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 AUTH. NAME                      AUTHOR AFFILIATION  
 TOOKER, D.W.                    Iowa Electric Light & Power Co.  
 RECIP. NAME                      RECIPIENT AFFILIATION  
                                     Region 3, Chicago, Office of the Director

SUBJECT: LER 80-013/01T-0: on 800330, during core loading operations, fuel assembly was loaded into cell 06-23 w/o control rod 06-23 being fully inserted. Caused by personnel error. Fuel moving plan reviewed before loading was resumed.

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APR 17 1980

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LICENSEE EVENT REPORT

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7 8 9 14 15 25 26 30 37 38 (2) 0 0 0 - 0 0 0 0 0 0 0 - 0 0 (3) 4 1 1 1 1 1 (4) (5)

7 8 60 61 68 69 74 75 80 (6) 0 1 5 0 0 0 3 3 1 (7) 0 3 3 0 8 0 (8) 0 4 1 0 8 0 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During core loading operations, a fuel assembly was loaded into cell 06-  
0 3 | 23 without control rod 06-23 being fully inserted. Reactor core loading  
0 4 | requirements are specified in T.S.3.9.A.2. Loading of fuel into a cell  
0 5 | without the control rod fully in could result in a reduction in the sub-  
0 6 | criticality margin. The control rod was inserted into cell 06-23 and the  
0 7 | fuel moving plan was reviewed prior to resuming core loading. No similar  
0 8 | event reports have been submitted.

7 8 9 11 12 13 14 15 16 17 18 19 20 (9) Z Z (11) A (12) A (13) Z Z Z Z Z Z Z (14) Z (15) Z (16)

7 8 17 21 22 23 24 26 27 28 29 30 31 32 (17) LER/RO REPORT NUMBER (18) 8 0 (19) [ ] (20) [ ] (21) [ ] (22) 0 1 1 3 (23) [ ] (24) 0 1 (25) [ ] (26) [ ] (27) 0

33 34 35 36 37 40 41 42 43 44 47 (18) H (19) G (20) Z (21) Z (22) 0 0 0 0 (23) Y (24) N (25) Z (26) Z 9 9 9

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Personnel error. The cognizant personnel reviewed the fuel moving plan  
1 1 | prior to resuming core loading. Core loading has been satisfactorily com-  
1 2 | pleted. The applicable fuel handling procedure is being revised for clar-  
1 3 | ity and personnel will be retrained as necessary.

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (30) (31) (32)

1 5 | H (28) 0 0 0 (29) NA (30) (31) A (32) Reactor Operator Observation

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (33) (34) (35) (36)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (37) (38) (39) (40)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (40) (41) (42) (43)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (42) (43) (44) (45)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (44) (45) (46) (47) (48) (49) (50)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 (44) (45) (46) (47) (48) (49) (50)

NAME OF PREPARER D. W. Tooker

PHONE: 319-851-5611

8004140452

DUANE ARNOLD ENERGY CENTER  
Iowa Electric Light and Power Company  
Licensee Event Report - Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: 04-10-80

Reportable Occurrence No.: 80-013

Event Description:

During core loading operations, a fuel bundle would not set down properly in its assigned location in cell 06-19. It was necessary to unload the fuel from the cell and inspect the cell with underwater video camera equipment. The inspection revealed nothing wrong in the cell and it was decided to reload the fuel into the cell but in a different sequence. The unloading and reloading was done according to a fuel moving plan modification that was written at the time. The double blade guide being used was moved from cell 06-19 to cell 06-23. After this move the control rod should normally have been inserted into cell 06-23. The first fuel bundle was loaded into cell 06-23 prior to the insertion of the control rod. The error was discovered prior to placing the second bundle into the cell. The reactor core loading requirements are specified in Technical Specification paragraph 3.9.A.2. Loading of fuel into a cell without the control rod fully inserted could result in a reduction in the subcriticality margin. No similar licensee event reports have been submitted.

Cause Description

Personnel error. The operator in the control room wrote a modification to the fuel moving plan and the reactor engineer on the refueling bridge wrote a similar modification. There was a difference in the two modifications in that the control room plan did not show the control rod insertion step. The bridge plan did show the control rod insert step, however, this step was inadvertently missed.

Corrective Action

The cognizant personnel reviewed the fuel moving plan prior to resuming core loading. Core loading has been satisfactorily completed. The appropriate fuel moving procedure will be revised to clarify the responsibilities of the reactor engineer and the shift supervising engineer when it is necessary to deviate from the published fuel moving plan. All affected personnel will be reinstructed on the revised procedure for making changes to fuel moving plans as required.

*MB*

Iowa Electric Light and Power Company

April 2, 1980  
DAEC - 80 - 186

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
Region III  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Subject: Prompt Notification of a  
Reportable Occurrence

*50-331*

File: A-118a

Dear Mr. Keppler:

This letter, telecopied to your office, is intended to satisfy the requirement for prompt notification of a Reportable Occurrence in accordance with Specification 6.11.2.a of the Duane Arnold Energy Center Technical Specifications.

Technical Specification paragraph(s) violated:

Description Occurrence: While preparing to change out a cell in 125 VDC battery 1D2, a station electrician opened the breaker between 1D2 and 125 VDC buss 1D20. He then noticed that charger 1D22, which was then powering 1D20, was carrying a load and incorrectly assumed this meant 1D22 was still charging battery 1D2. He then opened the breaker between charger 1D22 and buss 1D20. This resulted in a loss of control power to essential buss 1A4 as well as all other loads being supplied by 1D20 which includes control power to standby diesel generator 1G-21. He then reclosed the breaker between charger 1D22 and buss 1D20. This restored control power to 1A4 which was immediately tripped by undervoltage relays which had been installed as part of an emergency power modification. Essential buss 1A4 supplies power to charger 1D22 so 125 VDC buss 1D20 was again dead. This meant no control power was available so standby diesel generator 1G-21 did not start to supply power to 1A4. The electrician then reclosed the breaker between battery 1D2 and buss 1D20 which restored control power to 1G-21 and the diesel generator auto started and began supplying power to 1A4. Normal system line up was subsequently restored. The plant is currently shutdown for refueling and maintenance.

*D. L. Mineck/By* *A002*  
Daniel L. Mineck *5*  
Chief Engineer  
Duane Arnold Energy Center *Dup 1/0*

DLM/JVS/n

cc: Director, Management Information and Program Control (2)  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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*APR 4 1980*