

AmerGen Energy Company, LLC  
Oyster Creek  
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10 CFR 50 App. E

March 28, 2003  
2130-03-20086

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington DC 20555

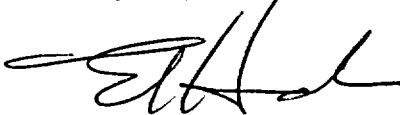
Subject: Oyster Creek Generating Station  
Docket 50-219  
Emergency Plan Implementing Procedure Revisions

In accordance with 10 CFR 50 Appendix E, Section V, enclosed is the revised index for the Oyster Creek Emergency Plan Implementing Procedures and the below listed procedure:

| <u>Procedure Number</u> | <u>Title</u>               | <u>Revision</u> |
|-------------------------|----------------------------|-----------------|
| OEP-ADM-1319.04         | Prompt Notification System | 6               |

If any further assistance or information is required, please contact Mr. John Rogers, of my staff, at 609.971.4893

Very truly yours,



Ernest J. Harkness P.E., Vice President  
Oyster Creek Generating Station

EJH/JJR

cc: Administrator, Region I (2 copies)  
NRC Senior Resident Inspector

A045

**EPIP SERIES - EMERGENCY PLAN IMPLEMENTING PROCEDURES**

| <b><u>PROCEDURE NO.</u></b> | <b><u>TITLE</u></b>  | <b><u>REV.</u></b> |
|-----------------------------|--|--------------------|
| 6630-ADM-4010.03            | Emergency Dose Calculation Manual (EDCM)                       | 11                 |
| EPIP-OC-.01                 | Classification of Emergency Conditions                         | 14                 |
| EPIP-OC-.02                 | Direction of Emergency Response/Emergency Control Center       | 31                 |
| EPIP-OC-.03                 | Emergency Notification   | 29                 |
| EPIP-OC-.06                 | Additional Assistance and Notification                         | 27                 |
| EPIP-OC-.10                 | Emergency Radiological Surveys Onsite                          | 14                 |
| EPIP-OC-.11                 | Emergency Radiological Surveys Offsite                         | 18                 |
| EPIP-OC-.12                 | Personnel Accountability                                       | 9                  |
| EPIP-OC-.13                 | Site Evacuation & Personnel Mustering at Remote Assembly Areas | 10                 |
| EPIP-OC-.25                 | Emergency Operations Facility (EOF)                            | 26                 |
| EPIP-OC-.26                 | The Technical Support Center                                   | 23                 |
| EPIP-OC-.27                 | The Operations Support Center                                  | 15                 |
| EPIP-OC-.31                 | Environmental Assessment Command Center                        | 12                 |
| EPIP-OC-.33                 | Core Damage Estimation   | 6                  |
| EPIP-OC-.35                 | Radiological Controls Emergency Actions                        | 15                 |
| EPIP-OC-.40                 | Site Security Emergency Actions                                | 12                 |
| EPIP-OC-.41                 | Emergency Duty Roster Activation                               | 8                  |
| EPIP-OC-.44                 | Thyroid Blocking   | 2                  |
| EPIP-OC-.45                 | Classified Emergency Termination/Recovery                      | 3                  |
| OEP-ADM-1319.01             | Oyster Creek Emergency Preparedness Program                    | 13                 |
| OEP-ADM-1319.02             | Emergency Response Facilities & Equipment Maintenance          | 14                 |
| OEP-ADM-1319.04             | Prompt Notification System                                     | 6                  |
| OEP-ADM-1319.05             | Emergency Preparedness Event Reports                           | 2                  |

# AmerGen

Telephone No. 609-971-4652 RM Dept.  
DOCUMENT TRANSMITTAL

March 25, 2003

To:  
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FOR NRC-WASHINGTON, DC

*c/o John Rogers  
OCAB 2*

**PLEASE NOTE: IT IS IMPERATIVE THAT YOU NOTIFY RM OF ADDRESS CHANGES!!**

**FILE INSTRUCTIONS:**

OEP-ADM-1319.04 ENTIRE REV. 6

**DESTROY OUTDATED:**

OEP-ADM-1319.04 ENTIRE REV. 5

FAILURE TO COMPLY WITH REQUIRED ACTION, WITHIN FIVE (5) WORKING DAYS OF THIS REQUEST, COULD RESULT IN A CAP.

- REQUIRED ACTION:
1. ADD REVISION TO YOUR CONTROLLED COPIES.
  2. DESTROY OUTDATED MATERIAL.
  3. RETURN TRANSMITTAL SIGNED AND DATED.

SIGN AND RETURN TO: RECORDS MANAGEMENT, OCAB-1

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

YOUR SIGNATURE ON THIS FORM INDICATES THAT YOU HAVE FILED THE CURRENT REVISION. THIS SIGNED FORM CAN BE USED FOR AUDITING PURPOSES.

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

| Title                      | Usage Level | Revision No. |
|----------------------------|-------------|--------------|
| PROMPT NOTIFICATION SYSTEM | 3           | 6            |

Prior Revision 5 incorporated the  
following Temporary Changes:

N/A

This Revision 6 incorporates the  
following Temporary Changes:

N/AList of Pages

1.0 to 10.0  
E1-1  
E2-1  
E3-1 to E3-2  
E4-1 to E4-3  
E5-1 to E5-4  
E6-1 to E6-4  
E7-1 to E7-2  
E8-1  
E9-1 to E9-4  
E10-1  
E11-1  
E12-1 to E12-2  
E13-1  
E14-1

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**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**6**PROCEDURE HISTORY

| REV | DATE  | ORIGINATOR     | SUMMARY OF CHANGE  |
|-----|-------|----------------|--|
| 7   | 10/94 | A. Smith       | Title change from Group Supervisor TE&M to Security OPS & Maint. Supervisor or DESIGNEE. Change heater surveillance from 3rd Qtr. to once a calendar year. Allow other person to perform tests other than GPU Energy Tech. |
| 8   | 03/95 | A. Smith       | Clarify notification to the NJOEM and OCOEM concerning spurious siren activation. Add note not to reset sirens until field testing completed. Put yearly Growl Test by West Trenton in note form.                          |
| 0   | 02/96 | D. VanNortwick | Remove requirements/references for tone alert radios.  |
| 1   | 04/97 | D. VanNortwick | Remove requirements/reference for Annual Growl Test from NJOEM Hqtrs West Trenton, NJ.   |
| 2   | DOS   | A. Smith       | Change references from GPU or GPUN to OCNGS.   |
| 3   | 11/00 | A. Smith       | Include Maintenance surveillance requirements.   |
| 4   |       | A. Smith       | Change responsibility for sirens from Security Analyst to I&C Supervisor. Clarifying Quarterly Growl Test can be used for bi-weekly silent correct titles.   |
| 5   | 09/02 | P. Thompson    | Update responsibilities clarify use of system status test to meet "silent" test requirements.  |
| 6   | 03/03 | P. Thompson    | Add EX 14-shiftly checks of siren control system. Update references, Reflect change in supervision, specify issuance of a CAP for any siren failure  |

