UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406

MAY 25 1988

Bill T
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MEMORANDUM FOR: William T. Russell
Regional Administrator

FROM: Samuel J. Collins, Deputy Director
Division of Reactor Projects

SUBJECT: PILGRIM RESTART ASSESSMENT PANEL MEETING MINUTES

On May 19, 1988, the Pilgrim Restart Assessment Panel met via teleconference to discuss the status of NRC and licensee activities associated with the proposed plant Restart. The following personnel were in attendance:

Chairman:	Samuel J. Collins, Deputy Director, DRP
Members:	A. Randy Blough, Chief, Reactor Projects Section No. 3B, DRP
	Bruce A. Boger, Assistant Director for Region I Reactors, NRR
	Richard H. Wessman, Project Directorate I-3, Office of Nuclear Reactor Regulation (NRR)
	Jacque P. Durr, Chief, Engineering Branch, Division of Reactor Safety (DRS)
	Ronald R. Bellamy, Chief, Facilities Radiological Safety and Safeguards Branch, DRSS
Others:	Daniel G. McDonald, Project Manager, NRR
	Lawrence T. Doerflein, Project Engineer, RPS 3B, DRP
	Clay C. Warren, Senior Resident Inspector, Pilgrim
	Jeffrey J. Lyash, Resident Inspector, Pilgrim
	Tae K. Kim, Resident Inspector, Pilgrim
	Frank M. Akstulewicz, Senior Technical Advisor, PTSB, NRR

The panel discussed the issues from the last meeting, as well as the overall integration of NRC inspection and review activities. As a result of the meeting, the below listed actions with responsibility were agreed upon by the Panel.

A panel meeting will be held onsite, June 1, 1988, at 1:00 p.m. (Bridge No. 492-9894). All items below will be updated. No separate agenda will be provided for the June 1 meeting.

	Task	Responsibility	Due Date
1.	Plant Status Update	Resident Inspector	Next Panel
2.	Staffing/Organization Update	Resident Inspector	Next Panel

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	Task	Responsibility	Due Date
3.	Site Inspection Activities Update	Resident Inspector	Next Panel
4.	NRR to ask BECo Licensing the status of once per cycle (OOC) surveillances	McDonald	Next Panel
5.	Update concerns with MSTP	Warren	Next Panel
6.	Review and update NRC Restart checklist, identify items (either currently open or closed) for recheck during IATI	All	Next Panel
7.	Provide OIL Updates	All	Next Panel
8.	Restart Assessment Report Format	Doerflein	Next Panel
	• Update responsibility assignments for all sections	Blough	Next Panel
9.	Independent Assessment Team Inspection Plan	Doerflein	Next Panel
10.	Update IATI Organization Chart/Team Members	Blough	Next Panel
11.	Update Overall Milestone Schedule	Collins	Next Panel
12.	EOP Open Item Status	NRR/DRS	Next Panel
13.	Update Subset Milestone Schedules	All	Next Panel
14.	Update Status of Power Ascension Program Deficiencies	Durr/Blough	Next Panel
15.	Update status of concurrence and issuance of Commonwealth 2.206 Petition response	Wessman	Next Panel
16.	SEP Issues Status	Boger	Next Panel

