

Iowa Electric Light and Power Company

July 11, 1989
NG-89-2009

Dr. Thomas E. Murley
Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Station P1-137
Attention: Document Control Desk
Washington, D. C. 20555

Subject: Duane Arnold Energy Center
Docket No: 50-331
Op. License No: DPR-49
Response to NRC Generic Letter 89-06,
"Safety Parameter Display System"
File: A-101b, A-370

Dear Dr. Murley:

We have evaluated the implementation status of our Safety Parameter Display System (SPDS) in response to NRC Generic Letter 89-06. This evaluation included a detailed review of the requirements identified in Supplement 1 to NUREG-0737 and completion of the checklist enclosed with Generic Letter 89-06.

The Duane Arnold Energy Center (DAEC) SPDS has been modified to correct software weaknesses and resolve deficiencies previously identified by the NRC in IE Information Notice No. 86-10, Safety Parameter Display System Malfunctions. During 1987 and 1988, the SPDS function was transferred from its own hardware system to the more powerful and flexible Plant Process Computer (PPC). The primary display devices for the SPDS were replaced with state-of-the-art touch screen color graphic terminals. The SPDS application software was rebuilt to improve system efficiency and maintenance and facilitate future expansion. Our review of NUREG-1342, however, has enabled us to identify features of the SPDS which, if improved, will further enhance system operation. These modifications are being evaluated and may be incorporated into the next series of SPDS enhancements currently scheduled for 1990.

We believe that the DAEC SPDS meets the requirements of NUREG-0737, Supplement 1. However, in the course of responding to GL 89-06, we realized that data needed to determine SPDS availability has not been collected since transfer to the PPC. Availability tracking methods are now being reviewed and data collection will resume prior to August 1, 1989.

The supporting documentation used in our review of SPDS implementation status, including the checklist and photographs, will be maintained in a special project file and available for staff review.

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Should you have any questions or concerns regarding this submittal, please contact this office.

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

IOWA ELECTRIC LIGHT AND POWER COMPANY

By *Daniel L Mineck*
DANIEL L. MINECK
Manager, Nuclear Division

Subscribed and sworn to before me on
this *11th* day of *July*, 1989.

Kathleen M. Furman
Notary Public in and for the State of Iowa

DLM/PMB/pjv+

cc: P. Bessette
L. Liu
L. Root
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NRC Resident Office