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ACCESSION NBR: 8311080261      DOC. DATE: 83/11/03      NOTARIZED: NO      DOCKET #  
 FACIL: 50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow      05000331  
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 RECIP. NAME      RECIPIENT AFFILIATION  
 DENTON, H.R.      Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards semiannual rept summarizing progress in implementing NRC requirements concerning plant mods, identifying changes in Schedules A & B & summarizing reasons for completion date changes.

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**Iowa Electric Light and Power Company**

November 3, 1983  
NG-83-3666

Mr. Harold Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Duane Arnold Energy Center  
Docket No: 50-331  
Op. License No: DPR-49  
Semi-annual Report for the "Plan for the  
Integrated Scheduling of Plant Modifications  
for the DAEC"

Dear Mr. Denton:

This letter and attachments provide the semi-annual report required by Section V.A. of the "Plan for the Integrated Scheduling of Plant Modifications for the DAEC" (the Plan). This report summarizes IELP's progress in implementing NRC requirements concerning plant modifications, identifies the changes made in Schedules A and B, summarizes the reasons for changes in dates for completion of modifications, and provides revised Schedules A and B. The information is current as of October 14, 1983.

Attachment 1 is a summary of progress in implementing the NRC requirements listed in Schedules A and B. It lists the requirements which have been completed prior to this update.

Attachment 2 identifies the changes in Schedules A and B. These changes include revisions in item descriptions, revised completion dates, and additional items in Schedule B. The reasons for these changes are stated in Attachment 3.

Revised Schedules A and B are included as Attachment 4. Although the format used is similar to the previous Schedules, several improvements have been incorporated to enhance their usefulness. For each item listed, the specific implementation date is stated and the source document supporting that date is identified. However, no source document is cited for IELP-initiated items listed in Schedule B.

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Mr. Harold Denton  
November 3, 1983  
NG-83-3666  
Page Two

IELP continues its efforts to implement the Plan in an effective manner. As always, we welcome your questions and comments concerning the Plan and this semi-annual report.

Very truly yours,

  
Richard W. McGaughy  
Manager, Nuclear Division

RWM/TGD/dmh\*

Attachment 1: Summary of Progress in Implementing NRC Requirements  
2: Changes in Schedules  
3: Summary of Reasons for Schedule Changes  
4: Revised Schedules A and B.

cc: L. Liu  
S. Tuthill  
M. Thandi  
J. Keppler  
NRC Resident Office  
Commitment Control Nos. 83-0200  
83-0226

ATTACHMENT 1

Summary of Progress in Implementing NRC Requirements

The following items, as listed on the Schedules A and B transmitted with the May 3, 1983 NRC approval of the Plan, have been completed in accordance with the identified schedules.

Schedule A

Mark I

- a) Major modifications
- b) Minor modifications
- c) Plant unique analysis
- d) Suppression Pool Temperature Monitoring System (SPTMS)

NUREG-0737

- a) II.B.3 Post-Accident Sampling System
- b) II.K.3.27 Common Reference Level
- c) II.D.3.4 Control Room Habitability
- d) II.F.1.1 and II.F.1.2 Accident Monitoring

Schedule B

CRD Nozzle Cracking

Containment Purge and Vent (those modifications indicated in NG-83-1038 dated March 24, 1983, final modifications are identified on the revised Schedule B as Standby Gas Treatment Overpressure Protection).

Scram Discharge Volume (SDV) Long Term Modifications

NUREG-0612 Heavy Loads - Procedures

RPS MG (Reactor Protection System Motor Generator)

IELP has made the expected progress toward implementing the NRC requirements on Schedules A and B. It is intended that all implementation dates will be met. However, detailed schedules for a few of the items show no margin for milestone delays. Unanticipated vendor delivery problems could impact the scheduled completion dates for Fire Protection Alternate Shutdown (Schedule A) and Safety Parameter Display System (Schedule B).

