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 RECIP.NAME RECIPIENT AFFILIATION
 MURLEY,T.E. Office of Nuclear Reactor Regulation, Director (Post 870411)

SUBJECT: Forwards semiannual rept required by "Plan for Intergrated Scheduling of Plant Mods for Dunane Arnold Energy Ctr."

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Iowa Electric Light and Power Company

May 3, 1989
NG-89-1189

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
Semi-annual Report for the "Plan for the
Integrated Scheduling of Plant Modifications
for the Duane Arnold Energy Center"
Reference: W. Rothert letter to T. Murley dated November 3, 1988,
NG-88-3658
File: A-278

Dear Dr. Murley:

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 Duane Arnold Energy Center" (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.

Attachment 1 is a summary of progress in implementing the items listed in Schedules A and B. It lists the ten items which have been completed since the last update (referenced above).

Attachment 2 identifies the changes since the last report. These changes include the revision of four Schedule B commitment dates, the addition of twelve new Schedule B items and the deletion of two 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 this 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
NG-89-1189
May 3, 1989
Page 2

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

Very truly yours,



Daniel L. Mineck
Manager, Nuclear Division

DLM/PLB/pjv+

Attachments: 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: P. Bell
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Commitment Control: 830308, 840307, 850130, 850296, 850297, 850298, 860185,
860387, 860391, 870104, 870122, 870329, 880341, 880437

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

Station Blackout Rule Compliance
Information Submittal required by 10 CFR 50.63(c)(1)

Schedule B

Emergency Response Capabilities (Supplement 1 to NUREG-0737)
Detailed (Supplement 1) CRDR
Phase 2 Long Term Enhancement

Emergency Response Capabilities (Supplement 1 to NUREG-0737)
Regulatory Guide 1.97
Upgrade 1E Power Supplies

Emergency Response Capabilities (Supplement 1 to NUREG-0737)
Regulatory Guide 1.97
Upgrade Instrumentation to Category I

Improved Reactor Vessel Water Level Indication

LPCI Swing Bus Enhancement

Drywell - Steam Tunnel HVAC Modifications
Phase II - Remaining Insulation

Generator Retaining Rings and Rewind

Increased Cooling Tower Capacity

Turbine Wheel Replacement
Replace Low Pressure "A"

Changes in Schedules

Changes to the Schedules fall into four categories: revised descriptions of items, revised completion dates, addition of new items and deletion of 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>
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Schedule A

None

Schedule B

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>		
Design Basis Program	Schedule not yet certain	September 30, 1993
Low Level Radwaste Processing and Storage Facility Improvements	December 31, 1990	Annual Projects
Post Event Reconstruction Upgrade Recorder Power Supplies	April 30, 1989	Prior to startup from Fall 1989 MSIV outage
Training Simulator	June 30, 1990	December 31, 1989

III. New Items

<u>Description</u>	<u>Completion Date</u>
<u>Schedule A</u>	
None	
<u>Schedule B</u>	
Plant Life Extension	Potential IELP initiative item Schedule not yet certain
Technical Specifications Improvements	Potential IELP initiative item Schedule not yet certain
RWCU Piping Replacement	Prior to Cycle 11 startup
Recirc Pump Shaft Replacement (Both Pumps)	Prior to Cycle 12 startup
Hydrogen Water Chemistry for Vessel Internals	Prior to Cycle 12 startup
Motor Operated Valve-Operator Upgrades (IEB 85-03 and Supplement 1 to IEB 85-03)	Prior to Cycle 11 startup
Control Building HVAC and Chillers	Prior to Cycle 12 startup
Replacement of Extraction Steam Pipe to 3A/3B Feedwater Heaters	Prior to Cycle 11 startup
LPCI Swing Bus Enhancement Phase II	Prior to Cycle 11 startup
Containment Performance Improvements	Schedule not yet certain, awaiting promulgation of NRC requirements