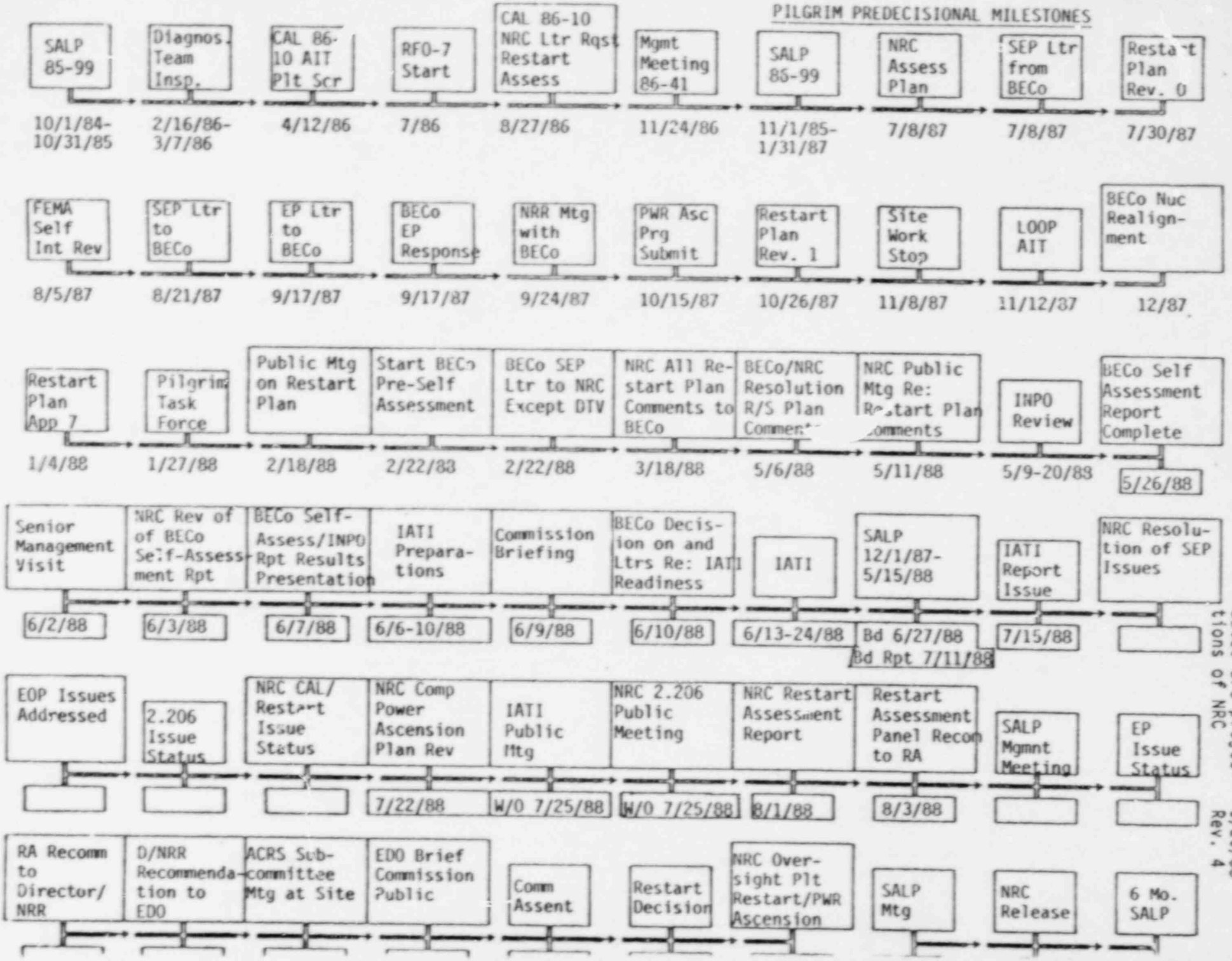
Task	Responsibility	Due Date
17. Approach to 6/9 Commissioner Briefing (5/26 2:00 p.m. pre-brief)	McDonald	Next Panel
18. Approach to ACRS Meeting	McDonald	Next Panel

Samuel J. Collins, Deputy Director
Division of Reactor Projects

Enclosures:
1. Pilgrim Overall Milestone Schedule, Revision 4
2. Pilgrim Subset Milestone Topic Listing, Revision 4

cc w/encls:
T. Murley, NRR
F. Miraglia, NRR
T. Martin, NRR
S. Varga, NRR
B. Boger, NRR
R. Wessman, NRR
D. McDonald, NRR
F. Akstulewicz, NRR
J. Roe, NRR
J. Hannon, NRR
W. Regan, NRR
[redacted], NRR
B. Clayton, EDO
J. Allan, RI
W. Kane, RI
J. Wiggins, RI
R. Blough, RI
G. Sjoblom, RI
J. Durr, RI
R. Bellamy, RI
L. Doerflein, RI
M. Kohl, RI
C. Warren, SRI - Pilgrim
J. Lyash, RI - Pilgrim
T. Kim, RI - Pilgrim

