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 MCGAUGHY, R. W. Iowa Electric Light & Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards semiannual rept for "Plan for Integrated Scheduling of Plant Mods for Duane Arnold Energy Ctr," summarizing progress in implementing Schedule A & B items, identifying changes since last rept & providing updated schedules.

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Iowa Electric Light and Power Company

November 4, 1985

NG-85-4240

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

Dear Mr. Denton:

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 November 3, 1985. There are no date changes to Schedule A items.

Attachment 1 is a summary of progress in implementing the items listed in Schedules A and B. It lists the items which have been completed since the last update (IELP letter NG-85-1539, dated May 3, 1985).

Attachment 2 identifies the changes since the last report. These changes include revisions in item descriptions, revised completion dates for Schedule B items and addition of new items. The reasons for the Schedule B 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 the source document supporting the date is identified. However, no source documents are cited for IELP-initiated items listed in Schedule B.

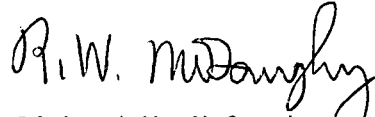
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Please inform us if you have any questions or comments concerning this submittal.

Very truly yours,



Richard W. McGaughy  
Manager, Nuclear Division

RWM/TGD/ta\*

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. Dalton  
L. Liu  
S. Tuthill  
M. Thadani  
J. Keppler  
NRC Resident Office  
Commitment Control

## 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 May 3, 1985, semiannual report, have been completed during this reporting period.

#### Schedule A

Fire Protection Alternate Shutdown (10 CFR 50.48 Appendix R)

Fire Protection Non-Alternate Shutdown; outage related (10 CFR 50.48 Appendix R)

Fire Protection of Additional Structural Steel (10 CFR 50.48 Appendix R)

#### Schedule B

Standby Gas Treatment Overpressure Protection (Containment Purge & Vent)

NUREG-0612 Heavy Loads - Reactor Building Crane

Control Room Design Review (CRDR) Short-Term Modifications, NUREG-0737, I.D.1

Wetwell-Drywell Vacuum Breaker Modifications

Enhance Plume Dispersion Model

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

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

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

Appendix J, Torus Drain Lines Expansion Bellows Modification

Appendix J, RCIC and HPCI Steam Supply Test Connections Modification

SPDS Operable including SPTMS Interface

Detailed (Supplement 1) CRDR, Supplemental DCRDR

Regulatory Guide 1.97, Submit Report on Supplement 1 to NUREG-0737 Requirements

Regulatory Guide 1.97, Submit Schedule of Implementation Dates

EOPs Implementation

ERF Data Acquisition and Display, Provide Date for Fully Functional TSC

ERF Data Acquisition and Display, Provide Date for Fully Functional EOF

Enhance Meteorological System

Post Accident Sampling System (PASS) Enhancements

RPS Pressure Transmitter Replacement

Power Uprate

Material Management Information System

## 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>	
DAEC Second Substation	Power Distribution to New Facilities
Computerized History & Maintenance Planning System (CHAMPS) and Computerized History & Maintenance Planning System Data Collection	<u>Computerized History &amp; Maintenance Planning System (CHAMPS)</u> Software Development Equipment Data Collection
INPO Training Accreditation	INPO Training Accreditation Phase I

#### II. SCHEDULE CHANGES

Reasons for Schedule Changes are explained in Attachment 3.

<u>Description</u>	<u>Current Schedules</u>	<u>Revised Schedules</u>
<u>Schedule A</u>		
ATWS Rule Compliance (10 CFR 50.62)	Uncertain	Prior to Cycle 9 Startup
<u>Schedule B</u>		
Improved Reactor Vessel Water Level Instrumentation	Uncertain	Prior to Cycle 10 Startup
INPO Training Accreditation Phase I Training Facility	December 31, 1986 March 31, 1986	September 30, 1986 September 30, 1986
Relocate SPDS VAX Computer	Prior to Cycle 9 Startup	Prior to Cycle 10 Startup

### III. NEW ITEMS

#### Schedule A

None

#### Schedule B

Regulatory Guide 1.97 - Upgrade 1E Power Supplies  
Regulatory Guide 1.97 - Reroute Cable for Divisional Separation  
Regulatory Guide 1.97 - Upgrade Instrumentation to Category I  
Drywell-Steam Tunnel HVAC Modifications  
Essential Bus Pump Sequencing Modification  
Install New Auxiliary Transformer  
Nitrogen Inerting System Modification (GE SIL 402)

ATTACHMENT 3

Summary of Reasons for Schedule Changes

<u>Item Description</u>	<u>Change</u>	<u>Reason</u>
<u>Schedule A</u>		
ATWS Rule Compliance (10 CFR 50.62)	None	Previously, schedule was uncertain and no completion date was given. Schedule has been determined and a completion date has been set accordingly.
<u>Schedule B</u>		
Improved Reactor Vessel Water Level Instrumentation	None	Previously, schedule was uncertain and no completion date was given. Schedule has been determined and a completion date has been set accordingly.
INPO Training Accreditation Phase I	Accelerated	IELP expedited the completion of our INPO Training Accreditation Phase I at the request of INPO.
Training Facility	Delay	IELP determined that it would be more cost-effective for construction to progress during non-winter months.
Low-Level Radwaste Processing and Storage Facility - Storage Portion	Delay	IELP encountered unforeseeable construction delays and made changes in design to provide additional future flexibility for the building.
Relocate SPDS VAX Computer	Delay	IELP delayed this item as a result of 1986 budgetary constraints.