<u>Description</u>	<u>Completion Date</u>
<u>Schedule B (continued)</u>	
Severe Accident Management	Schedule not yet certain, awaiting promulgation of NRC requirements/guidance
Emergency Response Capabilities (Supplement 1 to NUREG-0737) Regulatory Guide 1.97 Enhancements	Schedule not yet certain evaluation of scope in progress

IV. Items Deleted

Description

Schedule A

None

Schedule B

Station Blackout Rule Compliance
Modifications Implemented

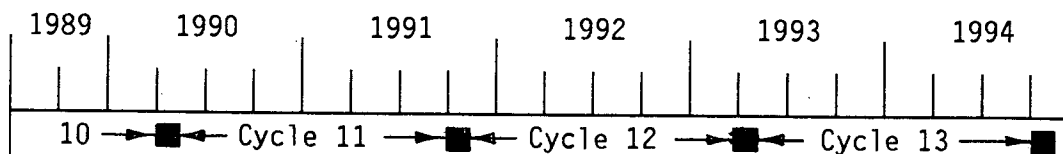
Emergency Response Capabilities (Supplement 1 to NUREG-0737)
Regulatory Guide 1.97
Reroute Cable for Divisional Separation

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>		
Design Basis Program	Completion Date	Pilot program initiated
Low Level Radwaste Processing and Storage Facility Improvements	Completion Date	On-going activity for various projects, not a one-time project
Post Event Reconstruction-Upgrade Recorder Power Supplies	Completion Date	Delay in meeting acceptance test requirement (NG-89-1202)
Training Simulator	Completion Date	Reflect accelerated schedule
Plant Life Extension	New Item	Commence program to maintain PLEX option
Technical Specification Improvements	New Item	Potential item, awaiting approval of BWR Owners' Group submittal.
Recirc Pump Shaft Replacement (Both Pumps)	New Item	Due to high cycle thermal fatigue cracking common to Byron-Jackson Pumps
Hydrogen Water Chemistry for Vessel Internals	New Item	Attempt to mitigate IGSCC in Reactor Vessel Internals
Motor Operated Valve-Operator Upgrades (IEB 85-03 and Supplement 1 to IEB 85-03)	New Item	Improvements being evaluated to ensure valves will reliably function over acceptable range of valve conditions (NG-89-0584)
Control Building HVAC and Chillers	New Item	Design improvements desired to upgrade the capacity and improve the reliability of the HVAC system

Summary of Reasons for Schedule Changes

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
<u>Schedule B (continued)</u>		
Replacement of Extraction Steam Pipe to 3A/3B Feedwater Heaters	New Item	Erosion/Corrosion (tiger striping) found during Cycle 10/11 refueling outage
RWCU Pipe Replacement	New Item	Pipe replacement with IGSCC resistant material
LPCI Swing Bus Enhancements Phase II	New Item	Annunciator, voltage sensing, and breaker coordination enhancements resulting from NRC review of LPCI Swing Bus design (NG-88-3787)
Containment Performance Improvements	New Item	NRC Integration Plan for closure of Severe Accident issues (SECY-88-147)
Severe Accident Management	New Item	NRC Integration Plan for closure of Severe Accident issues (SECY-88-147)
Emergency Response Capabilities (Supplement 1 to NUREG-0737) Regulatory Guide 1.97 Enhancements	New Item	Review of RG 1.97 compliance underway, enhancements may be identified (NG-89-0057)
Emergency Response Capabilities (Supplement 1 to NUREG-0737) Regulatory Guide 1.97 Reroute Cable for Divisional Separation	Deleted	During installation, areas uncovered where further evaluation is necessary. Any necessary modifications will be communicated separately (NG-89-0057)
Station Blackout Rule Compliance Modifications Implemented	Deleted	10 CFR 50.63(c)(1) information submittal indicates no modifications required