ATTACHMENT 2

Changes in Schedules

Changes to the Schedules fall into three categories: revised descriptions of items, revised completion dates, and addition of new items. Item descriptions have been revised to better reflect current IELP project titles and milestones. In some cases, two items have been combined into a single new item. These changes are described by Note 1.

I. ITEM DESCRIPTIONS

<u>Current Item Description</u>	<u>Revised Item Description</u>
<u>SCHEDULE A</u>	
Appendix R Alternate Shutdown	Fire Protection Alternate Shutdown (10 CFR 50.48 Appendix R)
Equipment Qualification	Equipment Qualification (10 CFR 50.49)
<u>SCHEDULE B</u>	
CRDR Items and Short Term Enhancements	Control Room Design Review (CRDR) Short Term Modification, NUREG-0737 I.D.1
SPTMS Upgrade	SPDS Operable including SPTMS Interface
Class A Model	Enhance Plume Dispersion Model
Detailed CRDR	Detailed (Supplement 1) CRDR (Control Room Design Review) 1) Program Plan Submittal 2) Supplemental DCRDR 3) Summary Report Submittal
Met System to SPDS	Enhance Meteorological System
Appendix R (Other than Alternate Shutdown)	1) Fire Protection, Non-Alternate Shutdown, Non-Outage Related (10 CFR 50.48 Appendix R)  2) Fire Protection, Non-Alternate Shutdown, Outage Related (10 CFR 50.48 Appendix R)

Containment Purge & Vent

Standby Gas Treatment Overpressure Protection (Containment Purge & Vent) (Note 1)

SPDS

SPDS (Safety Parameter Display System)  
1) Safety Analysis Submittal  
2) Implementation Plan Submittal  
3) SPDS Operable including SPTMS Interface

NUREG-0737 a) I.C.1 EOP's

EOP's (Emergency Operating Procedures - NUREG-0737 I.C.1)  
1) Submit Procedures Generation Package  
2) Implementation

SPDS Upgrade

Regulatory Guide 1.97  
1) Submit report on Supplement 1 to NUREG-0737 requirements  
2) Submit schedule of implementation dates

Heavy Loads - Procedures

1) NUREG-0612 - Heavy Loads Procedures  
2) NUREG-0612 Heavy Loads Lifting Modifications

Heavy Loads - Reactor Building Crane

NUREG-0612 Heavy Loads - Reactor Building Crane

Construct ERF/PP Computer Facility

Construct Data Acquisition Center Facility

NOTE 1: Standby Gas Treatment Overpressure Protection is the only portion remaining of former item Containment Purge and Vent per NG-83-1038 dated March 24, 1983.

II. SCHEDULE CHANGES

Reasons for Schedule Changes are explained in Attachment 3.

Schedule A

<u>Revised Description</u>	<u>Current Schedules</u>	<u>Revised Schedules</u>
NONE	----	----

Schedule B

<u>Revised Description</u>	<u>Current Schedules</u>	<u>Revised Schedules</u>
<u>EOP's</u> : Implementation	60 Days after Cycle 8 Startup	Prior to Cycle 8 Startup
NUREG-0612-Heavy Loads Lifting Modifications	September 22, 1983	December 1, 1983
Appendix I	September 31, 1984	July 31, 1985
Simulator (potential)	December 31, 1985	Undetermined

III. NEW ITEMS

Schedule A

None

Schedule B

Emergency Response Facility (ERF) Data Acquisition and Display (Supplement 1 to NUREG-0737)

- 1) Provide Date for fully functional Technical Support Center (TSC)
- 2) Provide Date for fully functional Emergency Operations Facility (EOF)

Automatic Depressurization System (ADS) Logic Modifications (NUREG-0737, Item II.K.3.18)

Containment Isolation on High Radiation [NUREG-0737, Item II.E.4.2(7)]

Automatic Depressurization System (ADS) Accumulator Qualification (NUREG-0737, Item II.K.3.28)

SPDS Enhancements\*

IGSCC Resolution\*

Turbine Wheel Replacement\*

Onsite Training Facility\*

Radwaste Processing Building\*

Low-Level Radwaste Storage Facility\*

\* Potential IELP Initiative Item. Schedule not yet certain.

