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AmerGen
An Exelon/British Energy Company

10 CFR 50 App. E

July 25, 2002
2130-02-20004

United States Nuclear Regulatory Commission
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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:

Procedure Number	Title	Revision
OEP-ADM-1319.04	Prompt Notification System	4

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

Very truly yours,

Ron J. DeGregorio, Vice President
Oyster Creek Generating Station

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

A045

Oyster Creek Licensing Correspondence Distribution Sheet

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EPIP SERIES - EMERGENCY PLAN IMPLEMENTING PROCEDURES

PROCEDURE NO.	TITLE	REV.	DATE
6630-ADM-4010.03	Emergency Dose Calculation Manual (EDCM)	11	07/23/00
EPIP-OC-.01	Classification of Emergency Conditions	13	05/31/02
EPIP-OC-.02	Direction of Emergency Response/Emergency Control Center	30	11/19/01
EPIP-OC-.03	Emergency Notification	29	11/07/01
EPIP-OC-.06	Additional Assistance and Notification	26	12/12/01
EPIP-OC-.10	Emergency Radiological Surveys Onsite	13	04/19/02
EPIP-OC-.11	Emergency Radiological Surveys Offsite	17	11/07/01
EPIP-OC-.12	Personnel Accountability	9	07/07/01
EPIP-OC-.13	Site Evacuation & Personnel Mustering at Remote Assembly Areas	10	01/31/02
EPIP-OC-.25	Emergency Operations Facility (EOF)	26	12/04/01
EPIP-OC-.26	The Technical Support Center	23	07/05/01
EPIP-OC-.27	The Operations Support Center	14	04/19/02
EPIP-OC-.31	Environmental Assessment Command Center	11	08/08/00
EPIP-OC-.33	Core Damage Estimation	5	08/08/00
EPIP-OC-.35	Radiological Controls Emergency Actions	15	12/17/01
EPIP-OC-.40	Site Security Emergency Actions	12	12/11/01
EPIP-OC-.41	Emergency Duty Roster Activation	8	07/02/02
EPIP-OC-.44	Thyroid Blocking	2	07/21/01
EPIP-OC-.45	Classified Emergency Termination/Recovery	3	12/04/01
OEP-ADM-1319.01	Oyster Creek Emergency Preparedness Program	11	01/22/02
OEP-ADM-1319.02	Emergency Response Facilities & Equipment Maintenance	12	06/13/02
OEP-ADM-1319.04	Prompt Notification System	4	07/19/02
OEP-ADM-1319.05	Emergency Preparedness Event Reports	2	07/02/01

AmerGen

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July 19, 2002

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AmerGen An Exelon/British Energy Company	OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE	Number OEP-ADM-1319.04
Title PROMPT NOTIFICATION SYSTEM		Revision No. 4
Applicability/Scope Applies to work at Oyster Creek		Responsible Department Emergency Preparedness
		Effective Date 7/19/02

Prior Revision 3 incorporated the following Temporary Changes:

N/A

This Revision 4 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 4)

1.0 to 9.0
E1-1
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E3-1 to E3-2
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E7-1 to E7-2
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E13-1

This procedure replaces Procedure 6430-ADM-1319.04

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	7/17/02
Approved By	R Mark Moore	Radiation Protection Manager	7/17/02

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.

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, 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 126 "Procedure for Notification of Station Events".

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.

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.

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.

3.16 System Status Test

This verifies the operation of the communications section of the Prompt Notification System, but does not sound the siren.

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.

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, I&C Supervisor or his designee.

4.5.2.1 The reviewed documents shall be forwarded to the Oyster Creek Emergency Preparedness Section for retention.

4.5.2.2 Each siren that fails shall be documented in an AR in PIMS to capture the repairs.

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.

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 (NJRERP), 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 Maintenance/I&C

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

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.

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

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.

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 I&C 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 126, Enclosure 1, "Procedure for Notification of Station Events".

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.

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 Card	LED
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".

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

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 ±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

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".

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 Security Analyst 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 Security Analyst. The following conditions are reportable as a failure of an individual siren:

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

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 ± 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

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

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 I&C 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:

* 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 I&C Supervisor.

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 I&C Supervisor.

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.

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 Security Analyst that field testing is required.

NOTE

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

EXHIBIT 6 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

ANNUAL TEST

7.0 The following conditions are reportable as a failure of an individual siren:

* 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 Security Analyst.

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.

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 I&C Supervisor.

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.

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 ± 20% (2.1 - 3.1).

3.1.2 Resistance (Ohms) 45.5 ± 20% (36.4 - 54.6).

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

3.2.1 Amps 3.5 ± 20% (2.8 - 4.2).

3.2.2 Resistance (Ohms) 34.3 ± 20% (27.4 - 41.2).

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.

EXHIBIT 9

PROMPT NOTIFICATION SYSTEM
SIREN LOCATION

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

EXHIBIT 9 (CONT'D)

PROMPT NOTIFICATION SYSTEM
SIREN LOCATION

SIREN NUMBER	LOCATION	MUNICIPALITY	TYPE	POWER SOURCE
17	Silver Ridge Community Building Westbrooke Dr. at Surrey Ct.	Berkeley	Banshee	GPU Energy
18	Ocean County OEM at Miller Air Park	Berkeley	Cyclone	GPU Energy
19	North side of Pinewald Keswick Rd. 2.3 miles west of Garden State Parkway	Berkeley	Cyclone	GPU Energy
20	Manitou Substation	Berkeley	Cyclone	GPU Energy
21	Ajay Appliance Rt. 37 West 0.2 miles west of Mule Road	Dover	Cyclone	GPU Energy
22	Christ Church parking lot South side Washington St. 0.5 miles east of Hooper Ave.	Dover	Cyclone	GPU Energy
23	Island Heights Substation Adams Ave. 0.1 miles east of Coolidge Ave.	Dover	Cyclone	GPU Energy
25	80th St. at Anchor 0.1 miles west of Long Beach Blvd.	Harvey Cedars Boro	Cyclone	Conectiv
26	Bay Blvd. at Porter 0.1 miles 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 Clubhouse Rd. 0.9 miles east of 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

EXHIBIT 9 (CONT'D)

PROMPT NOTIFICATION SYSTEM
SIREN LOCATION

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

EXHIBIT 9 (CONT'D)

PROMPT NOTIFICATION SYSTEM
SIREN LOCATION

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

EXHIBIT 10

PROMPT NOTIFICATION SYSTEM
REPAIR RECORD

SIREN #	MALFUNCTION DESCRIPTION/COMMENTS	DATE OF OBSERVATION	DATE OF REPAIR

Signature: _____
Technician

Received: _____
I&C Supervisor - O/C

EXHIBIT 11
SAMPLE
PNS HISTORICAL RECORD

Siren Number:_____

Siren Location:_____

_____

ACTIVITY DATE			REMARKS
BW	QUARTERLY	OTHER	EQUIPMENT STATUS

Page _____ **of** ____

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:_____

EXHIBIT 12

SIREN 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:_____

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	_____	.3UV
	FREQ 1	_____	173.2875
	FREQ 2	_____	173.2875
	PL	_____	103.5

COMMENTS: _____

_____

_____

Tech's Signature: _____