

September 20, 2001

MEMORANDUM TO: Stuart A. Richards, Director
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Jack Cushing, Project Manager, Section 2 /RA/
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MEETING HELD ON APRIL 10, 2001, WITH
WESTINGHOUSE ELECTRIC REGARDING THE STAGGERED
ENGINEERED SAFETY FEATURES (ESF) TESTING

On April 10, 2001, the staff held a public meeting with Westinghouse at the Nuclear Regulatory Commission (NRC) headquarters in Rockville, Maryland. The purpose of this meeting was for Westinghouse to present an overview of a proposed topical report (TR) that will provide the technical basis to extend the integrated ESF testing from both trains being tested each refueling outage to one train being tested each refueling outage. Attachment 1 lists the meeting participants. The slides are available in ADAMS under accession number ML0110150.

Westinghouse commenced the meeting by discussing the concept for the TR. It is Westinghouse's belief that current surveillances at the component level test equipment sufficiently to verify the operability of the equipment. The integrated ESF testing does not result in identifying equipment failures that would not be identified at the component testing level. In addition, one train would still be tested in an integrated fashion.

The TR would be applicable to all Combustion Engineering plants when supported by plant specific review and analyses. The TR will use a risk-informed approach to demonstrate that any change in risk will be negligible when increasing the surveillance frequency from every refueling outage to every other refueling outage. All integrated ESF testing, including loss of power (LOP), will be reviewed for inclusion in the TR.

The staff asked if the TR would include historical test data, including test failures with causes and analysis to determine if the failure could have been found by a component level test. The staff also asked that the TR address the actions that would be taken if the integrated ESF test failed.

Westinghouse then identified the major tasks involved in developing the TR. These tasks include:

- identifying all equipment covered by the integrated ESF test at each participating plant;
- developing a matrix of all equipment tested by the integrated ESF test versus all other operability tests performed on the same equipment;

- identifying all equipment where the integrated test is the sole operability test;
- evaluating test and failure data for equipment;
- performing a reliability analyses on equipment;
- performing risk calculations and sensitivity studies; and
- identifying possible options and compensatory measures needed to justify change.

Westinghouse plans to submit the TR and the technical specification task force (TSTF) traveler for review in April 2002. The target date for the safety evaluation would be January 2003.

The staff closed the meeting by thanking Westinghouse for their presentation.

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Attachment: Meeting Attendees

cc w/att: See next page

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Westinghouse Electric Company LLC

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MEETING WITH WESTINGHOUSE ELECTRIC LLC

STAGGERED INTEGRATED ESF TESTING

APRIL 10, 2001

ATTENDANCE LIST

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Jack Foster
Robert Tjader
Hukam Garg
Millard Wohl

WESTINGHOUSE

Virgil Paggen
Dave Finnicum