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

6

**1.0** PURPOSE

- 1.1 This procedure provides a basic description of the Oyster Creek Prompt Notification System (PNS), and describes the PNS Surveillance requirements.
- 1.2 The PNS consists of 42 sirens located throughout the 10 mile Emergency Planning Zone (EPZ) Exhibit 10. The sirens may be activated individually, or as an entire system. Full duration sounding (3 minutes) of the sirens alerts personnel in the EPZ to turn on their radios and/or televisions for emergency information provided under the Emergency Alert System (EAS). The PNS is maintained by OCGS and controlled at the Ocean County Sheriff's Office by appropriate County officials.

**2.0** APPLICABILITY/SCOPE

- 2.1 This procedure applies to the routine administration and maintenance of the Prompt Notification System.
- 2.2 This procedure addresses the routine surveillance testing of the PNS system including System Status Test (silent test), Quarterly Growl Test, Annual Sounding, and testing of the Siren Freeze Protection.
- 2.3 Reports of Prompt Notification System malfunctions shall be reported in accordance with Procedure OP-OC-106-101 " Significant Event Notification and Reporting".

**3.0** DEFINITIONS**3.1** Annual Test

This verifies the Prompt Notification System operation with an actual activation of the system for three minutes and may be conducted in conjunction with a Plant exercise.

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**6****3.2 Central Control Station (CCS)**

Module that consists of a microcomputer, color monitor, printer, and ATI REACT-1000 Central Control Unit (CCU) used to initiate activation and status monitoring functions.

**3.3 Central Control Unit (CCU)**

Module that consists of the processor system and an FM Radio that controls each Remote Station (Remote).

**3.4 Growl**

Indicates that one of the two acoustic sensing devices has been triggered by the siren sounding.

**3.5 Mailing Year**

A period beginning January 1 and ending on December 31 of each year.

**3.6 No Reply**

Radio or Power Failure occurs when the Central Control Station cannot make radio contact with a Remote Unit.

**3.7 PNS - Oyster Creek Prompt Notification System.****3.8 Quarterly Growl Test**

This verifies the Prompt Notification System and including operation of the communications section the controller/motor of the siren. This test includes a short duration sounding of each siren.

**3.9 Radio Contact Status Normal**

Indicates that radio communication between the Central Control Station and the Remote Unit has been verified and that there are not abnormal sensor states at the Remote Unit.

|                            |              |
|----------------------------|--------------|
| Title                      | Revision No. |
| PROMPT NOTIFICATION SYSTEM | 6            |

3.10 Remote Station (Remote)

Module that consists of a Microprocessor Card, Input/Output Card, Communications Card, Bus Power Supply Card, Relay Control Card, Card Cage, Front Panel Assembly, Terminal Block Assembly Mounting Bracket, and an FM Radio.

3.11 Siren Emergency

A failure of PNS equipment that results in a loss of 10 or more sirens of the Prompt Notification System. This condition constitutes an emergency as described in the Agreement and Supplements between AmerGen and Local Unions 327, 1289, 1298, 1303, 1309, 1314 (Clerical and Operation) of the International Brotherhood of Electrical Workers, Section 8.12.

3.11.1 IF 4 or more sirens Fail during a surveillance, repairs should begin as soon as possible.

3.12 Silent

Indicates that the Silent Test Relay has been activated at the Remote Unit.

3.13 Siren Overrun

Indicates that the Siren Run condition has been sensed at the Remote unit for longer than the duration of the activation (3 minutes).

3.14 Siren Run

Indicates that the Remote Unit has sensed power to the siren.

3.15 Sync Error

Indicates that the Remote Unit has received a message which does not have the correct security code.



|                            |              |
|----------------------------|--------------|
| Title                      | Revision No. |
| PROMPT NOTIFICATION SYSTEM | 6            |

3.16 System Status Test (Silent Test)

This verifies the operation of the communications section of the Prompt Notification System, but does not sound the siren. This test meets the objectives for testing per Reference 6.2 Appendix 3 Section h.

3.17 System Status Report

A report displayed on the Central Control Station CRT and printed to the system printer providing the date and time and the status of each of the following siren functions.

- Siren Number
- Date
- Time
- AC Fail
- Door (Intrusion Alarm)

4.0 PROCEDURE

4.1 The Emergency Preparedness Section - Oyster Creek shall ensure completion of the administrative actions identified in Exhibit 1 periodically as required.

4.2 Historical records will be maintained for each siren and major component of the PNS. This record will consist of periodic test results, maintenance history, and significant events affecting each siren such as inadvertent activation, damage, or vandalism.

4.2.1 Records shall be maintained in accordance with the Divisions  
Records Retention Schedule.

4.3 Malfunctions of one or more sirens will be corrected in accordance with action identified in Exhibit 2.

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

6

4.4 Surveillances of the Prompt Notification System shall be completed using the appropriate exhibit for the specific surveillance required.

4.4.1 Exhibit 3, Preliminary Setup

4.4.2 Exhibit 4, System Status Test

4.4.3 Exhibit 5, Quarterly Growl Test

4.4.4 Exhibit 6, Annual Test

4.4.5 Exhibit 7, Siren Freeze Protection

4.4.6 Exhibit 8, Actions for Siren Malfunction During a Surveillance

4.4.7 Exhibit 13, Annual Siren Surveillance

4.5 Documentation

4.5.1 The results of each test shall be documented by the Communications Technician or qualified person conducting the test by maintaining the System Status Reports and Activation Verification Reports.

