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MINECK, D.L. Iowa Electric Light & Power Co.
RECIP. NAME RECIPIENT AFFILIATION
MURLEY, T.E. Office of Nuclear Reactor Regulation, Director (Post 870411)

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

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Iowa Electric Light and Power Company

November 3, 1989

NG-89-2786

Dr. Thomas E. 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
Semi-annual Report for the "Plan for the
Integrated Scheduling of Plant Modifications
for the Duane Arnold Energy Center"
Reference: D. Mineck letter to T. Murley dated May 3, 1989,
NG-89-1189
File: A-117, 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 four items which have been completed since the last update (referenced above).

Attachment 2 identifies the changes since the last report. These revisions include changes to the Item Descriptions of three items, the revision of four Schedule commitment dates, the addition of ten new Schedule B items and the deletion of three 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
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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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A. Bert Davis (Region III)
NRC Resident Office
Commitment Control: 830308, 840308, 840309, 860391, 880433, 880434,
880436, 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 May 3, 1989 semiannual report, have been completed during this reporting period:

Schedule A

None

Schedule B

Instrument/Service Air Improvements

Training Simulator

Post Event Reconstruction (GL 83-28, Item 1.2)

Upgrade Recorder Power Supplies

Verification of Single Failure Assumption in ECCS Analysis

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	
<u>Schedule B</u>	
Security System Upgrades	Security Systems Upgrades <ul style="list-style-type: none">•Perimeter Intrusion Detection System Upgrade•Security Computer System Upgrade•Access Control Upgrade
Containment Performance Improvements	Containment Performance Improvements <ul style="list-style-type: none">•Hardened Wetwell Vent (GL 89-16)•Other Containment Performance Improvements
Individual Plant Examination	Individual Plant Examination <ul style="list-style-type: none">•Initial Level I PRA•Containment Performance Analysis•Report Submittal

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>		
Security System Upgrades	Schedule not yet certain	NA
• Perimeter Intrusion Detection System Upgrade	NA	March 31, 1990
• Security Computer System Upgrade	NA	December 31, 1992
• Access Control Upgrade	NA	December 31, 1992
Individual Plant Examination	Schedule not yet certain	NA
• Initial Level I PRA	NA	June 30, 1991
• Containment Performance Analysis	NA	June 30, 1992
• Report Submittal	NA	August 31, 1992
Additional 161 kV Service Breaker	Prior to Cycle 11 Startup	Prior to Cycle 12 Startup
Containment Performance Improvements	Schedule not yet certain	NA
• Hardened Wetwell Vent (GL 89-16)	NA	December 31, 1992
• Other Containment Performance Improvements	NA	Schedule not yet certain

III. New Items

<u>Description</u>	<u>Completion Date</u>
<u>Schedule A</u>	
None	
<u>Schedule B</u>	
Drill/Exercise Utilization of Control Room Simulator	
• Initial Use of Simulator	Full Scale Drill I. (Fall 1990)
• Permanent Use of Simulator	January 31, 1991
Emergency Diesel Generator Reliability Program	August 31, 1990
Emergency Response Data System (GL 89-15)	Schedule not yet certain, awaiting promulgation of NRC requirement/guidance
HPCI Availability Improvements	
• Component Modifications/Upgrades	Prior to Cycle 11 Startup
• System/Component Assessment Study	Prior to Cycle 12 Startup
MSIV Internals Improvements	Prior to Cycle 11 Startup
Power Systems Analysis	December 31, 1991
Safety-Related MOV-Operability/Testing (GL 89-10)	Prior to Cycle 13 Startup
Safety-Related Service Water Program (GL 89-13)	Prior to Cycle 11 Startup
Safety System Functional Inspection	December 31, 1990
Steam Leak Detection System Upgrades	Prior to Cycle 11 Startup

IV. Items Deleted

Description

Schedule A

None

Schedule B

Fire Protection (ANI Annual Projects)

Low Level Radwaste Processing and Storage Facility Improvements
(Annual Projects)

Plant Initiated Modifications (Annual Projects)

