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 MURLEY, T. Office of Nuclear Reactor Regulation, Director (Post 870411)

SUBJECT: Provides written notification of change in completion date  
 for "DCRDR Short Term Enhancements" listed in Schedule B.  
 Date changed from 871231 to 880131 due to human factors  
 approved indicator scales & package closure activities.

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**Iowa Electric Light and Power Company**

December 29, 1987  
NG-87-4659

Dr. Thomas Murley, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Subject: Duane Arnold Energy Center  
Docket No: 50-331  
Op. License No: DPR-49  
Integrated Plan Schedule B Change  
Reference: 1) "Detailed Control Room Design Review  
Summary Report", Transmitted by letter,  
R. McGaughy to H. Denton, NG-86-4251,  
December 5, 1986.  
2) Letter, R. McGaughy to Dr. T. Murley,  
"Semiannual Report for the Plan for the  
Integrated Scheduling of Plant  
Modifications for the DAEC", NG-87-1456,  
May 4, 1987.  
File: A-278, A-107a, A-370

Dear Dr. Murley:

This letter provides the NRC with written notification of a change in Schedule B, as required by Section V.B of the "Plan for the Integrated Scheduling of Plant Modifications for the Duane Arnold Energy Center" (Integrated Plan). Your staff was advised orally on December 22, 1987 of this schedule change.

We have determined that the completion date for the "Detailed Control Room Design Review (DCRDR) Short Term Enhancements" listed in Schedule B must be changed. Section 7.0 of reference 1 ("Implementation of Corrections") outlined the work to be accomplished during Phase 1 of the DCRDR implementation schedule. Phase 1 is referred to as the surface enhancements phase and addresses those human engineering deficiencies which can be corrected by control room panel cleanup activities such as painting, relabeling, re-mimicking and demarcation. The summary report identifies a Phase 1 completion date of December 31, 1987, which is reflected in Schedule B of the Integrated Plan (reference 2). Although Phase 1 work will be essentially complete by December 31, 1987, procurement and installation difficulties associated with human factors approved indicator scales and package closure activities necessitate that the completion date for Phase 1 be changed to January 31, 1988.

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In addition to the schedule change discussed with your staff we have made two changes to the scope of the DCRDR Phase 1 surface enhancements described in reference 1.

The first change concerns item 23 of the Phase 1 scope (page C-4 of reference 1). This item was to adjust audible alarms in the control room to conform to human factors standards. The audible alarms are part of the control room annunciator system. Therefore, due to design considerations this item will be completed with the "Control room Annunciator modifications" under Phase 3 (page 7-3, paragraph 7.4 of reference 1) rather than Phase 1.

The second change involves the elimination of item 31 (page C-4 of reference 1) which specified re-numbering of "B" diesel generator from "1G-21" to "1G-41." The proposed change would have made the diesel generator number conform to operator expectations, thus eliminating a potential cause of confusion. However, we now recognize that the DCRDR engineering assessment team underestimated the impact of this proposed re-numbering. In fact, the change would require extensive revision of plant documentation and procedures as well as impacting operator training. We have concluded that the burden of revising documentation and procedures and the negative transfer of training emphasis, coupled with a new potential for confusion created by the changes, outweighs the perceived benefit of the re-numbering. No wrong-train events have been caused by the present diesel generator nomenclature. Furthermore, a new survey of operations personnel revealed that they overwhelmingly oppose re-numbering. We have therefore decided to leave the numbering of the "B" diesel generator unchanged.

This schedule change will be incorporated into our next semi-annual update of the Integrated Plan schedules. Should you have any questions please feel free to contact our office.

Very truly yours,

  
William C. Rothert  
Manager, Nuclear Division

WCR/EFB/pjv\*

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