4.5.2 The completed reports and forms shall be reviewed by, IT Supervisor or his designee.

4.5.2.1 The reviewed documents shall be forwarded to the Oyster Creek Records Center for retention.

4.5.2.2 Each siren that fails shall be documented in a CAP.

4.5.2.3 When an adverse trend in siren failures is identified it shall be documented in the CAP system for trending.

4.5.3 The Emergency Preparedness Section shall summarize the historical data for each siren.

|                                   |              |
|-----------------------------------|--------------|
| Title                             | Revision No. |
| <b>PROMPT NOTIFICATION SYSTEM</b> | <b>6</b>     |

**5.0 RESPONSIBILITIES**

5.1 The Emergency Preparedness Section - OC has overall responsibility for:

- 5.1.1 Ensuring periodic testing is performed in accordance with this procedure.
- 5.1.2 Ensuring records pertaining to the system are maintained.
- 5.1.3 Ensuring reports of test results are prepared in a timely manner.
- 5.1.4 Ensuring emergency repair for non-functioning PNS sirens are initiated.
- 5.1.5 Ensuring parts and materials required for system operation are maintained.

5.2 The Surveillance Coordinator is responsible for ensuring tracking completion of required surveillances described in this procedure.

5.3 In accordance with the New Jersey Radiological Emergency Response Plan (NJRRERP), the Emergency Management Coordinator, Ocean County is responsible for:

- 5.3.1 Directing the activation of the PNS during declared emergencies and when pre-arranged, during drills or exercises.
- 5.3.2 Arranging for alternate route alerting in municipalities affected by a non-functioning siren.
- 5.3.3 Notifying the Oyster Creek on-shift Shift Manager (SM) of any report received of a spurious activation or malfunctioned siren.

5.4 Information Technology

- 5.4.1 Notifying the Emergency Preparedness Section - OC during normal work hours, of any non-functioning system sirens.

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**6**

5.4.1.1 The On-Duty Shift Manager (SM) or designee shall be notified during off-normal work hours of any non-functioning system sirens.

5.4.2 Coordinating, scheduling, and supervising AmerGen Maintenance technicians in the activities required to maintain and test the system.

5.4.3 Providing the Emergency Preparedness Section - OC with a list of spare parts and materials required to maintain the system operational.

5.4.4 Reviewing and forwarding Siren Test Results to Oyster Creek Emergency Preparedness Section upon completion of the appropriate tests.

5.5 The Oyster Creek on-shift Site Shift Manager (SSM) shall ensure the notifications specified in Procedure OP-OC-106-101, "Procedure for Notification of Station Events" upon notification of an inadvertent activation or a failure of 4 or more sirens of the Prompt Notification System are performed.

**6.0 REFERENCES**

6.1 2000-PLN-1300.01, OCGS Emergency Plan.

6.2 NUREG 0654

6.3 10 CFR 50, Appendix E.

6.4 10 CFR 50.72

6.5 New Jersey Radiological Emergency Response Plan, Annex B, Oyster Creek.

6.6 Agreement between the County of Ocean and AmerGen regarding Public Alert System - January 13, 1982.

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**6**

6.7 OCGS Procedure No. OP-OC-106-101, Procedure for Notification of Station Events.

**7.0 EXHIBITS**

- 7.1 Exhibit 1, Prompt Notification System Administrative Tasks
- 7.2 Exhibit 2, Prompt Notification System Malfunctions
- 7.3 Exhibit 3, Prompt Notification System Surveillance Preliminary Setup
- 7.4 Exhibit 4, Prompt Notification System Surveillance System Status Test
- 7.5 Exhibit 5, Prompt Notification System Surveillance Quarterly Growl Test
- 7.6 Exhibit 6, Prompt Notification System Surveillance Annual Test
- 7.7 Exhibit 7, Prompt Notification System Surveillance Siren Freeze Protection
- 7.8 Exhibit 8, Prompt Notification System Surveillance actions for Siren Malfunction During a Surveillance
- 7.9 Exhibit 9, Prompt Notification System, Siren Location
- 7.10 Exhibit 10, Prompt Notification System Repair Record
- 7.11 Exhibit 11, PNS Historical Record
- 7.12 Exhibit 12, Siren Heater Freeze Test
- 7.13 Exhibit 13, Siren Surveillance.

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

**OEP-ADM-1319.04**

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**6****EXHIBIT 1****PROMPT NOTIFICATION SYSTEM ADMINISTRATIVE TASKS**

- 1.0 Submit budgeting and funding request for maintenance and testing of the PNS.
- 2.0 Establish a surveillance schedule by December for the following year.
- 3.0 Ensure surveillances are conducted in accordance with established procedures.
- 4.0 Prepare a monthly report and distribute it to the New Jersey Office of Emergency Management. The report will summarize surveillance testing results and system operability, during the previous calendar month and year-to-date.
- 5.0 Prepare an annual report during the first quarter of each year that summarizes the PNS performance, improvements, and deficiencies encountered during the previous calendar year.
- 6.0 Prepare an annual certification that provides response to the requirement outlined in NUREG 0654 Appendix 3, Paragraph C.3.h. This report will be distributed to the New Jersey Office of Emergency Management.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 2

## PROMPT NOTIFICATION SYSTEM MALFUNCTIONS

- 1.0 When a siren malfunction is reported, the Control Room will notify the Emergency Preparedness Section, who will in turn notify the Oyster Creek IT Supervisor for repair.
- 1.1 Inadvertent Activation
- 1.1.1 The police organization of the affected municipality may notify the plant through site Security or the Control Room regarding the sounding of one or more sirens.
- 1.1.2 The Group Shift Supervisor shall ensure notifications of the inadvertent activation are made in accordance with Procedure OP-OC-106-101, "Significant Event Notification and Reporting".
- 1.1.3 Connective Company has agreed to disconnect power to any siren within their territory that inadvertently activates and continues to sound.
- 1.1.4 The public should be notified of the inadvertent activation via the Emergency Alert System as delineated in the N.J. Radiological Emergency Response Plan via the N.J. Office of Emergency Management when verified by the Ocean County OEM via the Ocean County Sheriff's Department Communications Center. Upon verification, OCOEM or NJOEM will initiate the spurious siren activation EAS with the Gateway Radio Station.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 3

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## PRELIMINARY SETUP

The AmerGen Technician or other qualified person shall perform the following actions prior to conducting a System Status Test, Quarterly Growl, or Annual Test of the prompt Notification System.

- 1.0 Power up the CCS if the system is off and
  - 1.1 Observe self test of internal electronic indicated by momentary illumination of CCU front panel LED's
  - 1.2 Upon completion of diagnostic test, only the "STANDBY" LED should be illuminated.
  - 1.3 A problem with internal electronic is indicated by one or more flashing LED's.