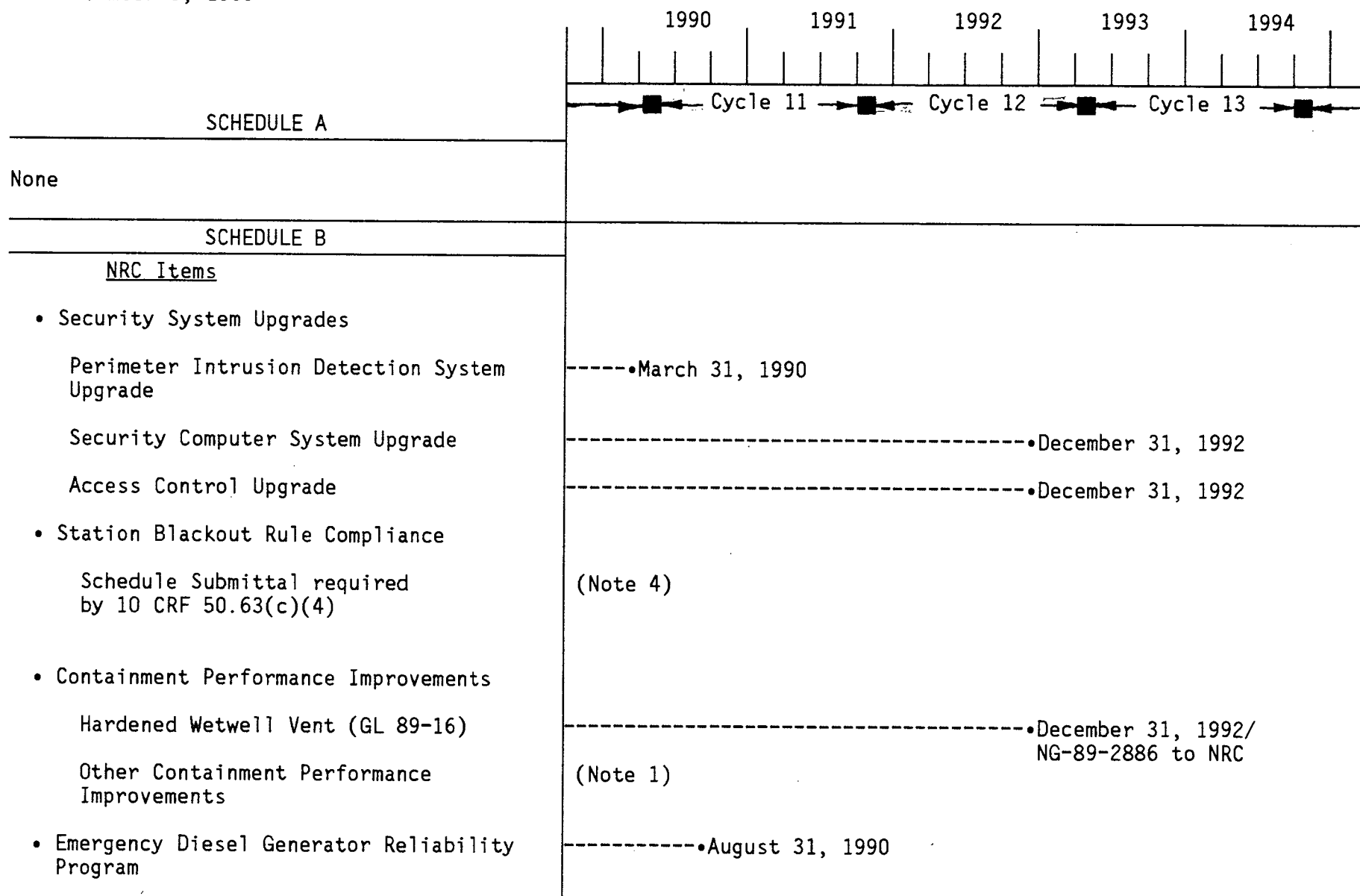
Summary of Reasons for Schedule Changes

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
<u>Schedule A</u>		
None		
<u>Schedule B</u>		
Security System Upgrades <ul style="list-style-type: none"> • Perimeter Intrusion Detection System Upgrade • Security Computer System Upgrade • Access Control Upgrade 	Schedule B from IELP Initiative to NRC Items/ Completion Date/ Item Description	Made commitment by our response to a Notice of Violation
Additional 161 kV Service Breaker	Completion Date	Budgetary constraints
Containment Performance Improvements <ul style="list-style-type: none"> • Hardened Wetwell Vent (GL 89-16) • Other Containment Performance Improvements 	Completion Date/ Item Description	Issuance of GL 89-16
Individual Plant Examination <ul style="list-style-type: none"> • Initial Level I PRA • Containment Performance Analysis • Report Submittal 	Completion Date/ Item Description	Issuance of GL 88-20, Supplement 1
Drill/Exercise Utilization of Control Room Simulator <ul style="list-style-type: none"> • Initial Use of Simulator • Permanent Use of Simulator 	New Item	Increased realism of drills/ exercises and effectiveness of emergency response capabilities
Emergency Diesel Generator Reliability Program	New Item	Maintain current level of EDG reliability
Emergency Response Data System (GL 89-15)	New Item	Issuance of GL 89-15
HPCI Availability Improvements <ul style="list-style-type: none"> • Component Modifications/ Upgrades • System/Component Assessment Study 	New Item	Upgrade system availability through hardware modifications and changes in procedure and preventive maintenance programs