PILGRIM PREDECISIONAL MILESTONES



ENCLOSURE 1

*Blocked Milestone dates are projections of NRC

Pilgrim Milesto
5/25/88
Rev. 4

ENCLOSURE 2

Subset Milestones Topic Listing

	Area	Responsibility
A.	Overall Milestones	S. Collins
B.	Public and State Involvement Meetings with Licensee	R. Blough
C.	NRR Actions for Restart	D. McDonald
D.	Management Transition	C. Warren
E.	Site Inspections/Reviews	R. Blough
F.	Assessment Panel Activities	S. Collins
G.	SALP	C. Warren
H.	EP Status	R. Bellamy
I.	Restart Assessment Report (RAR)	L. Doerflein
J.	Integrated Assessment Team Inspection (IATI)	R. Blough
K.	Power Ascension Program	J. Durr

S. Collins
Pilgrim Subset Milestones
5/25/88
Rev. 4

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF GOVERNMENTAL AND PUBLIC AFFAIRS, REGION I
475 Allendale Road, King of Prussia, Pa. 19406
Tel. 215-337-5330

No. I-88-80 June 1, 1988
Contact: Karl Abraham

NOTE TO EDITORS AND STATION ASSIGNMENT EDITORS

A. Randy Blough, Chief of the Reactor Projects Section that inspects Pilgrim has issued a status report summarizing activities of the inspection staff during the period May 7 - 20, 1988.

The report is attached.

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May 25, 1988

Docket No. 50-293

MEMORANDUM FOR: James T. Wiggins, Chief
Reactor Projects Branch No. 3

FROM: A. Randy Blough, Chief
Reactor Projects Section No. 3B

SUBJECT: PILGRIM STATUS REPORT FOR THE PERIOD MAY 7-20, 1988

Enclosed is the Pilgrim bi-weekly status report from the NRC Resident Office at Pilgrim. Three resident inspectors monitored activities at the plant during the report period. In addition, two fire protection specialists from NRC Headquarters were onsite to review selected fire protection program issues. On May 11, 1988, NRC conducted a public meeting at the Plymouth Memorial Hall in Plymouth, Massachusetts to discuss the evaluation of public comments and concerns expressed during the February 18, 1988 public meeting on the Boston Edison Company's Pilgrim Restart Plan.

The status reports are intended to provide NRC management and the public with an overview of plant activities and NRC inspection activities. Subsequent inspection reports will address many of these topics in more detail.

(Original Signed by)
A. Randy Blough, Chief
Reactor Projects Section No. 3B

Enclosure:
As stated

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ENCLOSURE

PILGRIM STATUS REPORT FOR THE PERIOD MAY 7 - 20, 1988

1.0 Plant Status

As of 8:00 a.m. on May 20, 1988, the reactor was in cold shutdown mode with moderator temperature about 93 degrees Fahrenheit.

2.0 Facility Operations Summary

The plant has been shutdown for maintenance and to make program improvements since April 12, 1986. The reactor core was completely defueled on February 13, 1987 to facilitate extensive maintenance and modification of plant equipment. The licensee completed fuel reload on October 14, 1987. Reinstallation of the reactor vessel internal components and the vessel head was followed by completion of the reactor vessel hydrostatic test. The primary containment integrated leak rate test was completed during the week of December 21, 1987.

3.0 Items of Special Interest

NRC Public Meeting to Discuss Comments on BECo's Pilgrim Restart Plan

On May 11, 1988, NRC conducted a public meeting in Plymouth, Massachusetts to discuss the evaluation of public comments and concerns expressed during the February 18, 1988 public meeting on the Boston Edison Company's Pilgrim Restart Plan. The meeting took place in the town's Memorial Hall from 7:00 p.m. to 11:30 p.m. Because the comments from the February 18 meeting covered a very broad spectrum of issues, the panel of NRC management presented several discussions. Each was designed to be generally informative regarding NRC processes and to respond to the broad range of comments in a given subject area. Also, a handout describing NRC's responses was distributed at the meeting. A forum was provided for state and local elected officials and private citizens to comment and ask questions on NRC's responses. The NRC panel consisted of Mr. Samuel J. Collins, Deputy Director, Division of Reactor Projects, NRC-Region I; Dr. Ronald R. Bellamy, Chief, Emergency Preparedness and Radiological Protection Branch, NRC-Region I; Mr. Jay M. Gutierrez, Regional Counsel, NRC-Region I; and Mr. Bruce Boger, Assistant Director for Region I Reactors, NRC-NRR. The transcription of the meeting will be made available to the public.