Problem CardLED

I/O

ALERT

Communications

LOWER RIGHT  
ADDRESS SELECT

Microprocessor

THIRD FROM TOP  
ALARM SELECT

- 2.0 Insert the "Install Disk" in the disk drive.
- 3.0 Reboot the computer.
  - 3.1 Hold down the Control, Alternate, Delete keys simultaneously.
- 4.0 Type "START" and press "ENTER" key.
- 5.0 Observe the monitor displays:
- 6.0 "Welcome to the Oyster Creek Siren Monitoring System".



Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 3 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## PRELIMINARY SETUP

7.0 Press any key.

8.0 Observe the monitor displays:

Monitor Mode On (current date) at (current time)

9.0 Observe the monitor displays Menu Box.

10.0 Set Date and Time

10.1 Select OPTIONS, F1

10.2 Select DATE/TIME

10.2.1 Enter correct date in the form

mm/dd/yyyy

i.e. 01/15/1992

10.2.2 Enter correct time in the form

hh:mm:ss

i.e. 09:30:00

10.2.3 Observe correct time is displayed at top line following

"Monitor Mode On"

11.0 Synchronize system.

11.1 Select Siren Services, F3

11.2 Select Synchronize Sirens

12.0 Reset Sirens

12.1 Select Siren Services, F3

12.2 Select Reset Sirens

|                            |              |
|----------------------------|--------------|
| Title                      | Revision No. |
| PROMPT NOTIFICATION SYSTEM | 6            |

EXHIBIT 4

PROMPT NOTIFICATION SYSTEM SURVEILLANCE  
SYSTEM STATUS TEST

- 1.0 The System Status Test is scheduled for Wednesday of every second week with a schedule tolerance of  $\pm 2$  days.
- 1.1 The System Status Test may be initiated as early as Monday of the scheduled week and shall be completed no later than Friday of the scheduled week. This provides a 5 day working window in which the test may be completed. A Quarterly Growl Test or Annual Test can be used to replace the corresponding bi-weekly test.
- 1.2 Conduct of System Status Test
  - 1.2.1 Verify Date and Time displayed are correct.
  - 1.2.2 If either requires correction complete the following steps:
    - 1.2.2.1 Select OPTION, F1
    - 1.2.2.2 Select DATE/TIME
    - 1.2.2.3 Enter correct date in the form  
mm/dd/yyyy  
i.e. 01/15/1992
    - 1.2.2.4 Enter correct time in the form  
hh:mm:ss  
i.e. 09:30:00
    - 1.2.2.5 Observe correct date and time are displayed at the top line following "Monitor Mode On".
    - 1.2.2.6 Select siren services (F3)  
Synchronize sirens
    - 1.2.2.7 Select siren services (F3)  
Reset sirens

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 4 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## SYSTEM STATUS TEST

## 1.2.3 Poll Sirens

1.2.3.1 Select Siren Services - F3

1.2.3.2 Select Poll All Sirens Once

1.2.4 The AmerGen Communications Technician or other qualified person conducting the System Status Test shall review the status of each siren on the System status Report to ensure all conditions are normal and shall conduct the following if an abnormal condition is reported:

1.2.5 Synchronize Sirens

1.2.6 Reset Sirens

1.2.7 Poll each siren previously observed to have an abnormal condition reported.

1.2.8 Select Siren Services F3.

1.2.9 Select Poll a Single Siren.

1.2.10 Enter Siren Address (Siren Number).

1.2.11 Respond "Y" to Reset Siren Query.

1.2.12 Respond "Y" to Print Single Poll Report Quarterly.

1.2.13 Respond "Y" to Poll another Query if another requires individual testing otherwise respond "N".

|                            |              |
|----------------------------|--------------|
| Title                      | Revision No. |
| PROMPT NOTIFICATION SYSTEM | 6            |

EXHIBIT 4 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

SYSTEM STATUS TEST

- 1.2.14 Identify each siren that continues to report an abnormal condition and notify the IT Supervisor that field testing is required.

NOTE

For malfunctioning sirens do not send a reset signal until field testing is completed.

- 1.2.15 The AmerGen Technician or other qualified person shall collect the System Status Report and individual siren poll reports and forward to the IT Supervisor. The following conditions are reportable as a failure of an individual siren and will be documented in a CAP:

- N/R No Reply
- AC Fail
- Uncorrectable Sync Error

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 5

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## QUARTERLY GROWL TEST

1.0 The Quarterly Growl Test is scheduled for one week every quarter (13 weeks) with a schedule tolerance of  $\pm$  2 weeks.

1.1 The Quarterly Growl Test may be initiated as early as Monday two weeks prior to the scheduled week and shall be completed no later than Sunday two weeks following the scheduled week. This provides a 5 week (35 day) working window in which the test may be completed.

1.2 The Quarterly Growl Test shall be conducted routinely via the Central Control Station at the Ocean County Sheriff's Office.

1.3 Growl Test Sirens

1.3.1 Verify Date and Time displayed are correct.

1.3.2 If either requires correction complete the following steps:

1.3.2.1 Select OPTION, F1

1.3.2.2 Select DATE/TIME

1.3.2.3 Enter correct date in the form

mm/dd/yyyy

i.e. 01/15/1992

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 5 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

QUARTERLY GROWL TEST

1.3.2.4 Enter correct time in the form

hh:mm:ss

i.e. 09:30:00

1.3.2.5 Observe correct date and time are displayed at the top  
line following "Monitor Mode On".

1.3.3 Select siren services F3

Synchronize sirens

1.3.4 Select siren services F3

Reset sirens

1.3.5 Select ACTIVATION MODE F10.

1.3.6 Select ACTIVATE - F1.

1.3.7 Select GROWL - Press Enter.

1.3.8 Select TOTAL - Press Enter.

1.3.9 Observe ARM SIREN GROWL TEST and press ENTER.

1.3.10 Observe FIRE SIRENS GROWL TOTAL and press ENTER.

1.3.11 Observe GROWL - ALL SIRENS indicated.

1.3.12 Respond "No Change" to print ACTIVATION Summary/Report.

1.3.13 Respond "Y" to Reset Sirens Query.

1.4 The AmerGen Technicians or other qualified person conducting the Growl  
Test shall review the status of each siren on the Activation Summary  
Report to ensure the alarms are reported.

\* Siren Contactor

\* Growl

\* Siren Run

|                            |              |
|----------------------------|--------------|
| Title                      | Revision No. |
| PROMPT NOTIFICATION SYSTEM | 6            |

EXHIBIT 5 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## QUARTERLY GROWL TEST

- 1.5 The AmerGen Communications Technician or other qualified person performing test shall identify any siren that fails the Growl Test and shall notify IT Supervisor that field testing is required.