Summary of Reasons for Schedule Changes

<u>Item Description</u>	<u>Change</u>	<u>Explanation</u>
<u>Schedule B (Continued)</u>		
MSIV Internals Improvements	New Item	Improve local leak rate performance
Power Systems Analysis	New Item	Added per GL 88-15, SSFI finding, IN 88-45
Safety-Related MOV Operability/Testing (GL 89-10)	New Item	Issuance of GL 89-10
Safety-Related Service Water Program (GL 89-13)	New Item	Issuance of GL 89-13
Safety System Functional Inspection	New Item	IELP self-initiated item
Steam Leak Detection System Upgrades	New Item	Improve system operation and increase availability of related safety systems
Fire Protection (ANI Annual Projects)	Deleted Item	See Note
Low Level Radwaste Processing and Storage Facility Improvements (Annual Projects)	Deleted Item	See Note
Plant Initiated Modification (Annual Projects)	Deleted Item	See Note

Note: Deleted from the Schedule due to nature of "Annual Projects" items. This item consists of numerous small projects grouped together which, individually, are not significant enough to list on the schedule. Because of the continuous nature of these projects and the difficulty involved in defining the scope, we have elected to delete this item from the schedule.



SCHEDULE B (Continued)

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

Detailed (Supplement 1) CRDR

Phase 3 Long Term Enhancements

Phase 4 Long Term Enhancements

Regulatory Guide 1.97 Enhancements

- Individual Plant Examination

Initial Level I PRA

Containment Performance Analysis

Report Submittal

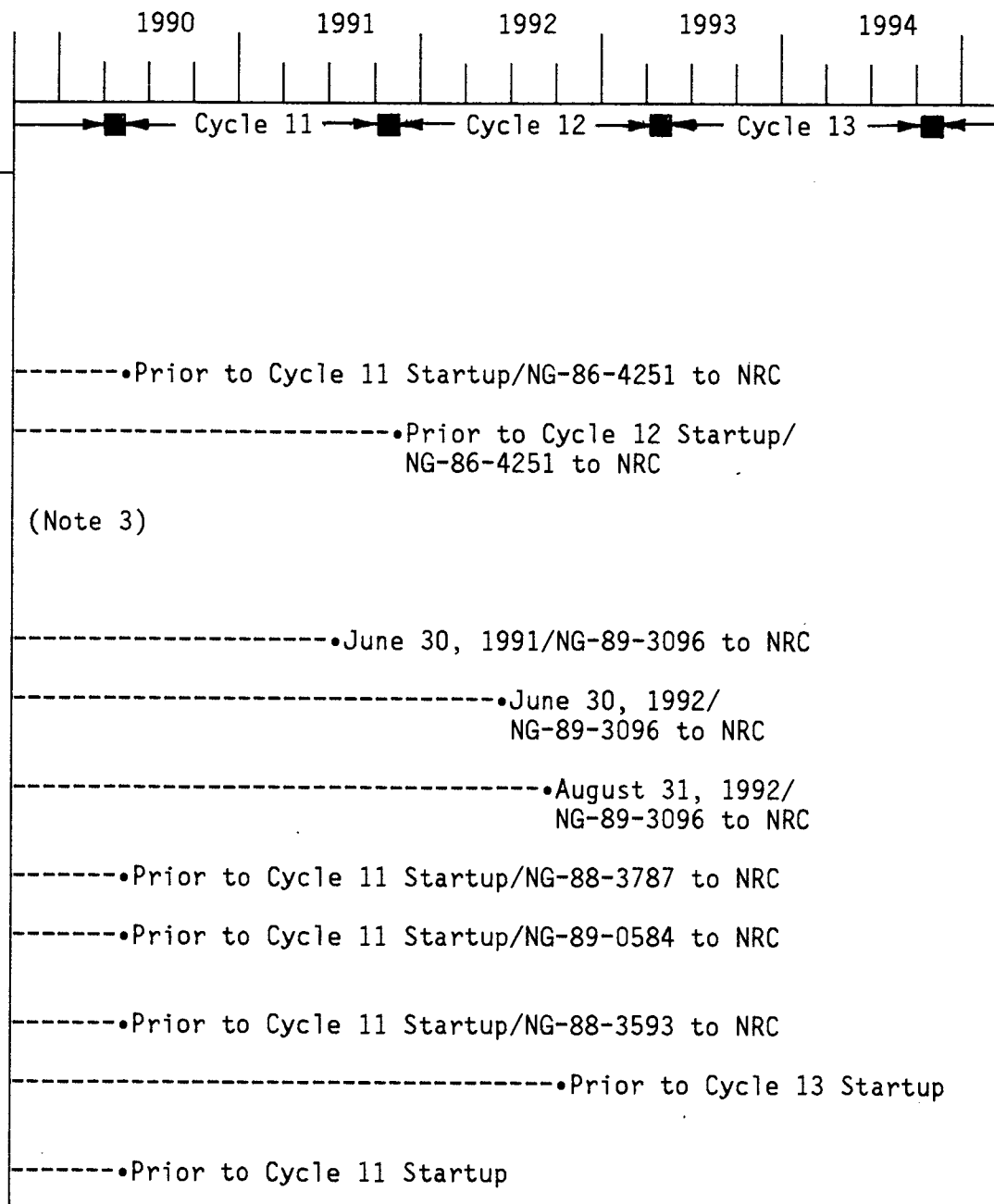
- LPCI Swing Bus Enhancements - Phase II