ATTACHMENT 3

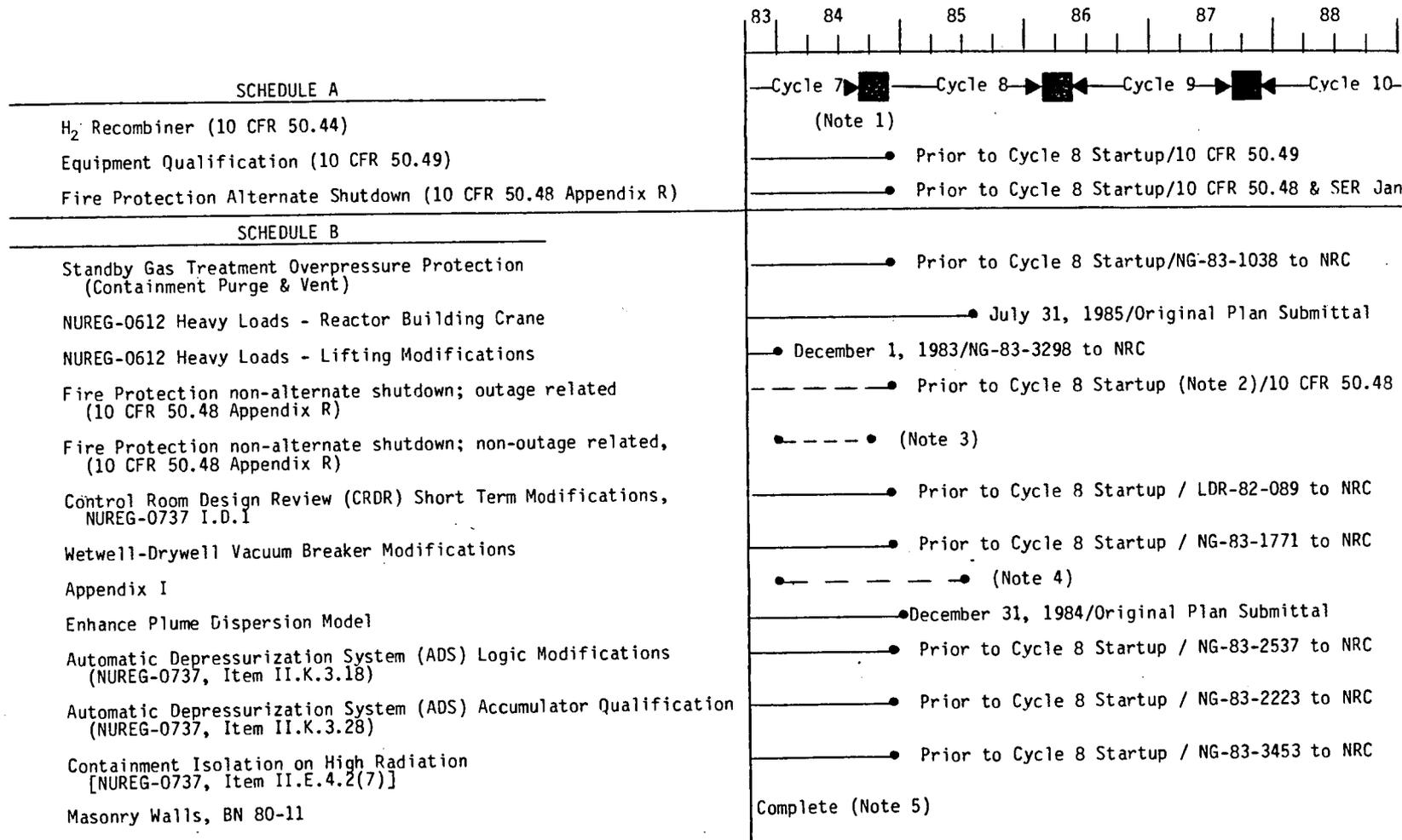
Summary of Reasons for Schedule Changes

SCHEDULE A

<u>Item Description</u>	<u>Schedule Change</u>	<u>Reason</u>
- - - -	None	- - - -