NOTE

For malfunctioning sirens do not send a reset signal until field testing is completed.

- 1.6 The following conditions are reportable as a failure of an individual siren and will be documented in a CAP:

- \* N/R No Reply
- \* AC Fail with confirmed loss of one or more phases
- \* Uncorrectable Sync Error
- \* Siren Overrun Indication
- \* Lack of ALL of the following:
  - \*\* Siren Contactor Indication
  - \*\* Growl Indication
  - \*\* Siren Run Indication

- 1.7 The AmerGen Technician or other qualified person shall collect the Activation Verification Report and individual Siren Poll Reports and forward to the IT Supervisor.

|  |  |                           |
|--|--|---------------------------|
| <b>AmerGen</b><br>An Exelon/British Energy Company | OYSTER CREEK<br>EMERGENCY PREPAREDNESS<br>IMPLEMENTING PROCEDURE | Number<br>OEP-ADM-1319.04 |
| Title<br>PROMPT NOTIFICATION SYSTEM                | Revision No.<br>6  |                           |

EXHIBIT 5 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

QUARTERLY GROWL TEST

- 1.8 Following field repairs and testing, an AmerGen Technician shall conduct an individual Growl Test from a portable test unit for each siren requiring repairs.
- 1.9 The individual Growl Test includes the following steps:
  - 1.9.1 Select ACTIVATION MODE F10.
  - 1.9.2 Select ACTIVATE - F1.
  - 1.9.3 Select GROWL - Press Enter
  - 1.9.4 Select Single - Press Enter
  - 1.9.5 Observe SIREN ADDRESS ? is displayed.
  - 1.9.6 Enter siren number as address and press Enter.
  - 1.9.7 Observe ARM SIREN GROWL SIREN # is displayed and press Enter.
  - 1.9.8 Observe FIRE SIREN GROWL SIREN 3 is displayed and press Enter.
  - 1.9.9 Observe GROWL -Siren # is displayed.
  - 1.9.10 Respond "N" to print ACTIVATION Report. Reports are printed once all repairs are completed.
  - 1.9.11 Respond "Y" to Reset Sirens Query.
- 1.10 When completed testing all individual sirens, exit ACTIVATION MODE by completing the following steps:
  - 1.10.1 Select Exit - F2
  - 1.10.2 Press Enter
  - 1.10.3 Observe the program has returned to the MONITOR MODE.
- 1.11 The AmerGen Technician or qualified person performing test shall collect all the individual siren Growl Activation reports and forward to the IT Supervisor.



**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Revision No.

6

Title

PROMPT NOTIFICATION SYSTEM

EXHIBIT 6

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ANNUAL TEST

- 1.0 The Annual Test may be scheduled concurrently with the Plant Emergency Annual Exercise.
- 2.0 The Emergency Preparedness Section - OC shall ensure the test requirements are established prior to the Annual Test.
- 3.0 The Annual Test is scheduled once every calendar year.
- 4.0 Conduct of Annual Test.
  - 4.1 Verify Date and Time displayed are correct.
  - 4.2 If either requires correction complete the following steps:
    - 4.2.1 Select OPTION, F1
    - 4.2.2 Select DATE/TIME
    - 4.2.3 Enter correct date in the form  
mm/dd/yyyy  
i.e. 01/15/1992
    - 4.2.4 Enter correct time in the form  
hh:mm:ss  
i.e. 09:30:00
    - 4.2.5 Observe correct date and time are displayed at the top line  
following "Monitor Mode On".
  - 4.3 Select siren services (F3)  
Synchronize sirens
  - 4.4 Select siren services (F3)  
Reset sirens
  - 4.5 Select Activation Mode (F10).
  - 4.6 Select Activate (F1).
  - 4.7 Select Alert and press ENTER.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 6 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ANNUAL TEST

- 4.8 Select Total and press ENTER.
- 4.9 Observe Arm Sirens and Alert Total is displayed and press ENTER.
- 4.10 Observe Fire Sirens and Alert Total is displayed and press ENTER.
- 4.11 Observe Count Down and Verifying Sirens is displayed.
- 4.12 Observe individual status reports are displayed on CRT.
- 4.13 Observe the Activation Verification Report is printed and CRT displays Monitor Mode.

5.0 The AmerGen Technicians or other qualified person conducting the Annual Test shall review the status of each siren on the Activation Verification Report to ensure the alarms are reported.

- Siren Contactor
- Growl
- Siren Run
- Sound

6.0 The Technician or other qualified person conducting the Annual Test shall identify any siren that fails the Annual Test and shall notify the IT Supervisor that field testing is required.

NOTE

For malfunctioning sirens do not send a reset signal until field testing is completed.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 6 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ANNUAL TEST

7.0 The following conditions are reportable as a failure of an individual siren and will be documented in a CAP:

- \* N/R No Reply
- \* AC Fail with confirmed loss of one or more phases
- \* Uncorrectable Sync Error
- \* Siren Overrun Indication
- \* Lack of ALL of the following:
  - \*\* Siren Contactor Indication
  - \*\* Growl Indication
  - \*\* Sound Indication
  - \*\* Siren Run Indication

8.0 The Technician or qualified person conducting test shall collect the Activation Verification Report and forward to the IT Supervisor.

9.0 Following field repairs and testing, a Technician or other qualified person shall conduct an individual ANNUAL TEST from the portable test unit for each siren requiring repair.

10.0 The individual ANNUAL TEST includes the following steps:

- 10.1 Select Siren Services (F3)
- 10.2 Synchronize Sirens
- 10.3 Select Siren Services (F3)
  - Reset sirens.
- 10.4 Select ACTIVATION MODE F10.
- 10.5 Select ACTIVATE - F1.
- 10.6 Select ALERT - Press Enter
- 10.7 Select Single - Press Enter
- 10.8 Observe SIREN ADDRESS ? is displayed.

OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE

Number

OEP-ADM-1319.04

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 6 (CON'T)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ANNUAL TEST

- 10.9 Enter siren number as address and press Enter.
- 10.10 Observe ARM SIREN ALERT SIREN # is displayed and press Enter.
- 10.11 Observe FIRE SIREN ALERT SIREN # is displayed and press Enter.
- 10.12 Observe ALERT -Siren # is displayed.
- 10.13 Respnd "N" to Reset Siren Query.
- 10.14 Respond "N" to Print ACTIVATION REPORT.
- 10.15 Print Activation Report after all sirens have been repaired.
- 11.0 When completed testing all individual sirens, exit ACTIVATION MODE by completing the following steps:
- 11.1 Select Exit - F2
- 11.2 Press Enter
- 11.3 Observe the program has returned to the MONITOR MODE.
- 12.0 The Technicians or qualified person conducting test shall collect all the individual siren ALERT Activation reports and forward to the IT Supervisor.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 7

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

SIREN FREEZE PROTECTION

- 1.0 The siren freeze protection consists of six 50 watt heaters connected in parallel for the single phase Banshee type sirens and eight 50 watt heaters connected in parallel for the three phase Cyclone type sirens.
- 2.0 The resistance and current value of each siren shall be measured by a AmerGen Techs or other qualified technician, at least once during each calendar year by completing the following steps:
  - 2.1 Remove the power fuse from the heaters.
  - 2.2 Using an appropriate VOM, measure the resistance of the parallel heaters.
  - 2.3 Record the resistance in the "Present Resistance" section on Exhibit 12, Siren Heater Freeze Test.
  - 2.4 Attach the appropriate VOM across the fuse block terminals to measure current.
  - 2.5 Ensure thermostat contact is closed. It may be necessary to use a cooling agent such as "Circuit Freeze" to reduce the physical temperature of the thermostat to ensure contact closure.
  - 2.6 Determine the current value and record in the "Present Current Draw" section on Exhibit 12.
  - 2.7 Remove the VOM.
  - 2.8 Reinstall the power fuse.
  - 2.9 Ensure the thermostat is set to approximately 40°F.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 7  
(continued)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## SIREN FREEZE PROTECTION

## 3.0 Heater Surveillance Test Result Criteria.

## 3.1 Acceptable measurement values for a one phase Banshee Siren are:

3.1.1 Amps  $2.6 \pm 20\%$  (2.1 - 3.1).3.1.2 Resistance (Ohms)  $45.5 \pm 20\%$  (36.4 - 54.6).

## 3.2 Acceptable measurement values for a three phase Cyclone Siren are:

3.2.1 Amps  $3.5 \pm 20\%$  (2.8 - 4.2).3.2.2 Resistance (Ohms)  $34.3 \pm 20\%$  (27.4 - 41.2).

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 8

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ACTIONS FOR SIREN MALFUNCTION DURING A SURVEILLANCE

- 1.0 The Technician or person conducting test shall complete Exhibit 11. Record for any abnormal condition observed for the siren including:
- Siren number
  - Description of malfunction to include method used to correct deficiencies
  - Date of observation
  - Date of repair
- 2.0 Determine Municipality and Location of Siren
- 2.1 Select ACTIVATION MODE, F10
- 2.2 Select LOCATION, F7
- 2.3 Enter siren number and press Enter
- 2.3.1 Observe Municipality and location
- 2.3.2 Press Any Key to Continue
- 2.4 Either enter another siren number or 0 (zero) and Enter to exit
- 2.5 Select EXIT, F2
- 2.5.1 Observe EXIT is displayed
- 2.5.2 Press Enter to return to Monitor Mode.
- 3.0 The Technician or person conducting test shall ensure the Emergency Preparedness Section OC or their designee is informed during normal work hours or the On Duty Site Shift Manager during non-normal work hours of any non-function system sirens.
- 4.0 After any field maintenance, conduct a PMT to assure siren operation.

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 9PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION

| SIREN<br>NUMBER | LOCATION   | MUNICIPALITY | TYPE    | POWER<br>SOURCE |
|-----------------|--|--------------|---------|-----------------|
| 1               | South side of Rose Hill Rd.<br>at Railroad Ave.<br>0.1 miles west of US Rt. 9                              | Barnegat     | Cyclone | GPU Energy      |
| 3               | East side of US Rt. 9 at Taylor<br>Ln. 2.7 miles south of Bayshore Dr.                                     | Barnegat     | Banshee | GPU Energy      |
| 4               | West side of Bayshore Dr.<br>1.8 miles east of US Rt. 9  | Barnegat     | Banshee | GPU Energy      |
| 5               | South side of Bay Ave. at 10th St.<br>1.0 miles west of Garden State<br>Parkway 2.5 miles west of US Rt. 9 | Barnegat     | Cyclone | GPU Energy      |
| 6               | South side of State Rt. 72<br>0.2 miles east of Pancoast Rd.   | Barnegat     | Cyclone | Conectiv        |
| 7               | Sough side of State Rt. 72<br>1.1 miles west of State Rt. 532<br>& State Rt. 610 Warren Grove Rd.          | Barnegat     | Cyclone | Conectiv        |
| 9               | 10th St.<br>0.1 miles west of Central Blvd.  | Barnegat     | Cyclone | Conectiv        |
| 11              | East side of Berkeley Ave.<br>at Birch St.   | Beachwood    | Cyclone | GPU Energy      |
| 13              | South side of Butler at East Blvd.<br>0.9 miles east of US Rt. 9   | Berkeley     | Cyclone | GPU Energy      |
| 14              | East side of Veteran's Blvd. at<br>Downing Ave. Fire Station Park Lot                                      | Berkeley     | Cyclone | GPU Energy      |
| 15              | East side of Rt. 9 at Ocean Gate<br>Dr. near McDonald's Rest.  | Berkeley     | Cyclone | GPU Energy      |
| 16              | East side of Bayview Ave. 3.0<br>miles east of US Rt. 9 1st road<br>north at AT&T Building.                | Berkeley     | Cyclone | GPU Energy      |