SCHEDULE A

- Station Blackout Rule Compliance

Schedule Submittal required
 by 10 CRF 50.63(c)(4)

(Note 4)

SCHEDULE B

NRC Items

- Containment Performance Improvements

(Note 1)

- Emergency Response Capabilities
 (Supplement 1 to NUREG-0737)

Detailed (Supplement 1) CRDR

Phase 3 Long Term Enhancements

Phase 4 Long Term Enhancements

-----•Prior to Cycle 11 Startup/NG-86-4251 to NRC

-----•Prior to Cycle 12 Startup/
 NG-86-4251 to NRC

Regulatory Guide 1.97 Enhancements

(Note 3)

- Individual Plant Examination
- LPCI Swing Bus Enhancements - Phase II
- Motor Operated Valve-Operator Upgrades
 (IEB 85-03 and Supplement 1 to
 IEB 85-03)
- RWCU Piping Replacement

(Note 1)

-----•Prior to Cycle 11 Startup/NG-88-3787 to NRC

-----•Prior to Cycle 11 Startup/NG-89-0584 to NRC

-----•Prior to Cycle 11 Startup/NG-88-3593 to NRC

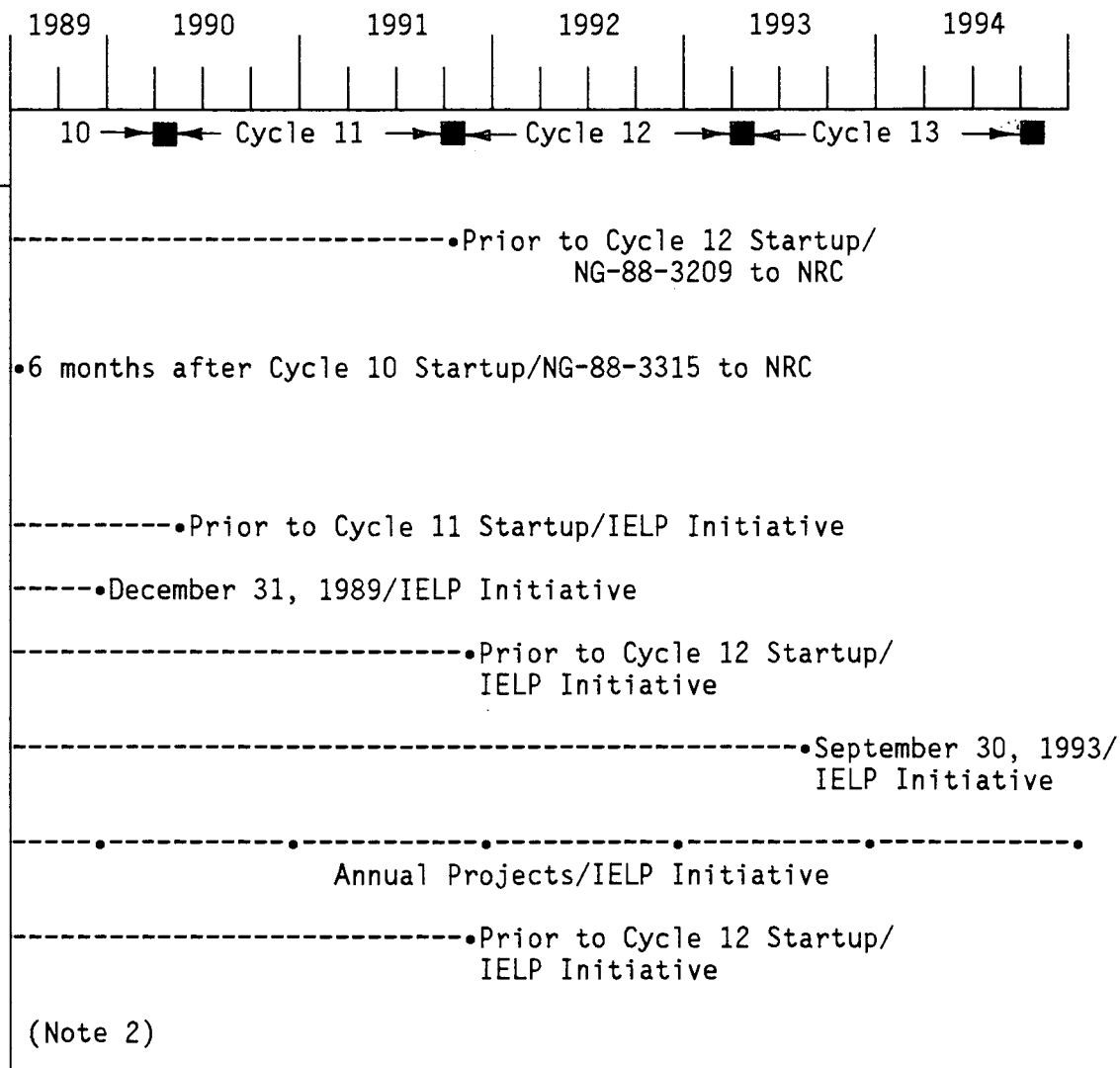
SCHEDULE B (Continued)