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Institute of Nuclear Power Operations Site Visit

The Institute of Nuclear Power Operations (INPO) is an organization composed of, and supported by, electric utilities who own and operate nuclear power plants. INPO assists utilities in improving programs and performance at their nuclear facilities. A twenty-one member INPO evaluation team was onsite at Pilgrim on May 9-20, 1988, for a two-week inspection visit. Team members evaluated the areas of plant operations, maintenance, chemistry, training and qualifications, radiation protection, industrial safety, technical support, and organization and administration.

Licensee's Self-Assessment

The licensee completed a formal management self-assessment of their readiness for restart. The licensee has committed to provide a report of the assessment results to the NRC. NRC will review the results of the licensee's assessment prior to conducting a comprehensive NRC Integrated Assessment Team Inspection.

NRC Assessment Panel Meeting

On May 12, 1988, members of NRC management from Region I and NRR met at the licensee's Chiltonville Training Center and discussed inspection plans with the NRC resident staff. The NRC Assessment Panel meets periodically to coordinate the planning and execution of NRC inspection and licensing activities related to Pilgrim. The panel is chaired by Mr. Samuel J. Collins, Deputy Director, Division of Reactor Projects, NRC Region I.

4.0 Emergency Notification System (ENS) Report

During this period, the licensee made the following report to the NRC pursuant to 10 CFR 50.72:

- On May 17, 1988, at about 11:30 a.m., the licensee inadvertently initiated the "A" train of standby gas treatment and secondary containment isolation systems. Licensee maintenance technicians were preparing to replace three primary containment isolation system logic relay coils. As part of the equipment isolation, a logic power supply fuse was removed. The licensee failed to fully identify the effect of deenergizing this portion of the logic. When the fuse was removed the actuations occurred. The fuse was reinserted and the isolation logic was reset a short time later. NRC review of this event will be documented in Inspection Report No. 50-293/88-19.

5.0 NRC Staff Status During the Period

The inspection staff at Pilgrim during the report period consisted of the following:

Clay Warren --- Senior Resident Inspector

Jeffrey Lyash --- Resident Inspector

Tae Kim --- Resident Inspector

In addition, two fire protection specialists from NRC headquarters were onsite during the week of May 16, 1988, to review the licensee's corrective actions on previous inspection findings. The results of this inspection will be included in routine NRC Resident Inspection Report No. 50-293/88-19.

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475 Allendale Road, King of Prussia, Pa. 19406
Tel. 215-337-5330

No. I-88-88
Contact: Kar[illegible]

June 16, 1988

NOTE TO EDITORS AND STATION ASSIGNMENT EDITORS

A. Randy Blough, Chief of the Reactor Projects Section that inspects Pilgrim has issued a status report summarizing activities of the inspection staff during the period May 21 to June 3, 1988.

The report is attached.

June 10, 1988

Docket No. 50-293

MEMORANDUM FOR: James T. Wiggins, Chief
Reactor Projects Branch No. 3

FROM: A. Randy Blough, Chief
Reactor Projects Section No. 3B

SUBJECT: PILGRIM STATUS REPORT FOR THE PERIOD MAY 21 - JUNE 3, 1988

Enclosed is the Pilgrim bi-weekly status report from the NRC Resident Office at Pilgrim. Three resident inspectors monitored activities at the plant during the report period. In addition, four region-based specialist inspectors were onsite to review the licensee's radiation protection program effectiveness and the licensee's corrective actions on previous inspection findings. On June 2, 1988, Mr. James M. Taylor, NRC Deputy Executive Director for Regional Operations, and Mr. William T. Russell, Regional Administrator, Region I were onsite and toured the station.

The status reports are intended to provide NRC management and the public with an overview of plant activities and NRC inspection activities. Subsequent inspection reports will address many of these topics in more detail.