SCHEDULE A

Upgrade Fire Protection Alternate Shutdown  
 Capability (10 CFR 50.48 Appendix R)

ATWS Rule Compliance (10 CFR 50.62)

SCHEDULE B

Appendix I

Masonry Walls, BN 80-11

Improved Reactor Vessel Water Level  
 Instrumentation

Nitrogen Inerting System Modification (GE SIL 402)

Emergency Response Capabilities  
 (Supplement 1 to NUREG-0737)

Detailed (Supplement 1) CRDR

Summary Report Submittal

Regulatory Guide 1.97

Upgrade 1E Power Supplies

Reroute Cable for Divisional Separation

Upgrade Instrumentation to Category I

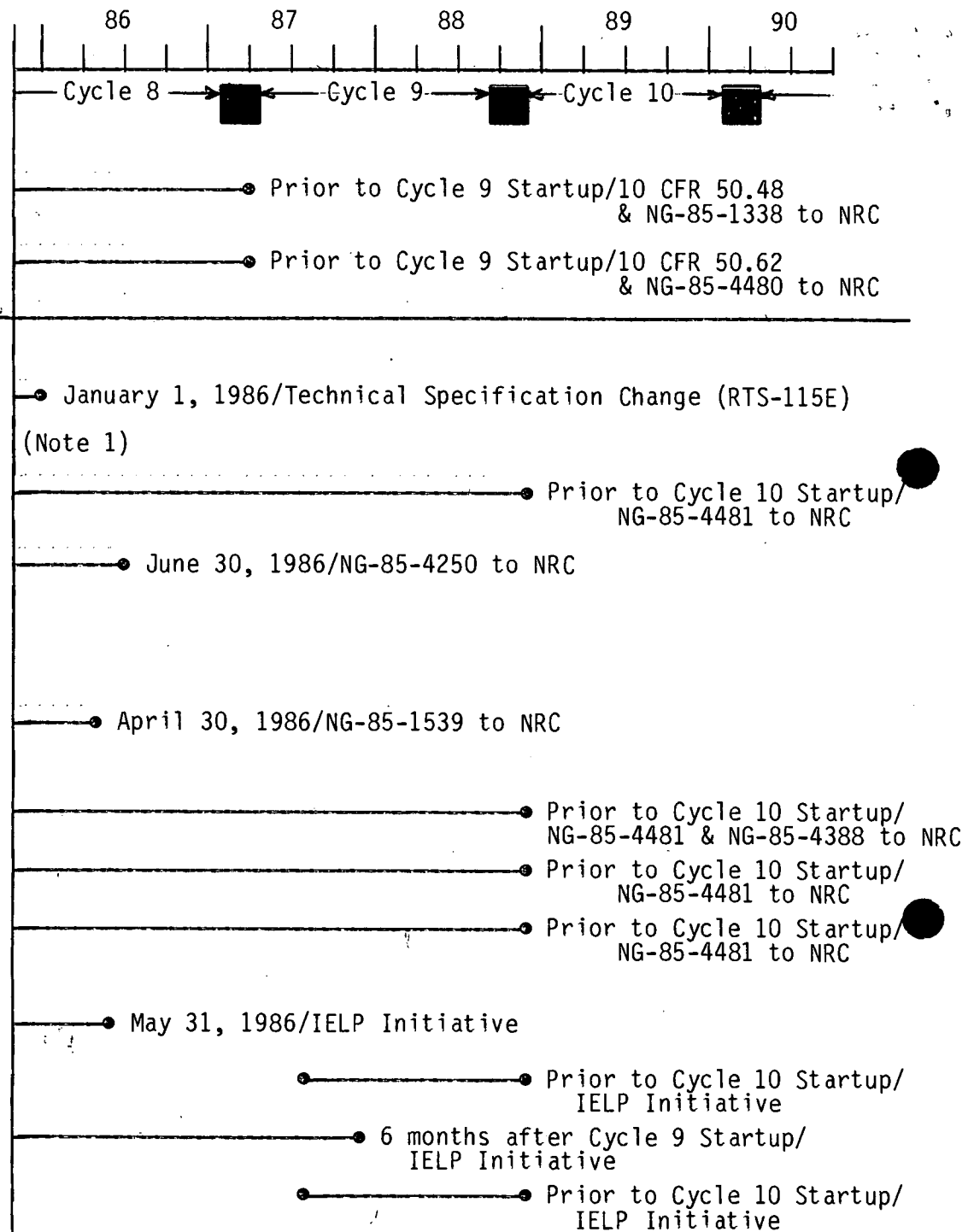
IELP Initiative Items

Construct Data Acquisition Center Facility

Relocate SPDS VAX Computer

Upgrade Plant Process Computer (PPC)