- Motor Operated Valve-Operator Upgrades
 (IEB 85-03 and Supplement 1 to IEB 85-03)

- RWCU Piping Replacement

- Safety-Related MOV Operability/Testing
 (GL 89-10)

- Safety-Related Service Water Program
 (GL 89-13)



SCHEDULE B (Continued)

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

IELP Initiative Items

- Additional 161kV Service Breaker
- Breaker Coordination Study
- Control Building HVAC and Chillers

- Design Basis Program

- Drill/Exercise Utilization of Control Room Simulator

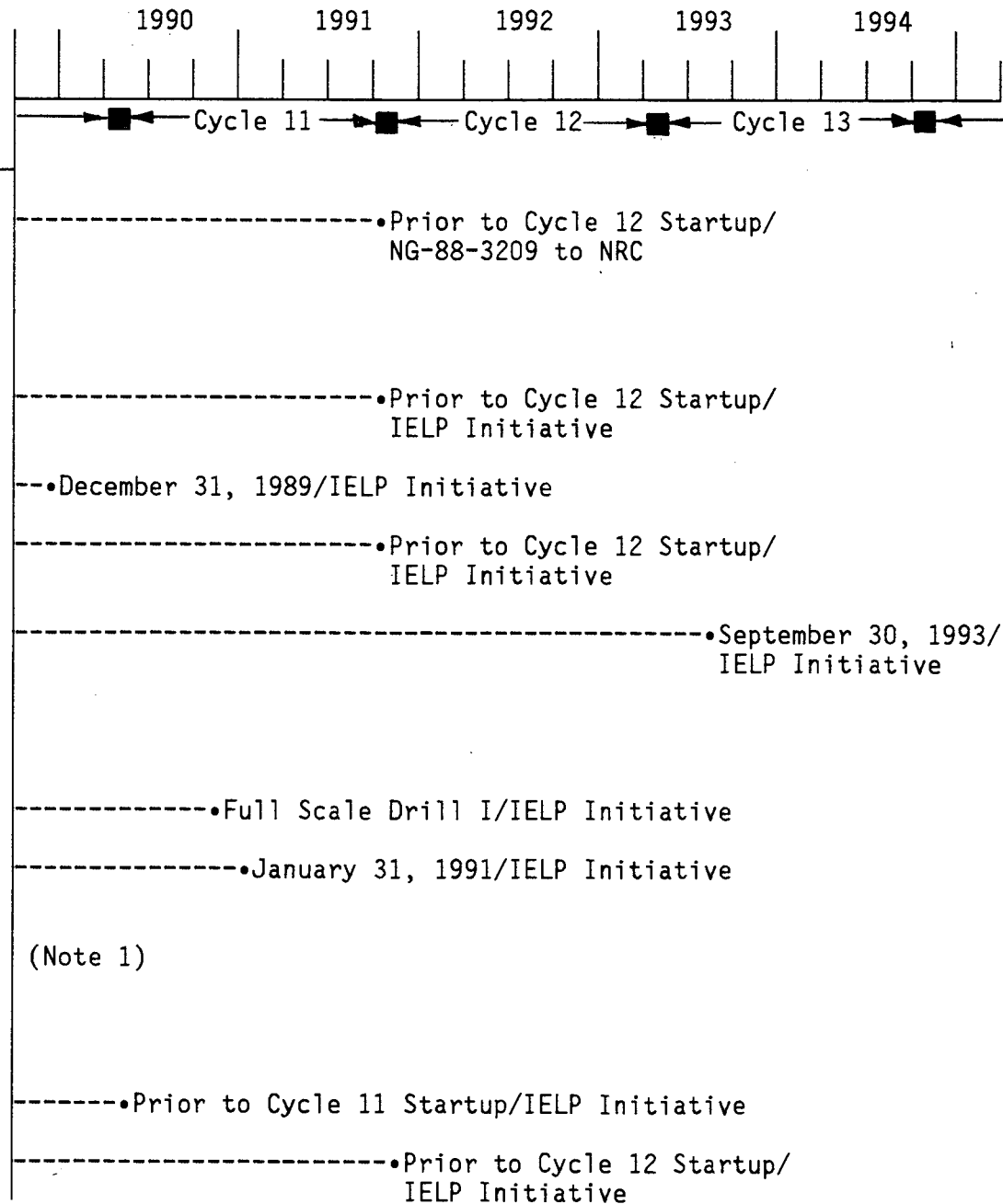
Initial Use of Simulator

Permanent Use of Simulator

- Emergency Response Data System (GL 89-15)
- HPCI Availability Improvements

Component Modification/Upgrades

System/Component Assessment Study

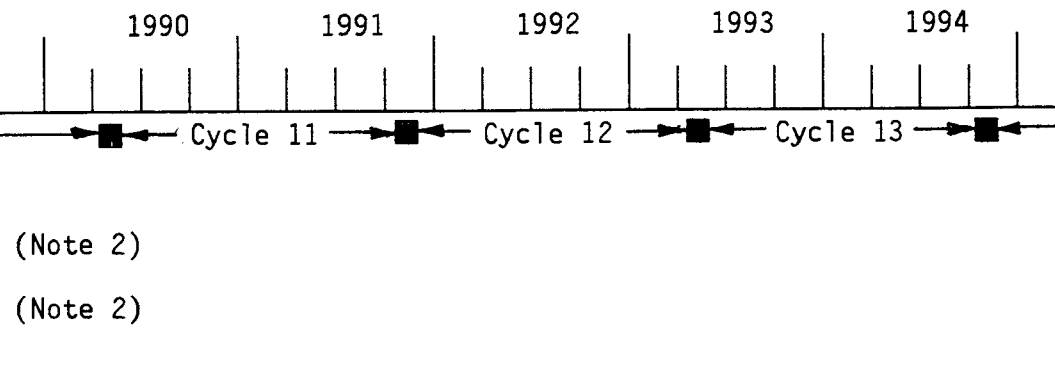


SCHEDULE B (Continued)

	1990	1991	1992	1993	1994
	Cycle 11		Cycle 12		Cycle 13
• Hydrogen Water Chemistry for Vessel Internals				• Prior to Cycle 12 Startup/ IELP Initiative	
• Hydrogen Water Chemistry Oxygen/Hydrogen Generator		(Note 2)			
• MSIV Internals Improvement		• Prior to Cycle 11 Startup/IELP Initiative			
• Plant Life Extension		(Note 2)			
• Post Event Reconstruction (GL 83-28, Item 1.2)					
Verify Completion of Containment Isolation		• Prior to Cycle 11 Startup/IELP Initiative			
• Power Systems Analysis				• December 31, 1991/IELP Initiative	
• Recirc Pump Shaft Replacement (Both Pumps)				• Prior to Cycle 12 Startup/ IELP Initiative	
• Replacement of Extraction Steam Pipe to 3A/3B Feedwater Heaters		• Prior to Cycle 11 Startup/IELP Initiative			
• Safety System Functional Inspection		• December 31, 1990/IELP Initiative			
• Severe Accident Management		(Note 1)			
• SPDS Enhancements		• During Cycle 10/IELP Initiative			
• Steam Leak Detection System Upgrades		• Prior to Cycle 11 Startup/IELP Initiative			

SCHEDULE B (Continued)

- Technical Specifications Improvement
- 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 1D CFR 50.63(c)(3).