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TO:  
B.C. RuscheFROM: Iowa Elec. Light & Power Co.  
Cedar Rapids, Iowa  
Lee Liu

DATE OF DOCUMENT

5-10-76

DATE RECEIVED

5-13-76

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## DESCRIPTION

Ltr. notarized 5-10-76, Re. their 4-16-76 ltr..  
Identifying dynamic load conditions not explicitly  
addressed in the original design regarding the  
Pressure Suppression type containments and results  
of the structural analysis to be submitted by  
August 2, 1976.....

(3 Originals & 37-Cys. & 40 Cys. Received)

## ENCLOSURE

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: Duane Arnold

## SAFETY

## FOR ACTION/INFORMATION

## ENVIRO

SAB 5-14-76

ASSIGNED AD :

BRANCH CHIEF :

PROJECT MANAGER:

LIC. ASST. :

Lear W/L

Parrish

ASSIGNED AD :

BRANCH CHIEF :

PROJECT MANAGER :

LIC. ASST. :

## INTERNAL DISTRIBUTION

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## EXTERNAL DISTRIBUTION

## CONTROL NUMBER

LDR: Cedar Rapids, Iowa

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REG. V-IE

IAPDR

CONSULTANTS

BROOKHAVEN NATL LAB

ULRIKSON(ORNL)

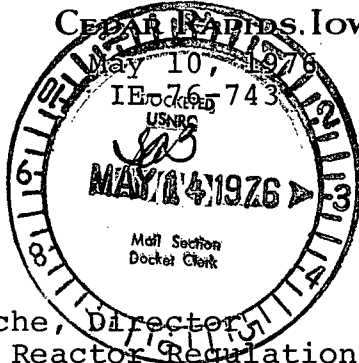
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## IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA

LEE LIU  
VICE PRESIDENT - ENGINEERING



Mr. Benard C. Rusche, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20545

Re: Duane Arnold Energy Center  
Subject: Mark I Containment Evaluation  
Short Term Program  
Reference: GE Letter to NRC, I. F. Stuart to  
V. Stello, dated 4/26/76  
File: T-23j

Dear Mr. Rusche:

Iowa Electric has joined with other utilities having Mark I pressure suppression type containments in a re-evaluation of their containment systems. Recent investigation by General Electric of the pressure suppression phenomena has identified dynamic load conditions not explicitly addressed in the original design. A generic Short Term Program was initiated by the Mark I utility group to assess the capability of the containment to perform its intended function when subjected to the most probable hydrodynamic loads resulting from a postulated LOCA event. This Mark I Short Term Program is nearing completion. The final task of this evaluation is a plant-unique structural analysis of the torus support system. On April 26, 1976 General Electric, at the request of the Mark I Owners Group, transmitted to V. Stello, Director, Division of Operating Reactors, a proposed utility action plan for the submittal of this plant-unique structural evaluation of the torus support systems.

We have conducted a thorough review of the information presented by General Electric in this April 26 letter and have determined that the proposal presented is applicable to the

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Mr. Benard C. Rusche  
IE-76-743  
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action planned for the Duane Arnold Energy Center by Iowa Electric Light and Power Company. That is, General Electric will submit for the Mark I Owners, Addendum No. 2 to NEDC-20989 (Mark I Containment Evaluation - Short Term Program - Final Report) which will identify dynamic loads to be used in the plant-unique torus support system structural analysis. Iowa Electric will submit a separate plant unique torus support system structural analysis report using the loads identified in NEDC-20989, Addendum No. 2 for the Duane Arnold Energy Center. A description of the analysis to be performed on torus support system and attached piping is provided in Nutech Report MK I-02-012, which is attached to GE's April 26 letter to Mr. Stello.

Nutech will perform the structural analysis for the Duane Arnold Energy Center torus support system evaluation. The results of this analysis will be used to determine if further action need be undertaken and discussed with the NRC as a basis for continued operation during the performance of the long term structural evaluation for the Duane Arnold Energy Center. A report will be prepared to document the results of the structural analysis and submitted to the NRC by August 2, 1976.

Three signed originals and 37 copies of this letter are transmitted herewith. This letter is true and accurate to the best of my knowledge and belief.

Iowa Electric Light and Power Company

By: 

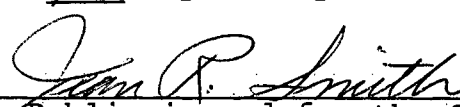
Lee Liu

Vice President, Engineering

LL/KAM/ms

cc: D. Arnold  
J. Newman  
J. Shea  
J. Keppler  
L. Root  
K. Meyer

Sworn and Subscribed to before me  
on this 10<sup>th</sup> day of May, 1976.

  
Notary Public in and for the State  
of Iowa.

Jean R. Smith  
NOTARY PUBLIC  
STATE OF IOWA  
Commission Expires  
September 30, 1978