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 ROTHERT,W.C. Iowa Electric Light & Power Co.
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 MURLEY,T.E. Office of Nuclear Reactor Regulation, Director (Post 870411)

SUBJECT: Provides semiannual rept for plan for integrated scheduling of plant mods for plant.

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Iowa Electric Light and Power Company

November 3, 1988

NG-88-3658

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 May 3, 1988,
NG-88-1360

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 eleven items which have been completed since the last update (referenced above).

Attachment 2 identifies the changes since the last report. One change involves the division of one Schedule B item, Station Blackout Rule Compliance, into three parts, the elevation of two of those parts to Schedule A, and a change in the schedule for those two parts. Other changes include the revision of the schedule for two Schedule B items, the addition of seven new Schedule B items, and the deletion of one Schedule B item. The reasons for these changes are stated in Attachment 3.

One of the Schedule B changes is a delay in the completion date for the upgrade of recorder power supplies for post-event reconstruction. This upgrade was scheduled to be completed prior to the startup of Cycle 10. However, delays in the delivery of the necessary equipment may prevent the completion of this project before startup. Therefore, we have delayed the schedule to April 30, 1989.

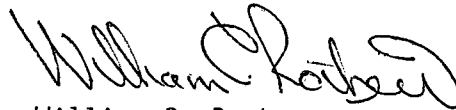
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Dr. Thomas Murley
NG-88-3658
November 3, 1988
Page 2

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

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

Very truly yours,



William C. Rothert
Manager, Nuclear Division

WCR/TLF

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: T. Forker
L. Liu
L. Root
R. McGaughy
J. R. Hall (NRC-NRR)
A. Bert Davis (Region III)
NRC Resident Office
Commitment Control Nos. 830304, 840108, 840313, 850296, 860185,
870290, 870328, and 880166 through 880170

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, 1988 semiannual report, have been completed during this reporting period:

Schedule A

None

Schedule B

Backup Power for TSC

Surveillance Test Evaluation and Enhancement Program

Revise Offsite Emergency Plans

Sewage Treatment Plant Modifications

Balance of Plant (BOP) Instrument Calibration

New Facilities Power Distribution Reliability Improvements

Post Event Reconstruction (GL 83-28, item 1.2)
Verify Completion of Safety Injection

Quality Enhancement Program

Relocate PPC VAX Computer

Relocate SPDS Functions on PPC

Safety System Functional Inspection

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>
<u>Schedule A</u>	
None - was Schedule B item	Station Blackout Rule Compliance Information Submittal required by 10 CFR 50.63(c)(1) Schedule Submittal required by 10 CFR 50.63(c)(4)
<u>Schedule B</u>	
Station Blackout Rule Compliance	Station Blackout Rule Compliance Modifications Implemented

II. Schedule Changes

<u>Description</u>	<u>Current Completion Date</u>	<u>Revised Completion Date</u>
<u>Schedule A</u>		
Station Blackout Rule Compliance		
Information Submittal required by 10 CFR 50.63(c)(1)	Schedule not yet certain, pending promulgation of NRC requirements	April 17, 1989
Schedule Submittal required by 10 CFR 50.63(c)(4)	Schedule not yet certain, pending promulgation of NRC requirements	Schedule not yet certain. Due within 30 days of the notif- ication required by 10 CFR 50.63(c)(3).

II. Schedule Changes (Continued)

<u>Description</u>	<u>Current Completion Date</u>	<u>Revised Completion Date</u>
<u>Schedule B</u>		
Post Event Reconstruction		
Upgrade Recorder Power Supplies Prior to Cycle 10 Startup		April 30, 1989
Station Blackout Rule Compliance		
Modifications Implemented	Schedule not yet certain, pending promulgation of NRC requirements	Schedule not yet certain
Verification of Seismic Adequacy of Mechanical and Electrical Equipment	Schedule not yet certain, pending promulgation of NRC requirements	Prior to Cycle 12 startup

III. New Items

<u>Description</u>	<u>Completion Date</u>
<u>Schedule A</u>	
None	
<u>Schedule B</u>	
LPCI Swing Bus Enhancements	Prior to Cycle 10 Startup
Verification of Single Failure Assumptions in ECCS Analysis	6 months after Cycle 10 Startup
Additional 161 kV Service Breaker	Prior to Cycle 11 Startup
Breaker Coordination Study	December 31, 1989
Instrument/Service Air Improvements	August 31, 1989
Low Level Radwaste Processing and Storage Facility Improvements	December 31, 1990
Security System Upgrades	Potential IELP initiative item. Schedule not yet certain.