SCHEDULE B

<u>Item Description</u>	<u>Schedule Change</u>	<u>Reason</u>
<u>EOP's: Implementation</u>	Accelerated	Implementation Schedule accelerated to allow operator transition to new EOP's during outage rather than during operation.
Heavy Loads Lifting Modifications	Delayed	Modification work was incorrectly deferred from the 1983 refueling outage as described in IELP letter to H. Denton, NG-83-3298 dated September 22, 1983
Appendix I	Delayed	Previous schedule assumed March, 1983 issuance of DAEC license amendment, with final implementation 18 months thereafter. Current Schedule assumes January, 1984 issuance of DAEC license amendment with final implementation 18 months thereafter.
Simulator (potential)	Delayed	Project delayed due to committal of resources to other higher priority DAEC projects.



SCHEDULE B (continued)

Emergency Response Capabilities (Supplement 1 NUREG-0737)

SPDS

Safety Analysis Submittal

Implementation Plan Submittal

SPDS Operable including SPTMS Interface

Detailed (Supplement 1) CRDR

Program Plan Submittal

Supplemental DCRDR

Summary Report Submittal

Regulatory Guide 1.97

Submit Report on Supplement 1 to NUREG-0737 Requirements

Submit Schedule of Implementation Dates

EOP's

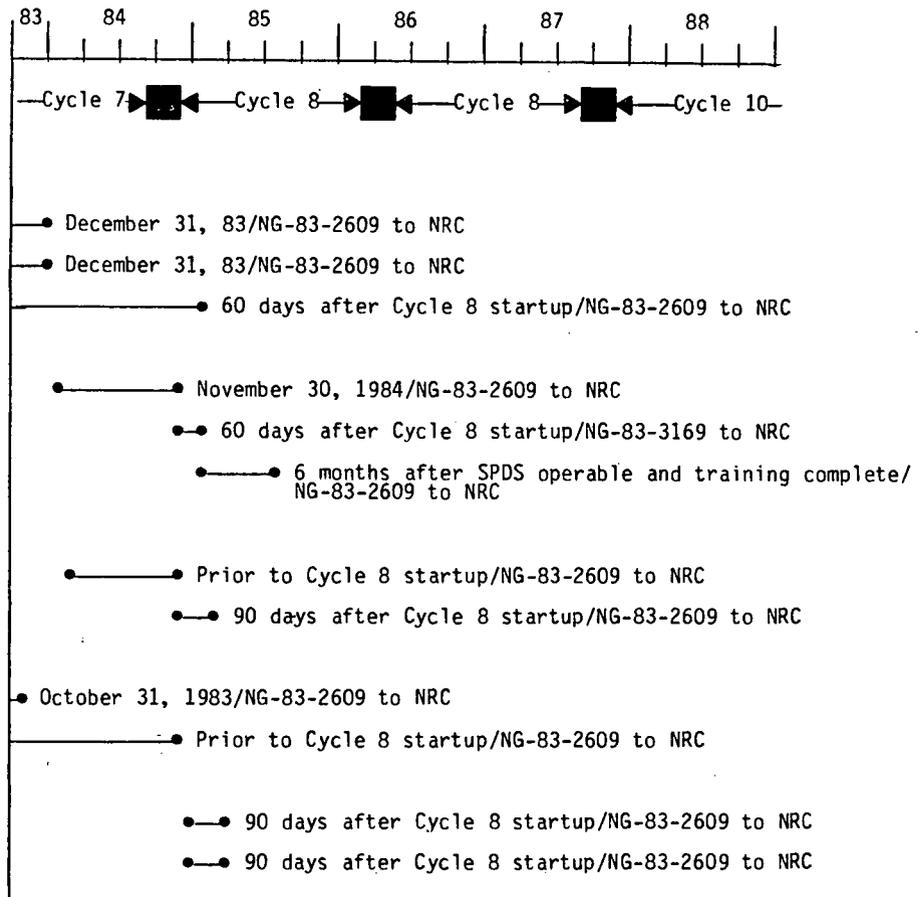
Submit Procedures Generation Package

Implementation

ERF Data Acquisition and Display

Provide Date for Fully Functional TSC

Provide Date for Fully Functional EOF



SCHEDULE B (continued)

