



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

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Cedar Rapids, Iowa 52406

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FEB 15 1979

MEMORANDUM FOR: Brian K. Grimes, Assistant Director for Engineering and Projects

FROM: Thomas A. Ippolito, Chief, Operating Reactors Branch #3

SUBJECT: SUMMARY OF DISCUSSION WITH IOWA ELECTRIC

The DOR staff met with representatives of Iowa Electric on February 13, 1979 to discuss the information needed for staff review and evaluation of (1) the suitability of safe-end repair welds and (2) the removal and consequences of shield lead plug and carbon steel fragments in the primary system of the Duane Arnold Energy Center. The list of attendees is provided in Enclosure 1.

With regard to the repair welds, the staff stated that it needed information and supporting analysis on the following subjects:

1. Fatigue (thermal and mechanical)
2. Stress Corrosion
 - a. Significance of any weld defects or crevices (stress analyses assuming indications are crevices)
 - b. Potential for excessive internal reinforcement
 - c. Sugaring effects
3. Potential of propagation if cracks are initiated
4. Augmented inservice inspection proposal
5. Improvements in leak detection sensitivity and decision/action criteria

The information and analysis required by the staff for their review of potential loose parts is as follows:

1. Potential for core flow blockage or other safety implications
2. Methods for determining the existance of lead contamination in the primary systems

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Brian K. Grimes

- 2 -

FEB 15 1979

3. If contamination exists, the methods for removal and analysis of potential effects on primary system materials, particularly Inconel.

A technical meeting covering this item was scheduled for February 20,* 1979.

Original Signed 

T. A. Ippolito

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosure:
Attendance List

*Meeting was subsequently changed
to February 21, 1979.

DISTRIBUTION:

Docket 50-331

ORB-3 Reading

NRR Reading

NRC PDR

LOCAL PDR

VStello

DEisenhut

RVollmer

VNoonan

TAIppolito

RCIark

SSheppard

EJordan

FCoffman

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ENCLOSURE

FEB 15 1979

LIST OF ATTENDEES

IOWA ELECTRIC

S. Tuthill
L. Liu
L. Root
R. Lowenstein

NRC - STAFF

V. Stello
D. Eisenhut
B. Grimes
V. Noonan
T. Ippolito
F. Coffman (Part-time)

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