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 Office of Nuclear Reactor Regulation, Director (Post 870411)

SUBJECT: Semiannual rept for "Plan for Integrated Sceduling of Plant
 Mods for Duane Arnold Energy Center."

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Iowa Electric Light and Power Company

May 3, 1988
NG-88-1360

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
Semiannual Report for the "Plan for the
Integrated Scheduling of Plant Modifications
for the DAEC"
File: A-278

Dear Dr. Murley:

This letter and attachments provide the semiannual report required by Section V.A. of the "Plan for the Integrated Scheduling of Plant Modifications for the DAEC" (the Plan). This report summarizes our progress in implementing Schedule A and B items, identifies the changes since the last report, summarizes the reasons for schedule changes and provides updated schedules. The information is current as of April 28, 1988.

Attachment 1 is a summary of progress in implementing the items listed in Schedules A and B. It lists the five items which have been completed since the last update (IELP letter NG-87-3705 dated November 3, 1987).

Attachment 2 identifies the changes since the last report. These changes include the revision of two Schedule B commitment dates and the addition of seven new Schedule B items. The reasons for the schedule changes are stated in Attachment 3.

Updated Schedules A and B are included as Attachment 4. For each item listed, the specific implementation date is stated and reference to the NRC correspondence supporting the date is identified. When available, references to NRC correspondence are cited for IELP-initiated items listed in Schedule B.


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Dr. Thomas Murley
May 3, 1988
NG-88-1360
Page Two

Please inform us if you have any questions or comments concerning this submittal.

Very truly yours,


William C. Rothert
Manager, Nuclear Division

WCR/TLF/pjv*

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

cc: T. Forker
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870103

ATTACHMENT 1

Summary of Progress in Implementing Schedule A and B Items

The following items, as listed on the Schedules A and B transmitted with the November 3, 1988 semiannual report, have been completed during this reporting period:

Schedule A

None

Schedule B

Auxiliary Power Upgrade

Emergency Response Capabilities (Supplement 1 to NUREG-0737)
Detailed CRDR Short Term Enhancements

Motor Operated Valve Program (IEB 85-03)
Bulletin Item c and Item d Programs
Program Completion Report

Upgrade Plant Process Computer (PPC)

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 are sometimes revised to better reflect the current IELP project titles.

I. ITEM DESCRIPTIONS

<u>Current Item Description</u>	<u>Revised Item Description</u>
<u>Schedule A</u>	
None	
<u>Schedule B</u>	
None	

II. SCHEDULE CHANGES

<u>Description</u>	<u>Current Completion Date</u>	<u>Revised Completion Date</u>
<u>Schedule A</u>		
None		
<u>Schedule B</u>		
Increased Cooling Tower Capacity	Prior to Cycle 10 Startup	May 1, 1989
New Facilities Power Distribution	Schedule not yet certain	December 31, 1990
Surveillance Test Evaluation and Enhancement Program	Prior to Cycle 10 Startup	September 30, 1988

III. New Items

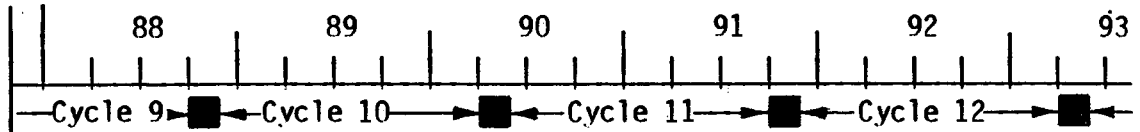
<u>Description</u>	<u>Completion Date</u>
<u>Schedule A</u>	
None	
<u>Schedule B</u>	
Design Basis Program	Schedule not yet certain
Individual Plant Examination	Schedule not yet certain, awaiting promulgation of NRC requirements
MMIS Bill of Materials Program	Schedule not yet certain
Revise Offsite Emergency Plans	July 1, 1988
Safety System Functional Inspection	August 31, 1988
Sewage Treatment Plant Modification	Prior to the Cycle 9/10 Refueling Outage
Verification of Seismic Adequacy of Mechanical and Electrical Equipment	Schedule not yet certain, awaiting promulgation of NRC requirements

ATTACHMENT 3

Summary of Reasons for Schedule Changes

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
<u>Schedule A</u>		
None		
<u>Schedule B</u>		
Increased Cooling Tower Capacity	Completion Date	Construction work on cooling tower additions and plant tie-ins is not expected to be completed until December 1988. Since the increased cooling capacity will not be required until the 1989 hot weather season, the in-service date for the increased capacity is being changed to May 1, 1989.
New Facilities Power Distribution	Completion Date	This project was previously listed as a "potential IELP initiative item. Schedule not yet certain". Work on this project is now scheduled to begin January 1, 1989 and to be completed by December 31, 1990.
Surveillance Test Evaluation and Enhancement Program	Completion Date	This project was previously listed as "scheduled for completion prior to Cycle 10 Startup per NG-87-2287." This was an error. The due date is September 30, 1988 per NG-87-3177.
Design Basis Program	New Item	Formalize the documentation of system design descriptions and design discipline standards.
Individual Plant Examination	New Item	Perform a study to evaluate the risk of severe accidents at DAEC in accordance with anticipated NRC requirements.

