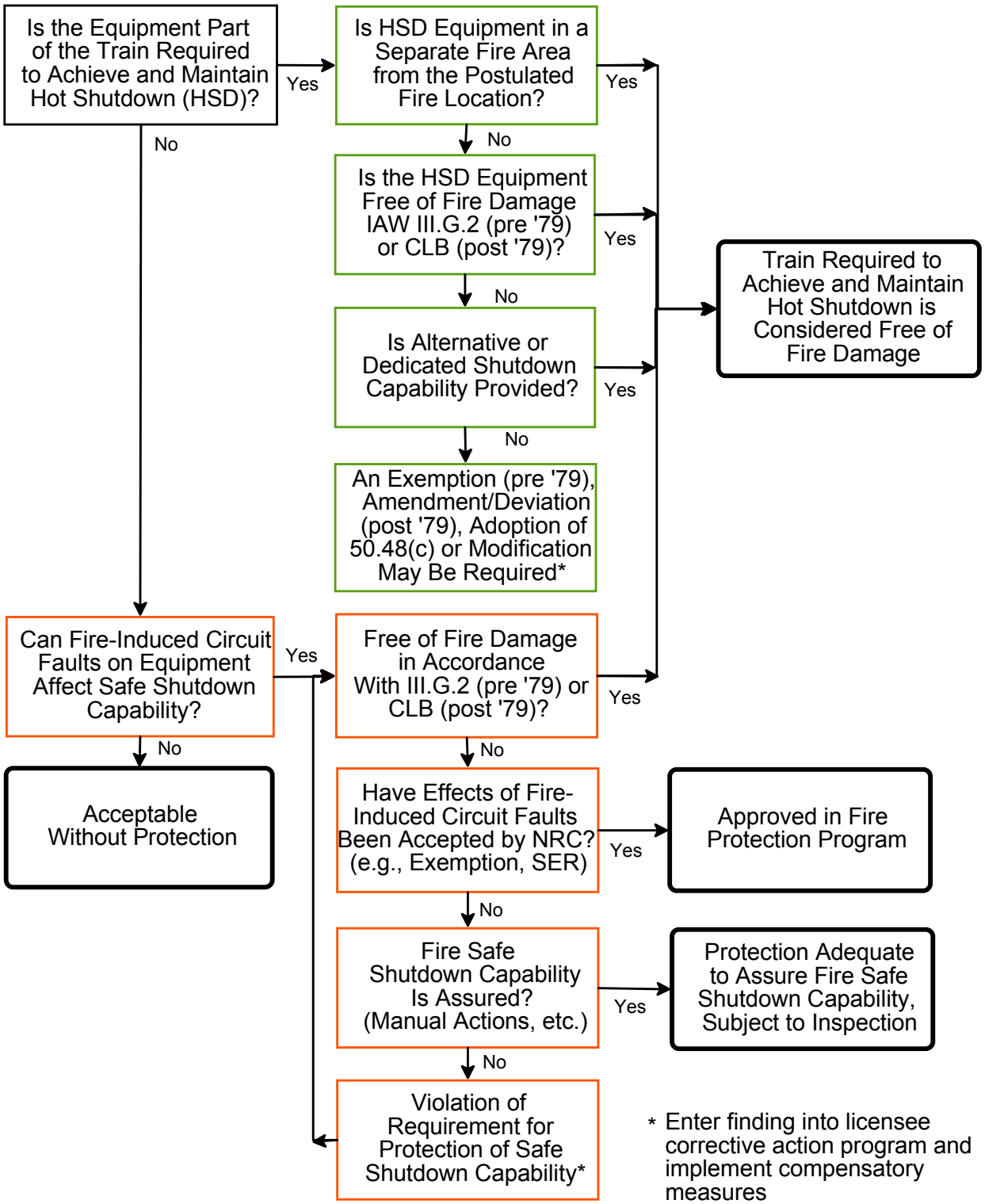
B. Najafi	Science Applications Int. Corp for Electric Power Research Institute
C. Worrell	Pressurized Water Reactors Owners Group - Westinghouse
D. Henneke	General Electric Hitachi
T. Gorman	PPL Susquehanna
C. Pragman	Exelon Nuclear
J. Riley	Nuclear Energy Institute
V. Rubano	Florida Power and Light
A. Robinson	Tennessee Valley Authority
P. Gunter	Beyond Nuclear
D. Raleigh	LIS Scientech
S. Sauar	Public Service Enterprise Group
D. Shumaker	Public Service Enterprise Group
S. Hardy*	Progress Energy
F. Meister*	Tri-En Corporation
D. Garbe*	Wolf Creek NOC
F. Wyant*	Sandia National Laboratories
N. Chapman*	Bechtel Power Corp.

* participated via phone

ENCLOSURE 1

Fire Induced Circuit Failure Meeting with the Nuclear Energy Institute
Public Meeting
May 7, 2008
Marriott Residence Inn
7335 Wisconsin Avenue
Bethesda, MD 20814
Agenda

To discuss applications of the NRC staff's approach for resolution of fire induced circuit failures with the Nuclear Energy Institute (NEI) and their stakeholders.

8:30 a.m.	Introduction and meeting focus
8:40 a.m.	Discussion with stakeholders regarding applying the NRC approach for resolution of fire induced circuit failures to generic plant configurations. See ADAMS Accession No. ML080920662 for the NRC staff presentation on this topic from the March 27, 2008, public meeting. A flow chart is included which provides more information regarding the application of the NRC approach.
11:45 a.m.	Public comments
12:00 noon	Adjournment

Fire-Induced Circuit Failure Compliance Flow Chart