- Verification of Seismic Adequacy of Mechanical and Electrical Equipment (USI A-46, GL-87-02)

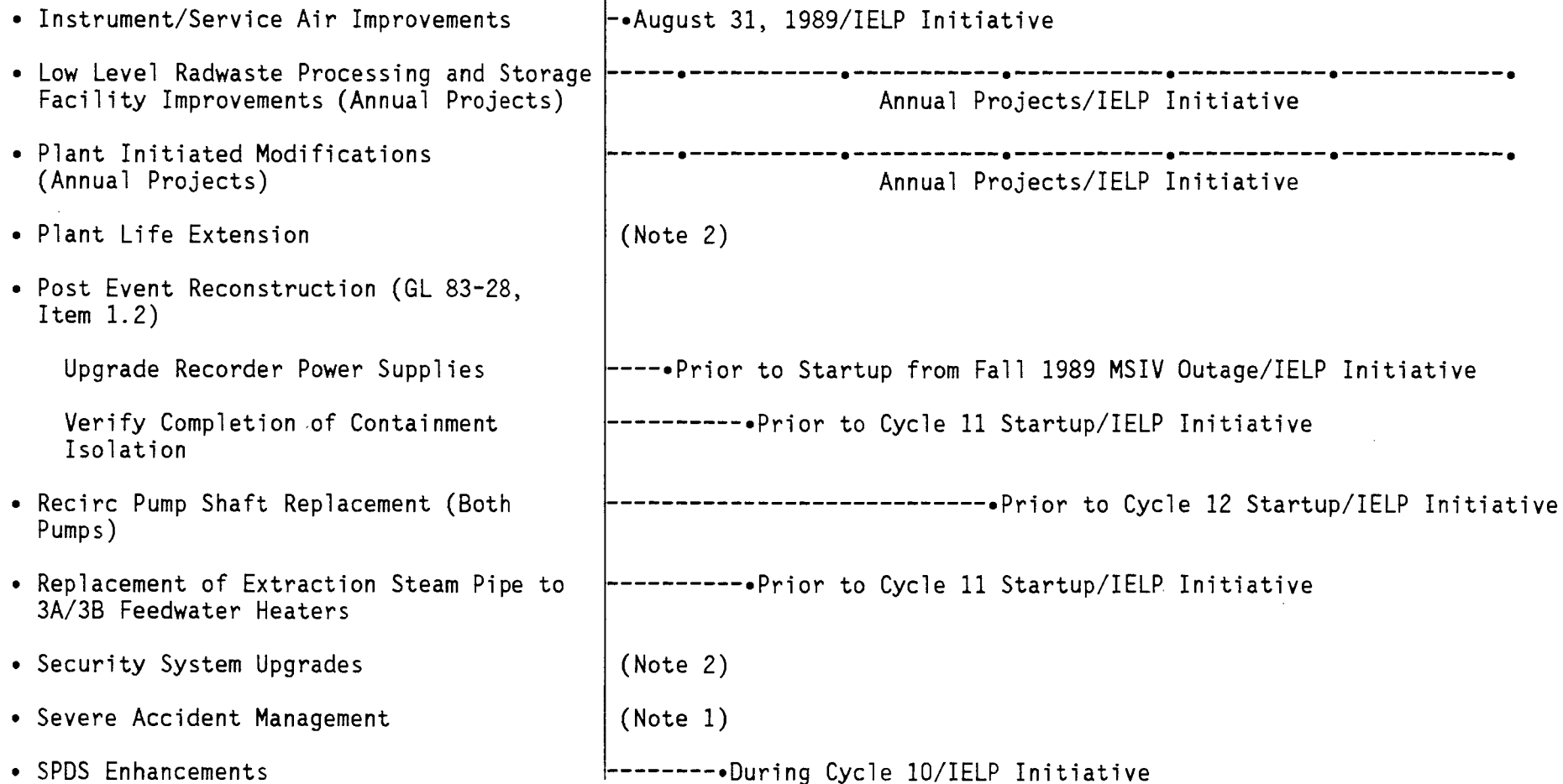
- Verification of Single Failure Assumptions in ECCS Analysis