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
Schedule B (continued)		
MMIS Bill of Materials Program	New Item	Gather and input the data for a computerized parts and components listing for all repairable plant equipment. This program is a part of the Materials Management Information System (MMIS) and Computerized History and Maintenance Planning System (CHAMPS).
Revise Offsite Emergency Plans	New Item	Revise offsite emergency plans to resolve concerns raised by the Federal Emergency Management Agency (FEMA).
Safety System Functional Inspection	New Item	Perform a self-initiated safety system functional inspection of a selected safety-related system utilizing NRC methodology.
Sewage Treatment Plant	New Item	The existing sewage treatment plant is overloaded by the number of people on site during refueling outages. Iowa Electric is committed to the State of Iowa to increase the capacity of the DAEC sewage treatment plant prior to the next refueling outage currently scheduled to begin 09/29/88.
Verification of Seismic Adequacy of Mechanical Electrical Equipment	New Item	Verify the seismic adequacy of mechanical and electrical equipment to resolve Unresolved Safety Issue A-46 and Generic Letter 87-02.



SCHEDULE A

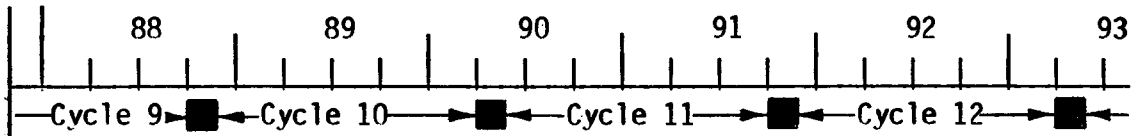
- No Schedule A Items

SCHEDULE B

NRC Items

- Backup Power for TSC
 - November 1, 1988/NG-87-3142
- Emergency Response Capabilities (Supplement 1 to NUREG-0737)
 - Detailed (Supplement 1) CRDR
 - Phase 2 Long Term Enhancements
 - Prior to Cycle 10 Startup/NG-86-4251 to NRC
 - Phase 3 Long Term Enhancements
 - Prior to Cycle 11 Startup/NG-86-4251 to NRC
 - Phase 4 Long Term Enhancements
 - Prior to Cycle 12 Startup/NG-86-4251 to NRC
 - Regulatory Guide 1.97
 - Upgrade 1E Power Supplies
 - Prior to Cycle 10 Startup/NG-85-4481 & NG-85-4388 to NRC
 - Reroute Cable for Divisional Separation
 - Prior to Cycle 10 Startup/NG-85-4481 to NRC
 - Upgrade Instrumentation to Category I
 - Prior to Cycle 10 Startup/NG-85-4481 to NRC
- Improved Reactor Vessel Water Level Instrumentation
 - Prior to Cycle 10 Startup/NG-85-4481 to NRC
- Individual Plant Examination (Note 1)
- Station Blackout Rule Compliance (Note 1)

SCHEDULE B (Continued)



- Surveillance Test Evaluation and Enhancement Program
- Verification of Seismic Adequacy of Mechanical and Electrical Equipment (USI A-46, GL-87-02)

• September 30, 1988/NG-87-3177
 (Note 1)

Other Regulatory Agency Items

- Revise Offsite Emergency Plans
- Sewage Treatment Plant Modifications

• July 1, 1988/FEMA
 • Prior to Cycle 9/10 Refueling Outage/State of Iowa

IELP Initiative Items

- Balance of Plant (BOP) Instrument Calibration
- Design Basis Program
- Drywell-Steam Tunnel HVAC Modifications
 PHASE II - Remaining Insulation
- Fire Protection (ANI Annual Projects)

• June 30, 1988/IELP Initiative
 (Note 3)

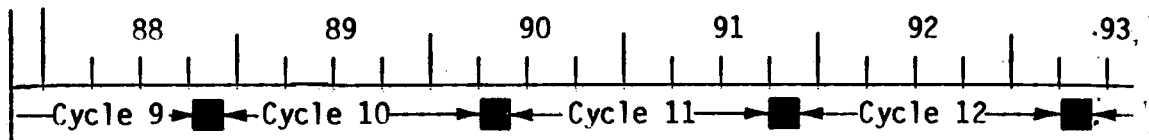
- Generator Retaining Rings and Rewind
- Hydrogen Water Chemistry Oxygen/Hydrogen Generator
- Increased Cooling Tower Capacity

• Prior to Cycle 10 Startup/IELP Initiative
 Annual Projects/IELP Initiative
 • Prior to Cycle 10 Startup/IELP Initiative
 (Note 2)
 • May 1, 1989/IELP Initiative

- MMIS Bill of Materials Program
- New Facilities Power Distribution Reliability Improvements
- Plant Initiated Modifications (Annual Projects)

(Note 3)
 • December 31, 1990/IELP Initiative
 Annual Projects/IELP Initiative

SCHEDULE B (Continued)



- Post Event Reconstruction (GL 83-28, Item 1.2)
 - Upgrade Recorder Power Supplies — Prior to Cycle 10 Startup/IELP Initiative
 - Verify Completion of Safety Injection — Prior to Cycle 10 Startup/IELP Initiative
 - Verify Completion of Containment Isolation — Prior to Cycle 11 Startup/IELP Initiative
- Quality Enhancement Program — September 30, 1988/NG-87-3491
- Relocate PPC VAX Computer — Prior to Cycle 10 Startup/IELP Initiative
- Relocate SPDS Functions on PPC — Prior to Cycle 10 Startup/IELP Initiative
- Safety System Functional Inspection — August 31, 1988
- SPDS Enhancements — During Cycle 10/IELP Initiative
- Training Simulator — June 30, 1990/IELP Initiative
- Turbine Wheel Replacement
 - Replace Low Pressure "A" — Prior to Cycle 10 Startup/IELP Initiative
- Zinc Injection

(Note 2)

Note 1: Schedule not yet certain, awaiting promulgation of NRC requirements.
 Note 2: Potential IELP initiative item. Schedule not yet certain.
 Note 3: Schedule not yet certain.