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MCGAUGHY, R. W. Iowa Electric Light & Power Co.
RECIP. NAME RECIPIENT AFFILIATION
DAVIS, A. B. Region 3, Office of Director

SUBJECT: Forwards addl info & justification, supplementing util 870401 response to Insp Rept 50-331/86-20, per WD Shafer 870414 request. Util will provide backup power source to listed technical support ctr equipment.

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Iowa Electric Light and Power Company

June 10, 1987
NG-87-1630

Mr. A. Bert Davis
Regional Administrator
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License No: DPR-49
Response to Request for Additional Information Regarding Our Response to NRC Inspection Report
No. 50-331/86020, ERF Appraisal

Reference: 1) W. D. Schafer letter to L. Liu dated 4/14/87.
2) R. W. McGaughy letter to A. B. Davis dated 4/1/87 (NG-87-1090).
3) W. D. Shafer letter to L. Liu dated 2/6/87.

File: A-102 A-221, A-230

Dear Sir:

Attached is the additional information and justification requested in the letter from Mr. W. D. Shafer to Mr. L. Liu dated April 14, 1987 (reference 1). This information supplements our initial response (reference 2) to the subject special appraisal of the Duane Arnold Energy Center emergency response facilities (reference 3).

Very truly yours,

R. W. McDaughy

Richard W. McGaughy
Vice President, Production

RWM/TLF/pjv*

Attachments: Response to Request for Additional Information Regarding Our Response to Inspection Report 50-331/86020

cc: T. Forker
D. Hingtgen
L. Liu
L. Root
T. Cappucci
NRC Resident Office
Commitment Control No. 870070, 870073, 870075, 870080, 870093

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Attachment 1 to NG-87-1630

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION REGARDING
OUR RESPONSE TO NRC INSPECTION REPORT NO. 50-331/86020

Open Item 1

Ensure that the following TSC equipment and systems can receive power from an essential power source: HVAC system; radio base station for field team communications; new Plant Process Computer (PPC) (VAX Model 8600); MIDAS terminal used for offsite dose calculation; and TSC lighting. (50-331/86020-01) (Section 1.1.3.3)

Response:

We will provide a backup power source to the following TSC equipment and systems: HVAC system; radio base station for field team communications; new Plant Process Computer (PPC) (VAX model 8600); MIDAS terminal used for offsite dose calculation; and TSC lighting. Preliminary results of load studies on standby diesel generators 1G21 and 1G31 indicate that they are not a suitable source of backup power for the TSC. We have initiated studies to evaluate alternate means to supply backup power to support the TSC and to identify any equipment or systems located outside the TSC which are required to support the operation of the TSC. By September 1, 1987, we will update this response with a description of the specific actions we will take to provide backup power to the TSC and the implementation schedule for those actions.

Open Item 4a

Wind speed and possibly wind direction measurements, for at least the northerly direction are significantly affected by meteorological tower wake effects. (50-331/86020-04) (Section 1.2.4.2)

Response:

We will modify the meteorological tower to minimize the wake effects of the meteorological tower on the wind speed and wind direction measurements used in our dose projection model. Evaluation of potential modifications is in progress. We anticipate completion of these modifications by November 1, 1987.

Open Item 4e

The power-law relationship used to estimate wind speed at the offgas stack height is inappropriate. (50-331/86020-04) (Section 1.2.4.2)

Response:

We will modify the power-law relationship used by the MIDAS dose projection system to estimate wind speed at the offgas stack height by incorporating values which reflect a rural environment, rather than an urban environment. We will complete this modification by July 31, 1987.

Open Item 4f

A Table in EPIP 3.3 that could be used to convert a weather observation into an atmospheric stability class is incorrect. (50-331/86020-04) (Section 1.2.4.2)

Response:

We will revise the table in EPIP 3.3 and CPIP 2.1 used to convert standard weather observations into an atmospheric stability class to conform with the original table developed by Pasquill as modified by Gifford. We will complete this revision by July 31, 1987.

Open Item 8

Proceduralize guidance related to the evacuation and relocation of OSC personnel, including specifying: what criteria warrant OSC evacuation; which supervisory and staff personnel would relocate to the TSC, ORRA, or some other location; and how OSC personnel accountability would be maintained during such a relocation. (50-331/86020-08) (Section 2.1.1.3)

Response:

We will proceduralize guidance related to the evacuation and relocation of OSC personnel, in revisions to EPIP 2.1 "Activation and Operation of the OSC," and EPIP 1.3 "Plant and Site Evacuation." This guidance will include what criteria warrant OSC evacuation; which supervisory and staff personnel would relocate to the TSC, ORRA, or some other location; and how OSC personnel accountability would be maintained during a relocation. We will complete these revisions by August 31, 1987.