IELP Initiative Items

- Additional 161 kV Service Breaker
- Breaker Coordination Study
- Control Building HVAC and Chillers
- Design Basis Program
- Fire Protection (ANI Annual Projects)
- Hydrogen Water Chemistry for Vessel Internals
- Hydrogen Water Chemistry Oxygen/Hydrogen Generator

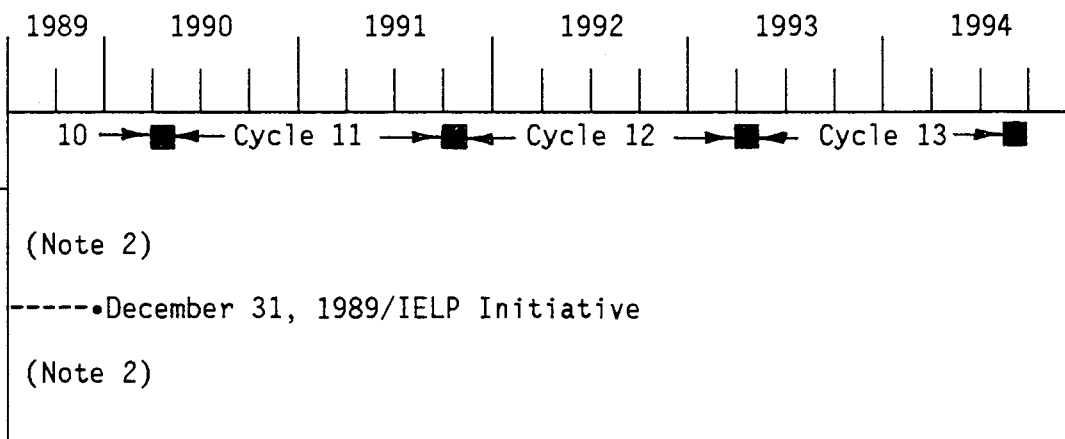


SCHEDULE B (Continued)



SCHEDULE B (Continued)

- Technical Specifications Improvement
- Training Simulator
- Zinc Injection



Note 1: Schedule not yet certain, awaiting promulgation of NRC requirements/guidance.
Note 2: Potential IELP initiative item. Schedule not yet certain.
Note 3: Schedule not yet certain, evaluation of scope in progress, (NG-89-0057).
Note 4: Schedule not yet certain. Due within 30 days of the notification provided in accordance with 10 CFR 50.63(c)(3).