**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 9 (CONT'D)PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION

| SIREN<br>NUMBER | LOCATION  | MUNICIPALITY             | TYPE    | POWER<br>SOURCE |
|-----------------|---|--------------------------|---------|-----------------|
| 17              | Silver Ridge Community Building<br>Westbrooke Dr. at Surrey Ct.                         | Berkeley                 | Banshee | GPU Energy      |
| 18              | Ocean County OEM at Miller<br>Air Park  | Berkeley                 | Cyclone | GPU Energy      |
| 19              | North side of Pinewald Keswick Rd.<br>2.3 miles west of Garden State<br>Parkway         | Berkeley                 | Cyclone | GPU Energy      |
| 20              | Manitou Substation  | Berkeley                 | Cyclone | GPU Energy      |
| 21              | Ajay Appliance Rt. 37 West<br>0.2 miles west of Mule Road                               | Dover                    | Cyclone | GPU Energy      |
| 22              | Christ Church parking lot<br>South side Washington St.<br>0.5 miles east of Hooper Ave. | Dover                    | Cyclone | GPU Energy      |
| 23              | Island Heights Substation Adams<br>Ave. 0.1 miles east of Coolidge Ave.                 | Dover                    | Cyclone | GPU Energy      |
| 25              | 80th St. at Anchor 0.1 miles west<br>of Long Beach Blvd.                                | Harvey<br>Cedars<br>Boro | Cyclone | Conectiv        |
| 26              | Bay Blvd. at Porter 0.1 miles<br>west of Central Ave.                                   | Seaside                  | Cyclone | GPU Energy      |
| 27              | Forked River Site West of Bldg. 3   | Lacey                    | Cyclone | GPU Energy      |
| 28              | Elks Lodge 2518B Beach Blvd. at<br>Clubhouse Rd. 0.9 miles east of<br>US Rt. 9          | Lacey                    | Cyclone | GPU Energy      |
| 29              | Capstan Dr. at Conifer Dr.  | Lacey                    | Cyclone | GPU Energy      |
| 30              | East Hickory Dr. at Plimsoll Pt.  | Lacey                    | Banshee | GPU Energy      |

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 9 (CONT'D)PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION

| SIREN<br>NUMBER | LOCATION   | MUNICIPALITY         | TYPE    | POWER<br>SOURCE |
|-----------------|--|----------------------|---------|-----------------|
| 31              | South St. at US Rt. 9  | Lacey                | Cyclone | GPU Energy      |
| 32              | North side of Lacey Rd. at Newark<br>Conway Auto Parking Lot   | Lacey                | Cyclone | GPU Energy      |
| 33              | North side Lakeside Dr. South<br>at Earle Way  | Lacey                | Banshee | GPU Energy      |
| 34              | South side Lacey Rd. 0.2 miles<br>west of State Rt. 618-Dover Rd.                                    | Lacey                | Cyclone | GPU Energy      |
| 35              | North side Lacey Rd.<br>1.2 miles west of Garden State Pkwy<br>2.2 miles east of Carriage Way        | Lacey                | Cyclone | GPU Energy      |
| 37              | East side of Central Blvd.<br>at Lighthouse Way  | Long Beach<br>Island | Cyclone | Conectiv        |
| 38              | East side of Long Beach Blvd.<br>at Roxie Ave.   | Long Beach<br>Island | Cyclone | Conectiv        |
| 43              | Waretown Substation<br>East side of US Rt. 9 0.6 miles<br>south Bryant Rd. State Rt. 532             | Ocean                | Cyclone | GPU Energy      |
| 44              | Ocean County Vocational School<br>South side of State Rt. 532<br>0.5 miles west of Garden State Pkwy | Ocean                | Cyclone | GPU Energy      |
| 45              | Lighthouse Dr. at Nautilus Rd.<br>0.8 miles east of US Rt. 9   | Ocean                | Banshee | GPU Energy      |
| 47              | 13th St. Substation<br>13th St. at Barnegat  | Seaside<br>Park      | Cyclone | GPU Energy      |
| 48              | OCSA end of Mill Creek Rd.<br>1.1 miles south of US Rt. 72   | Stafford             | Cyclone | Conectiv        |

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

6

**EXHIBIT 9 (CONT'D)****PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION**

| <b>SIREN<br/>NUMBER</b> | <b>LOCATION</b>   | <b>MUNICIPALITY</b> | <b>TYPE</b> | <b>POWER<br/>SOURCE</b> |
|-------------------------|---|---------------------|-------------|-------------------------|
| 49                      | OCSA Cedar Run Blvd.<br>0.5 miles east of US Rt. 9  | Stafford            | Cyclone     | Conectiv                |
| 51                      | East side of US Rt. 9<br>2.6 miles south of Bayshore Dr.<br>1.1 miles north of Hilliard Blvd. | Stafford            | Cyclone     | Conectiv                |
| 53                      | South side US Rt. 72 Opposite SOCH<br>0.7 miles west of Garden State Pkwy.                    | Stafford            | Cyclone     | Conectiv                |
| 56                      | Palatine Gun Club<br>West side St. Rt. 539<br>3.3 miles south of US Rt. 72                    | Stafford            | Cyclone     | Conectiv                |
| 58                      | OCSA S. 2nd St. at Barnegat Ave.<br>0.3 miles west Long Beach Blvd.                           | Surf City<br>Boro   | Cyclone     | Conectiv                |

Title  
PROMPT NOTIFICATION SYSTEM

Revision No.  
6

EXHIBIT 10

PROMPT NOTIFICATION SYSTEM  
REPAIR RECORD

| SIREN # | MALFUNCTION DESCRIPTION/COMMENTS | DATE OF<br>OBSERVATION | DATE OF<br>REPAIR |
|---------|----------------------------------|------------------------|-------------------|
|         |                                  |                        |                   |

Signature: \_\_\_\_\_  
Technician

Received: \_\_\_\_\_  
I&C Supervisor - O/C

EXHIBIT 11  
SAMPLE

OEP-ADM-1319.04  
 Rev. 6

Siren Location: \_\_\_\_\_

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[illegible]

Page \_\_\_\_\_ of \_\_\_\_\_

E11-1

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 12  
SIREN HEATER FREEZE TEST

| SIREN NO. | SIREN TYPE | NORMAL RESISTANCE | PRESENT RESISTANCE | NORMAL CURRENT DRAW | PRESENT CURRENT DRAW | NOTES |
|-----------|------------|-------------------|--------------------|---------------------|----------------------|-------|
| 1         | Cyclone    | 34.5              |                    | 3.49                |                      |       |
| 3         | Banshee    | 45.3              |                    | 2.58                |                      |       |
| 4         | Cyclone    | 46.2              |                    | 2.6                 |                      |       |
| 5         | Cyclone    | 34.2              |                    | 3.5                 |                      |       |
| 6         | Cyclone    | 34.2              |                    | 3.45                |                      |       |
| 7         | Cyclone    | 34.0              |                    | 3.47                |                      |       |
| 9         | Cyclone    | 32.4              |                    | 3.56                |                      |       |
| 11        | Cyclone    | 34.4              |                    | 3.5                 |                      |       |
| 13        | Cyclone    | 34.0              |                    | 3.4                 |                      |       |
| 14        | Cyclone    | 34.2              |                    | 3.51                |                      |       |
| 15        | Cyclone    | 34.2              |                    | 3.52                |                      |       |
| 16        | Banshee    | 45.2              |                    | 2.7                 |                      |       |
| 17        | Banshee    | 45.6              |                    | 2.6                 |                      |       |
| 18        | Cyclone    | 34.6              |                    | 3.44                |                      |       |
| 19        | Cyclone    | 34.5              |                    | 3.42                |                      |       |
| 20        | Cyclone    | 33.7              |                    | 3.58                |                      |       |
| 21        | Cyclone    | 34.2              |                    | 3.48                |                      |       |
| 22        | Cyclone    | 34.2              |                    | 3.51                |                      |       |
| 23        | Cyclone    | 34.3              |                    | 3.58                |                      |       |
| 25        | Cyclone    | 34.3              |                    | 3.64                |                      |       |
| 26        | Cyclone    | 34.0              |                    | 3.46                |                      |       |
| 27        | Cyclone    | 33.9              |                    | 3.8                 |                      |       |

