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November 15, 1995
NG-95-3072

Mr. William T. Russell, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station P1-37
Washington, DC 20555-0001

Subje: Duane Arnold Energy Center
Docket No: 50-331
Op. License No: DPR-49
Summary Report for Resolution of USI A-46

- References:
- 1) NRC Generic Letter 87-02, "Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46," dated February 19, 1987
 - 2) NRC Generic Letter 87-02, Supplement 1, "Supplemental Safety Evaluation Report No. 2 (SSER No. 2) on SQUG Generic Implementation Procedure, Revision 2, as Corrected on February 14, 1992, (GIP-2)," Dated May 22, 1992
 - 3) Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Plant Equipment, Revision 2, Corrected February 14, 1992
 - 4) Letter, Franz (IELP) to Murley (NRC), dated September 21, 1992, NG-92-3961
 - 5) Letter, Pulsifer (NRC) to Liu (IELP), dated November 25, 1992
 - 6) Letter, Pulsifer (NRC) to Liu (IELP), dated August 4, 1993

File: A-18, A-101b

Dear Mr. Russell:

In Reference 1, the NRC Staff set forth the process for resolution of Unresolved Safety Issue (USI) A-46 and encouraged affected nuclear power plant licensees to participate in a generic program. In Reference 2, the Staff requested those licensees to submit a commitment to the Generic Implementation Procedure (GIP-2, Reference 3) prepared by the Seismic Qualification Utility Group (SQUG), a schedule for the implementation of the GIP, and finally, a report summarizing the results of the USI A-46 program.

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Released 2-13-96

An IES Industries Company

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By letter to the NRC Staff dated September 21, 1992 (Reference 4), IES Utilities committed to implement GIP-2, including the clarifications, interpretations, and exceptions in SSER-2 (Reference 2), and to communicate to the NRC Staff any significant or programmatic deviation from GIP guidance. IES Utilities agreed to submit the results of the USI A-46 evaluation by November 21, 1995. The NRC Staff concurrences in the IES Utilities plan and schedule for resolution of USI A-46 and certain Regulatory Guide 1.97 instruments at the Duane Arnold Energy Center (DAEC) are given in References 5 and 6 respectively.

This letter forwards the results of the USI A-46 evaluation for the Duane Arnold Energy Center. This letter also confirms that no significant or programmatic deviations from the GIP guidance were made during the USI A-46 resolution process.

USIA-46 REPORTS

Section I.2.2.8 of GIP-2 requires that a plant-specific Summary Report be submitted to the NRC staff which includes a proposed schedule for future modification and/or replacement of those outliers which are yet to be resolved. Further, GIP-2 Section II.9 provides guidance for Safe Shutdown Equipment List (SSEL), Relay Evaluation, Seismic Evaluation, and Completion Reports. As permitted in GIP-2 Section II 9.2, the pertinent results from the SSEL Report are included in the attached Seismic Evaluation (Attachment 1) and the Relay Evaluation (Attachment 2) Reports. To permit both the Seismic and Relay Evaluation Reports to be reviewed independently, some material is contained in both reports (e.g., a description of Safe Shutdown Equipment).

OUTLIERS

Outliers, as defined by GIP-2, were identified during the seismic and relay reviews. These outliers are described in detail in the attached reports.

The schedule for resolution, future modification and/or replacement of those outliers not yet resolved is provided in the attached reports. IES Utilities plans to resolve all of the remaining outliers by the end of Refueling Outage 15, currently scheduled for the spring of 1998.

The completion report will be submitted when all the planned actions for resolution of USI A-46 have been completed. That report will be submitted no later than 60 days following start up from Refueling Outage 15.

This letter is true and accurate to the best of my knowledge and belief.

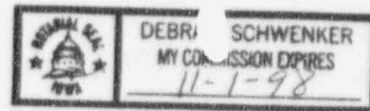
IES UTILITIES INC.

By *John F. Franz*
John F. Franz
Vice President, Nuclear

State of Iowa
(County) of Linn

Signed and sworn to before me on this 15 day of November, 1995.

by *Debra J. Schwenker*



Notary Public in and for the State of Iowa

Commission Expires

Attachments: 1) Duane Arnold Energy Center USI A-46 Seismic Evaluation Report
2) Duane Arnold Energy Center USI A-46 Relay Evaluation Report

JFF/SRC/src

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cc: S. Catron w/o Attachments
L. Liu w/o Attachments
B. Fisher w/o Attachments
G. Kelly (NRC-NRR)
H. Miller (Region III)
NRC Resident Office
Docu

RECORD OF REVISIONS

<u>Revision</u>	<u>Summary of Changes</u>	<u>Date</u>
0	Original Issue	9/95

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