IV. Items Deleted

 Description

Schedule A

None

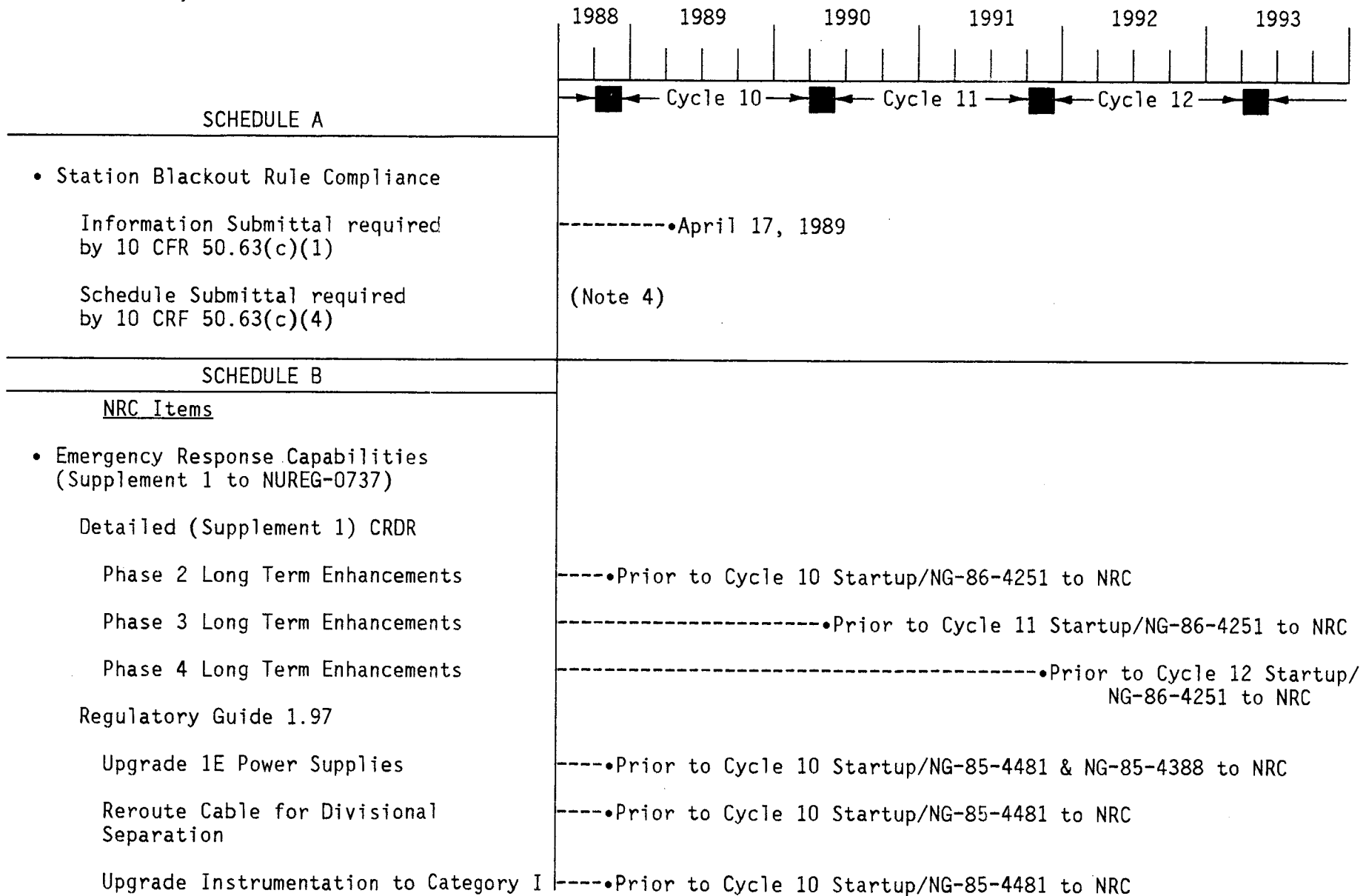
Schedule B

MMIS Bill of Materials Program

Summary of Reasons for Schedule Changes

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
<u>Schedule A</u>		
Station Blackout Rule Compliance		
Information Submittal required by 10 CFR 50.63(c)(1)	Schedule B to A, Description and Completion Date	Issuance of 10 CFR 50.63(c)(1)
Schedule Submittal required by 10 CFR 50.63(c)(4)	Schedule B to A, Description and Completion Date	Issuance of 10 CFR 50.63(c)(4)
<u>Schedule B</u>		
LPCI Swing Bus Enhancements	New Item	Correct design flaw so that swing bus auto-transfers on loss of DC control power
Post Event Reconstruction		
Upgrade Recorder Power Supplies	Completion Date	Equipment failed to meet delivery schedule
Station Blackout Rule Compliance		
Modifications Implemented	Description and Completion Date	Issuance of 10 CFR 50.63(c)(1)
Verification of Seismic Adequacy of Mechanical and Electrical Equipment	Completion Date	NRC issued SER on SQUG submittal
Verification of Single Failure Assumptions in ECCS Analysis	New Item	Confirmatory Action Letter dated 9/2/88 from A.B. Davis to L. Liu
Additional 161 kV Service Breaker	New Item	To improve reliability and facilitate maintenance of the Startup Transformer
Breaker Coordination Study	New Item	Response to GL 88-15
Instrument/Service Air Improvements	New Item	Replacement of air dryer and addition of recloser to increase air quality and reliability

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
<u>Schedule B (Continued)</u>		
Low Level Radwaste Processing and Storage Facility Improvements	New Item	HVAC modifications, storage pedestals in resin vault
Security System Upgrades	New Item	Improve security facilities
Verification of Single Failure Assumptions in ECCS Analysis	New Item	Confirmatory Action Letter dated 9/2/88 from A.B. Davis to L. Liu
MMIS Bill of Materials Program	Deleted	This will be an on-going O&M activity, not a one-time project



SCHEDULE B (Continued)