Tech's Signature: \_\_\_\_\_

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 12SIREN HEATER FREEZE TEST  
(continued)

| SIREN NO. | SIREN TYPE | NORMAL RESISTANCE | PRESENT RESISTANCE | NORMAL CURRENT DRAW | PRESENT CURRENT DRAW | NOTES |
|-----------|------------|-------------------|--------------------|---------------------|----------------------|-------|
| 28        | Cyclone    | 34.0              |                    | 3.55                |                      |       |
| 29        | Cyclone    | 34.0              |                    | 3.58                |                      |       |
| 30        | Banshee    | 45.1              |                    | 2.64                |                      |       |
| 31        | Cyclone    | 34.5              |                    | 3.46                |                      |       |
| 32        | Cyclone    | 34.2              |                    | 3.5                 |                      |       |
| 33        | Banshee    | 45.2              |                    | 2.65                |                      |       |
| 34        | Cyclone    | 34.3              |                    | 3.46                |                      |       |
| 35        | Cyclone    | 34.4              |                    | 3.5                 |                      |       |
| 37        | Cyclone    | 34.5              |                    | 3.5                 |                      |       |
| 38        | Cyclone    | 34.3              |                    | 3.52                |                      |       |
| 43        | Cyclone    | 33.9              |                    | 3.56                |                      |       |
| 44        | Cyclone    | 34.0              |                    | 3.47                |                      |       |
| 45        | Banshee    | 45.3              |                    | 2.58                |                      |       |
| 47        | Cyclone    | 34.5              |                    | 3.56                |                      |       |
| 48        | Cyclone    | 34.5              |                    | 3.47                |                      |       |
| 49        | Cyclone    | 34.3              |                    | 3.57                |                      |       |
| 51        | Cyclone    | 34.7              |                    | 3.57                |                      |       |
| 53        | Cyclone    | 34.3              |                    | 3.51                |                      |       |
| 56        | Cyclone    | 34.5              |                    | 3.5                 |                      |       |
| 58        | Cyclone    | 34.2              |                    | 3.52                |                      |       |

Tech's Signature: \_\_\_\_\_

Title

PROMPT NOTIFICATION SYSTEM

Revision No.

6

EXHIBIT 13

ANNUAL SIREN SURVEILLANCE

DATE: \_\_\_\_\_

SIREN #: \_\_\_\_\_

CONTROL BOX/HEATER

- 1) Check contactor condition
- 2) Check all wiring/connections for tightening/condition
- 3) Check heater operation

Ohms

Amps

Computer indication

RADIO BOX

- 1) Check power supply (radio keyed)
  - +12 VDC \_\_\_\_\_
  - 12 VDC \_\_\_\_\_
  - + 5 VDC \_\_\_\_\_
- 2) Remove/clean edge connectors/sockets and  
reinstall all cards
- 3) Test antenna/radio

Power out

Power refl

- 4) Test radio link (status normal)

- 5) Spin siren (bump)

RADIO P/M

|    |        | NORM     |
|----|--------|----------|
| TX | PWR    | 15W      |
|    | DEVA   | 5KHZ     |
|    | PL     | 103.5    |
|    | FREQ 1 | 173.2875 |
|    | FREQ 2 | 173.3375 |
| RX | SENS   | .30V     |
|    | FREQ 1 | 173.2875 |
|    | FREQ 2 | 173.2875 |
|    | PL     | 103.5    |

COMMENTS: \_\_\_\_\_

Tech's Signature: \_\_\_\_\_



**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number

OEP-ADM-1319.04

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

6

**INSTRUCTIONS FOR ONCE PER SHIFT VERIFICATION OF THE OYSTER CREEK SIRENS**

- VERIFY that the REACT 1000 Siren Controller Red Power Light is LIT  
(The Red Power Light is located on the front left side of the REACT 1000 panel)
- VERIFY that the Siren Computer Screen TIME CLOCK is changing
- Depress the Keyboard Arrow Keys and SCROLL down through all the Numbered Siren Status Display Lines on the Siren Computer Screen. Look for the following 2 conditions:

Condition 1 - IF ALL Sirens display the following BLUE status:  
NO REPLY - RADIO OR POWER FAILURE

THEN IMMEDIATELY perform the following sequence of steps:

Turn the REACT 1000 Power Switch OFF  
Turn the Siren Computer Power Switch OFF  
WAIT 10 seconds  
Turn the REACT 1000 Power Switch ON  
Turn the Siren Computer Power Switch ON

WHEN the menu screen is displayed perform the following:

Press the F3 Key on the Keyboard  
Scroll Down with the Arrow Key and Select Synchronize  
Press the ENTER Key on the Keyboard

Press the F3 Key on the Keyboard  
Scroll Down with the Arrow Key and Select Reset  
Press the ENTER Key on the Keyboard

Press the F3 Key on the Keyboard  
Scroll Down with the Arrow Key and Select Poll All Sirens  
Press the ENTER Key on the Keyboard

When the following message *Print System Status Report* is displayed enter N

Condition 2 - IF 5 or more, but not all, Sirens display the following BLUE status:  
NO REPLY - RADIO OR POWER FAILURE

THEN IMMEDIATELY perform the following steps:

Press the F3 Key on the Keyboard  
Scroll Down with the Arrow Key and Select Poll All Sirens  
Press the ENTER Key on the Keyboard

When the following message *Print System Status Report* is displayed enter N

IF at any time following Poll All Sirens, 5 or more Sirens continue to display the following BLUE status:

NO REPLY - RADIO OR POWER FAILURE  
THEN IMMEDIATELY contact the Oyster Creek Shift Manager @ 609-971-4667