IELP Initiative Items

Radwaste Modifications

Enhance Meteorological System

Construct Data Acquisition Center Facility

Relocate VAX Computer

Upgrade Plant Process Computer (PPC)

New Facilities (INPO)

RPS (Analog Trip)(potential)

Simulator (potential) (Note 6)

SPDS Enhancements (Note 6)

Radwaste Processing Building

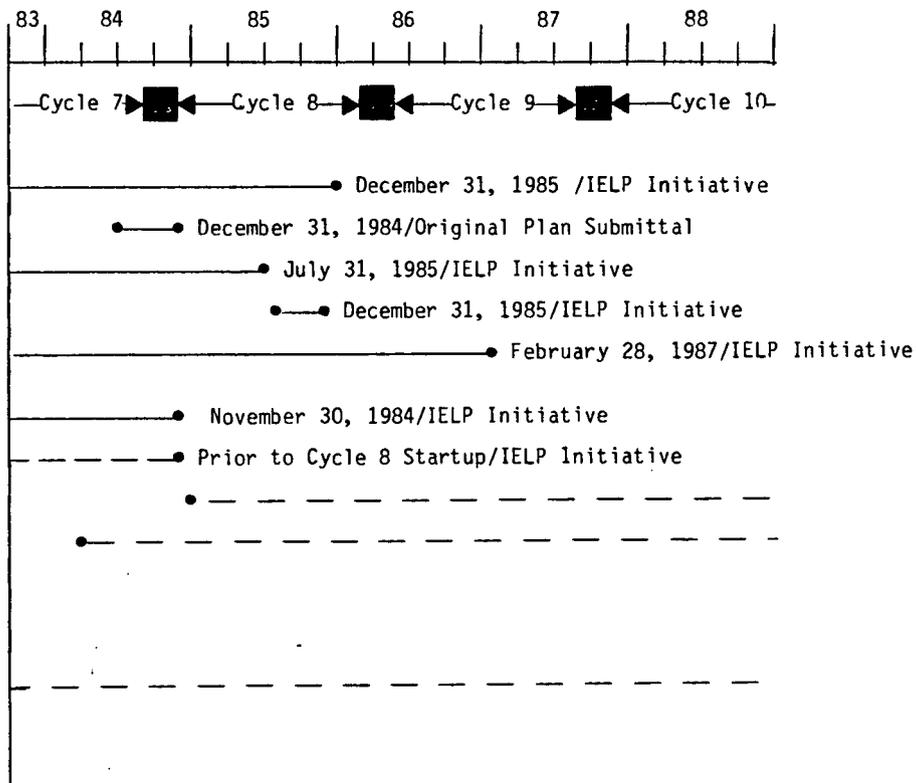
Low-Level Radwaste Storage Facility

Turbine Wheel Replacement

Training Facility

IGSCC Resolution

(Note 6)



- Note 1: IELP Letter, LDR 82-0139 dated May 28, 1982, requests exemption from 10 CFR 50.44 implementation date
- Note 2: Assumes SER dealing with exemption requests received at least 180 days prior to Cycle 7/8 refueling outage.
- Note 3: To be completed nine months after NRC acts on exemption requests. Estimated Schedule assumes January 1984 issue of NRC SER on exemption requests.
- Note 4: Estimated schedule assumes January, 1984 issuance of DAEC License Amendment. (Application submitted on August 29, 1979 with later revisions.) Final implementation to be 18 months following NRC approval of Technical Specification change.
- Note 5: Complete assuming NRC favorable review of IELP submittal
- Note 6: Potential IELP initiative item. Schedule not yet certain.