Relocate PPC VAX Computer





SCHEDULE B (Continued)

Low-Level Radwaste Processing and Storage Facility

Storage Portion

Processing Portion

Computerized History & Maintenance Planning System (CHAMPS)

Software Development

Equipment Data Collection

INPO Training Accreditation Phase I

Training Facility

Turbine Wheel Replacement

Replace Low Pressure "B"

Replace Low Pressure "A"

Radiation Exposure Management System

Balance of Plant (BOP) Instrument Calibration

Power Distribution to New Facilities

Drywell-Steam Tunnel HVAC Modifications

Install New Auxiliary Transformer

Essential Bus Pump Sequencing Modification

Fire Protection (ANI Annual Projects)

Plant Initiated Modifications (Annual Projects)

IGSCC Resolution

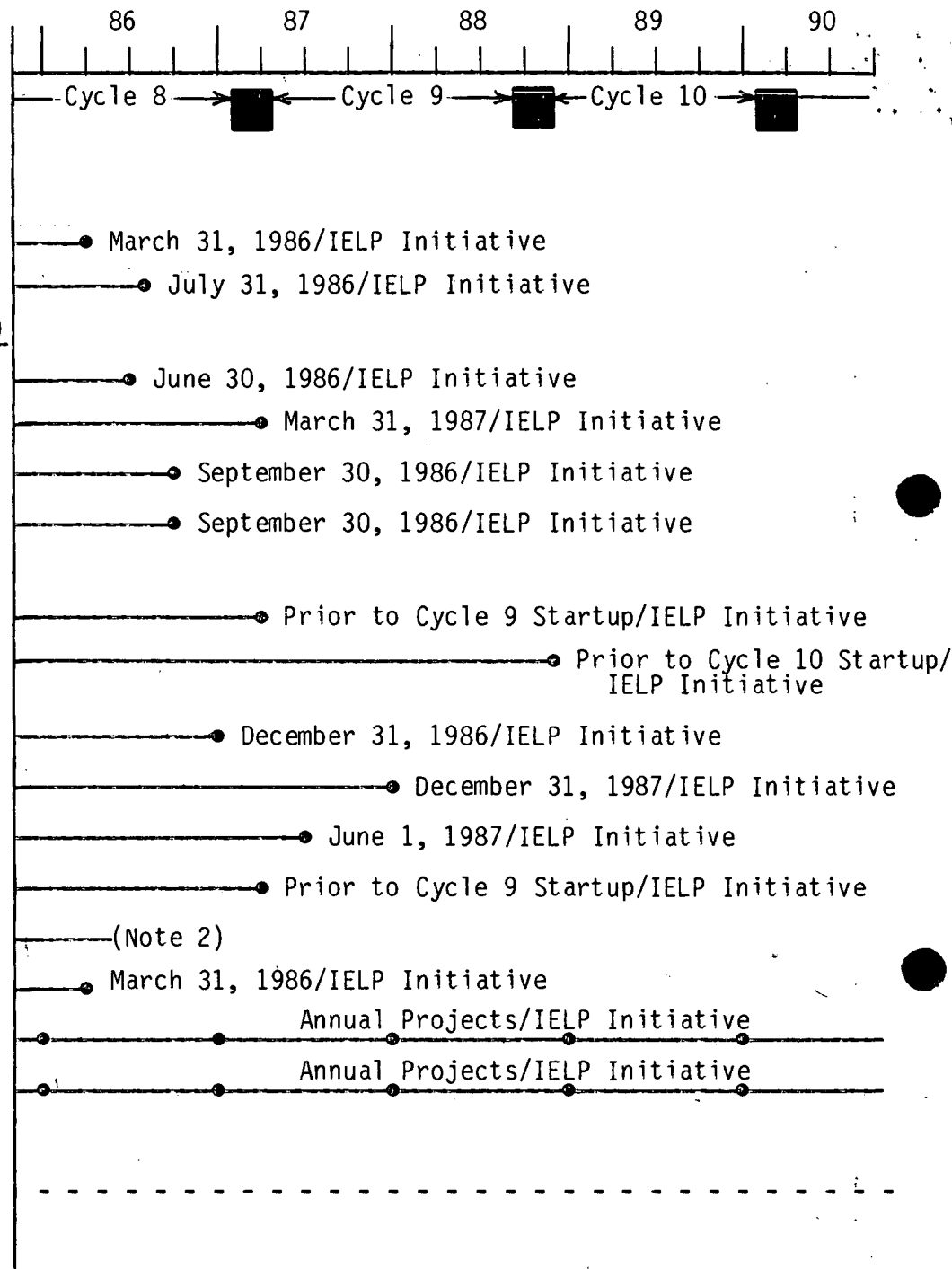
Implement Hydrogen Water Chemistry

Auxiliary Power Upgrade

SPDS Enhancements

Training Simulator

(Note 3)



Note 1: Schedule to be provided January 31, 1986, as described in letter NG-85-4801.

Note 2: First outage (expected duration > 5 days) after April 15, 1986.

Note 3: Potential IELP initiative item. Schedule not yet certain.