(original signed by)
A. Randy Blough, Chief
Reactor Projects Section No. 3B

Enclosure:
As stated

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ENCLOSURE

PILGRIM STATUS REPORT FOR THE PERIOD MAY 21 - JUNE 3, 1988

1.0 Plant Status

As of 8:00 a.m. on June 3, 1988, the reactor was in cold shutdown mode with moderator temperature about 95 degrees Fahrenheit.

2.0 Facility Operations Summary

The plant has been shutdown for maintenance and to make program improvements since April 12, 1986. The reactor core was completely defueled on February 13, 1987 to facilitate extensive maintenance and modification of plant equipment. The licensee completed fuel reload on October 14, 1987. Reinstallation of the reactor vessel internal components and the vessel head was followed by completion of the reactor vessel hydrostatic test. The primary containment integrated leak rate test was also completed during the week of December 21, 1987. During this period, the licensee performed routine maintenance and surveillance tests including the local leak rate testing of selected containment isolation valves.

3.0 Items of Special Interest

Maintenance Work Restricted by Licensee Management

On May 27, 1988, Boston Edison management restricted performance of some maintenance tasks at Pilgrim. A licensee self-assessment completed on May 26 identified maintenance program weaknesses. Several concerns regarding the effectiveness of the licensee's program for control of routine and corrective maintenance were also raised by the NRC during a recent maintenance team inspection completed on May 5, as documented in a report issued May 25. In addition, the licensee's Quality Assurance department recently identified similar concerns in the area of maintenance on environmentally qualified equipment. Licensee management concluded that changes to the station maintenance program are warranted, and is developing actions to address the problems. The restrictions on May 27, 1988 involved those maintenance tasks which were not covered by job-specific, detailed, approved station procedures. These jobs were restricted pending an additional management review. Activities such as surveillance testing and maintenance activities that are clearly delineated by detailed procedures were allowed to continue. These restricted maintenance tasks were to be reviewed on a case-by-case basis and then released to the field if either 1) appropriate job-specific procedures or instructions were written and applied, or 2) the additional review confirmed that existing controls were conservative for that job. All work released is being reviewed and approved by the Maintenance Section Manager. The NRC staff considers the additional review to be a prudent measure.

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Licensee's Submittal of the Self-Assessment Report

On May 26, 1988, the licensee submitted to the NRC the Pilgrim Nuclear Power Station Self-Assessment of Readiness for Restart Report and Volume 2, Revision 2 of the Restart Plan. The licensee committed to provide schedules for actions to address matters which were identified as restart issues in the self-assessment report. This information, as well as the licensee's statement regarding readiness for a comprehensive NRC Integrated Assessment Team Inspection (IATI), is expected in a few weeks. NRC staff review of the self-assessment report and additional submittals by the licensee will be completed prior to conducting a IATI.

Licensee's Limited Stop Work Order

On May 19, 1988 the licensee's Quality Assurance Department issued a stop work order on certain maintenance activities involving Environmentally Qualified (EQ) equipment. The NRC equipment environmental qualification regulations require that safety-related electrical equipment be designed and maintained to withstand the effects of an accident, such as high temperatures, humidity, and pressures. The licensee's internal Quality Assurance audits identified several potential deficiencies in EQ maintenance practices. The licensee has been evaluating the items and developing corrective actions which include stringent control of maintenance on EQ equipment and training the maintenance personnel on the full requirements of the EQ program. Although NRC was not involved in the initial stopping of work, the details of this item will be reviewed and documented in the resident inspection report 50-293/88-19.

Recent NRC Inspection Results

On May 31, 1988, NRC Region I issued the inspection report 50-293/88-12 documenting the results of a routine inspection conducted on March 6 - April 17, 1988 by the resident inspectors. Prompt and positive approach to problem investigation and root cause analysis was considered as a licensee strength. The report identified a case of inadequate design control and review as evidenced by the incorrect installation of two reactor water level gauges. Also, weaknesses in test procedures and technical reviews were identified in the pre-operational tests performed on these instruments. The licensee is required to respond in writing within thirty days.

Inspection report 50-293/88-13 was issued on May 26, 1988 documenting the results of a routine inspection conducted on April 11-15, 1988 by two region-based specialist inspectors. Areas inspected included followup on previous inspection findings in the area of material/component integrity and plant modifications and test procedures. The inspectors reviewed eight previous inspection findings and determined that they were satisfactorily addressed by the licensee.

