



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SEP 15 1980

Generic Task No. A-10

MEMORANDUM FOR: Karl Kniel, Chief  
Generic Issues Branch

FROM: R. P. Snaider, Task Manager  
Unresolved Safety Issue A-10, "BWR Nozzle Cracking"

SUBJECT: SUMMARY OF MEETING WITH GENERAL ELECTRIC COMPANY  
(GE) TO DISCUSS THE PROPOSED FEEDWATER NOZZLE SURVEILLANCE  
INSTRUMENTATION SYSTEM

On Wednesday, September 3, 1980, the NRC staff met with representatives of the General Electric Company (GE) and other interested industry groups to discuss NRC comments on the GE draft document NEDE-24265-P (proprietary) regarding the proposed feedwater nozzle surveillance instrumentation system. A list of attendees is attached.

General Electric and NUTECH have proposed inservice monitoring systems for detection of leakage past piston ring seals (or welds, where applicable) of BWR feedwater nozzle thermal sleeves. The GE design was discussed at an earlier meeting (See meeting summary dated November 19, 1979), questions from which led GE to produce the draft document NEDE-24265-P as an information report for licensees, applicants, and the NRC staff. The NUTECH design was also discussed at an earlier meeting (See meeting summary of February 27, 1980) and NUTECH is preparing an information report regarding its system.

The GE representatives responded to the concerns of the NRC staff regarding the assumptions used in the thermal-hydraulic analysis that forms the basis for such factors as sensor (thermocouple) placement and derivation of leakage flow rates from recorded normalized temperatures. The staff was satisfied that the sum of any analytical errors induced by the various assumptions was small with regard to the capability to qualitatively detect temperature changes, on the nozzle exterior surface, resulting from leakage past the thermal sleeve or weld. However, the staff is not yet convinced that either (GE or NUTECH) system design will provide quantitative leakage flow rates with sufficient accuracy to warrant their application for usage factor determination and hence in maintenance scheduling. Field experience is expected to provide justification for the future quantitative usage of this system.

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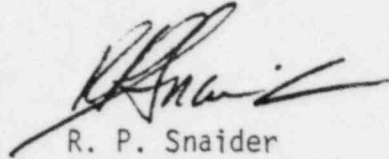
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K. Kniel

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Although the quantitative capability of the system is still in question, the staff is encouraged by the development of on-line systems and will modify its NUREG-0619 document to give credit for their use. The ultimate goal is the replacement of in-vessel dye-penetrant examinations, with their attendant personnel radiation exposure, by the combination of proven leakage monitoring systems and improved ultrasonic testing techniques.



R. P. Snaider  
Task Manager A-10  
Generic Issues Branch

Attachment: Attendance List

cc: R. P. Snaider  
N. Anderson  
V. Noonan  
J. P. Knight  
R. Vollmer  
R. Bosnack  
S. Pawlicki  
D. Eisenhut  
All attendees

A-10 MEETING

NAME

AFFILIATION

R. P. Snaider	NRC/NRR/DST/GIB
H. Choe	GE/NSE
H. T. Watanabe	GE/Licensing
T. J. Perkins	Niagara Mohawk
R. T. Demuth	Boston Edison Company
G. P. Chew	NUTECH
A. B. Fife	NUTECH
K. W. Klecker	NRC/NRR/DE
Bill Belke	NRC/QAB/DOE
P. G. Wisco	NRC/QAB/DOE
M. R. Hum	NRC/NRR/MTEB
D. C. Stadler	Carolina Power and Light
W. S. Hazelton	NRC MTEB



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*Public Document  
Room*

OCT 17 1980

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MEMORANDUM FOR: Kari Kniel, Chief  
Generic Issues Branch  
Division of Safety Technology

FROM: Richard P. Snaider, Task Manager  
Unresolved Safety Issue A-12

SUBJECT: FORTHCOMING MEETING WITH REPRESENTATIVES OF THE  
ELECTRIC POWER RESEARCH INSTITUTE TO DISCUSS PROGRAM  
FOR RESOLUTION OF USI A-12 FRACTURE TOUGHNESS  
ISSUE

DATE & TIME: Wednesday, November 12, 1980, 1:30 PM

LOCATION: P-422  
Phillips Building  
7920 Norfolk Avenue  
Bethesda, Maryland

PURPOSE: To discuss the Status of the EPRI-proposed resolution  
of the USI A-12 fracture toughness issue.

PARTICIPANTS: NRC  
K. Kniel, N. Anderson, R. Gamble, D. Sellers,  
D. Smith, J. Schiffgens, B. Elliot, N. Randall,  
R. Snaider

EPRI  
J. Egan, T. Marston, R. Nickell, et. al.  
Representatives of PWR and BWR Licensees and Applicants

*Richard P. Snaider*  
Richard P. Snaider  
Task Manager, USI A-12

cc: Applicants  
Licensees

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