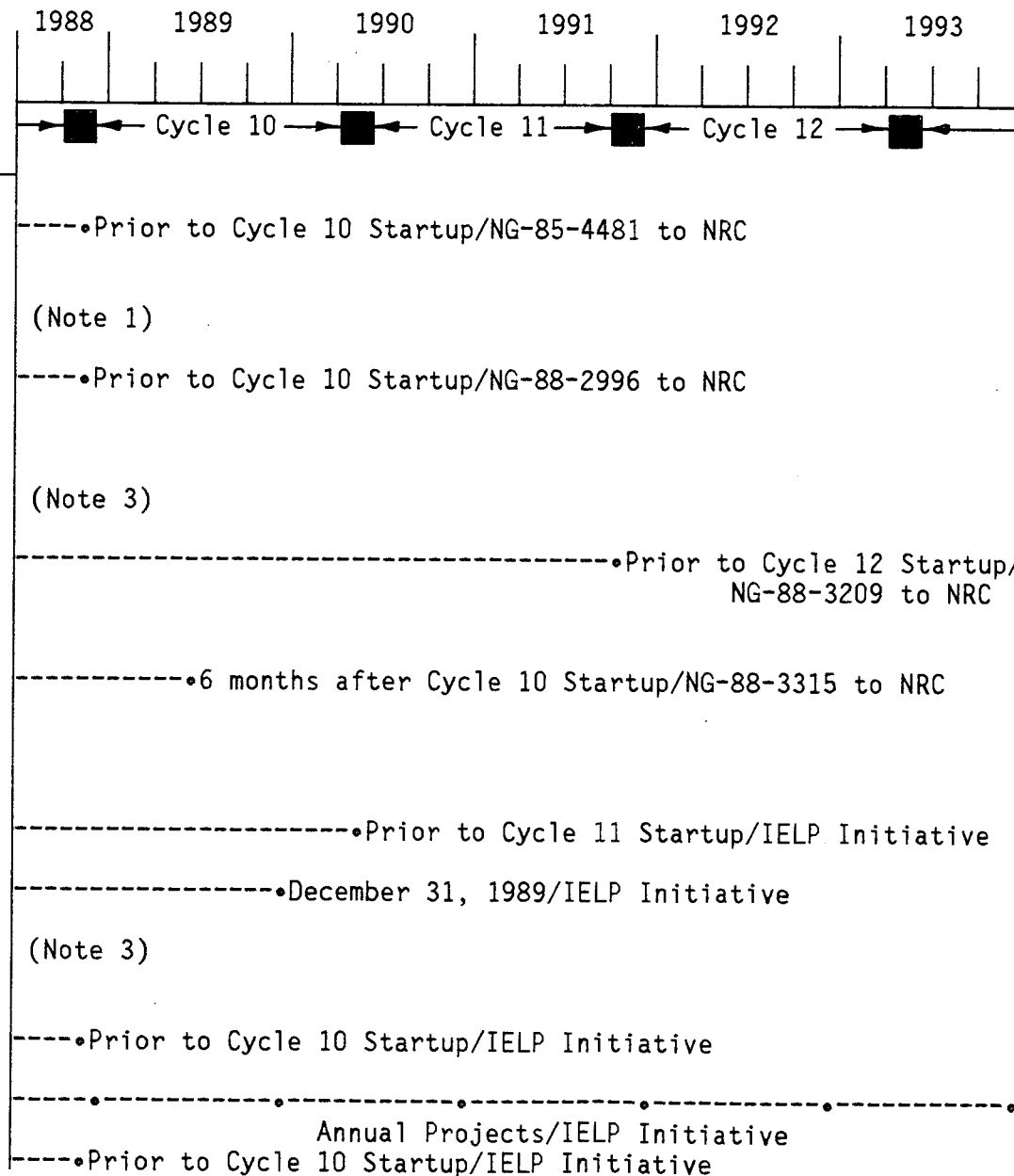
- Improved Reactor Vessel Water Level Instrumentation
- Individual Plant Examination
- LPCI Swing Bus Enhancements
- Station Blackout Rule Compliance

Modifications Implemented

- Verification of Seismic Adequacy of Mechanical and Electrical Equipment (USI A-46, GL-87-02)
- Verification of Single Failure Assumptions in ECCS Analysis