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On June 1, 1988, NRC Region I issued inspection report 50-293/88-14 documenting the results of a routine inspection conducted on April 18-22, 1988 by a region based specialist inspector. Areas inspected included the licensee's Power Ascension Test Program and previous inspection findings. The Power Ascension Test Program was found to be acceptable pending completion of unresolved items and additional review by the NRC staff. Of four previous inspection findings reviewed, three are now resolved and one remains open.

Inspection report 50-293/88-16 was issued on May 24, 1988 documenting the results of a routine safeguards inspection conducted on April 11-14, 1988 by three region-based specialist inspectors. Areas inspected included the licensee's program to upgrade physical security barriers, alarm stations, safeguards contingency plan implementation, and previous inspection findings. The inspectors determined that the progress on security program upgrades is being made. Seven previous inspection findings were reviewed and it was found that four items were satisfactorily addressed by the licensee. Three previous violations on degraded vital area barriers were reviewed and the licensee's actions to prevent recurrence were found adequate. These violations remain open pending an NRC determination regarding enforcement.

On May 25, 1988, NRC Region I issued inspection report 50-293/88-17 documenting the results of a special maintenance assessment team inspection conducted on April 25 - May 5, 1988 by five Region I staff. The purpose of the inspection was to perform an in-depth assessment of maintenance program and management control. No violations of the regulatory requirements were identified. However, significant maintenance program deficiencies were identified which should be addressed by the licensee prior to the plant restart. The licensee was requested to respond in writing within thirty days identifying actions taken or planned to address these deficiencies.

NRC Assessment Panel Meeting

On June 1, 1988, members of NRC management from Region I met onsite and discussed inspection plans with the NRC resident staff. Members of the Office of Nuclear Reactor Regulation participated via teleconference. The NRC Assessment Panel meets periodically to coordinate the planning and execution of NRC inspection and licensing activities related to Pilgrim. The Panel is chaired by Mr. Samuel J. Collins, Deputy Director, Division of Reactor Projects, NRC Region I.

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Scheduled NRC Commission Briefing

On June 9, 1988, a publicly held Commission meeting is scheduled at the NRC offices in Rockville, Maryland to brief the Commissioners on the progress of the Pilgrim restart activities. Representatives of the Boston Edison Company and the NRC staff will independently present the status briefings before the Commission.

4.0 Emergency Notification System (ENS) Report

During this period, the licensee made the following report to the NRC pursuant to 10 CFR 50.72:

On June 2, 1988, the licensee discovered during a routine quarterly surveillance test that both accumulators for the SLCS were low on pressure. There is one accumulator on the discharge piping of each pump which dampens the pulsations from the pump. Each is a steel vessel with a synthetic bladder. The bladder's upper side is charged with nitrogen to about 500 psig. Both accumulators were found with less than 300 psig of nitrogen pressure. The licensee determined that the system was inoperable based on a previous licensee engineering analysis. Peak to peak pressure fluctuations of approximately 30-40% of discharge pressure can occur with zero accumulator pressure. For an accumulator pressure of 300 psig the pressure fluctuations are reduced to 15-20% of the discharge pressure and at 500 psig the fluctuations would be approximately 5%. On June 3, 1988 at 2:10 p.m., the licensee notified the NRC via the ENS of the inoperable SLCS. Several attempts by the licensee to recharge the accumulators were unsuccessful. The details of this item will be documented in the resident inspection report 50-293/88-19.

The Standby Liquid Control System (SLCS) is a backup method for establishing and maintaining the reactor subscritical independent of control rods.

5.0 NRC Staff Status During the Period

The inspection staff at Pilgrim during the report period consisted of the following:

Clay Warren --- Senior Resident Inspector

Jeffrey Lyash --- Resident Inspector

Tae Kim --- Resident Inspector

Four region-based specialist inspectors were onsite to review the licensee's radiation protection program effectiveness and the licensee's corrective actions on previous inspection findings. In addition, a resident inspector from the Susquehanna facility was onsite during the week of May 23, 1988 to assist the resident inspectors. The results of these inspection activities will be documented in the NRC inspection reports 80-293/88-19, 50-293/88-22 and 50-293/88-24, respectively.

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