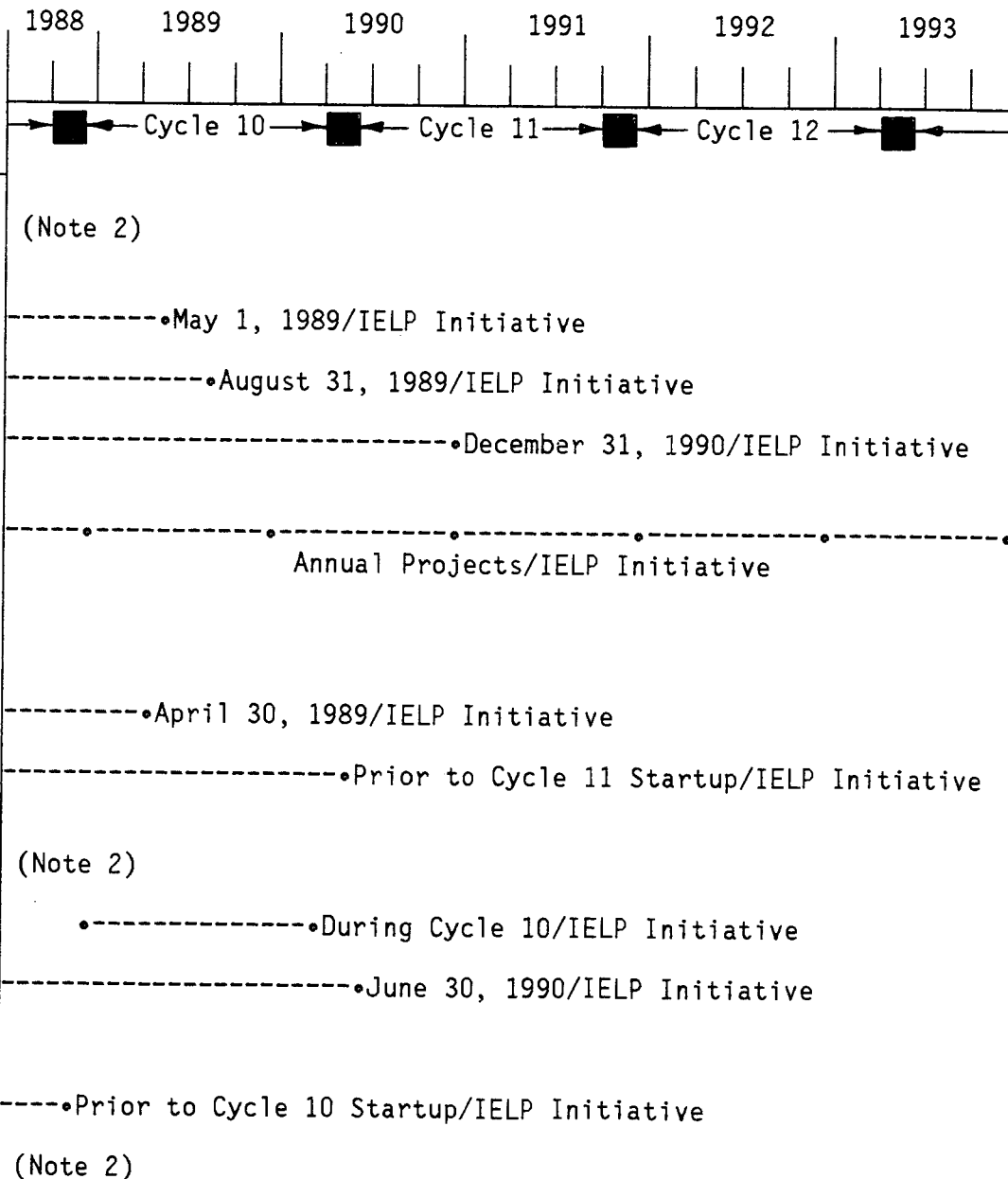
IELP Initiative Items

- Additional 161 kV Service Breaker
- Breaker Coordination Study
- Design Basis Program
- Drywell-Steam Tunnel HVAC Modifications
PHASE II - Remaining Insulation
- Fire Protection (ANI Annual Projects)
- Generator Retaining Rings and Rewind



SCHEDULE B (Continued)

- Hydrogen Water Chemistry Oxygen/Hydrogen Generator
- Increased Cooling Tower Capacity
- Instrument/Service Air Improvements
- Low Level Radwaste Processing and Storage Facility Improvements
- Plant Initiated Modifications (Annual Projects)
- Post Event Reconstruction (GL 83-28, Item 1.2)
 - Upgrade Recorder Power Supplies
 - Verify Completion of Containment Isolation
- Security System Upgrades
- SPDS Enhancements
- Training Simulator
- Turbine Wheel Replacement
 - Replace Low Pressure "A"
- Zinc Injection



Attachment 4 - Page 4 of 4
NG-88-3658
November 3, 1988

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.

Note 4: Schedule not yet certain. Due within 30 days of the notification provided in accordance with 10 CFR 50.63(c)(3).