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**Nuclear Business Unit** 

SEP 0 8 1998

LR-N980419

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

REQUEST FOR APPROVAL OF CHANGES TO THE NUCLEAR BUSINESS UNIT (NBU) EMERGENCY PLAN
SALEM AND HOPE CREEK GENERATING STATIONS
DOCKET NOS. 50-272, 50-311 AND 50-354

Dear Sir:

In accordance with 10CFR50.54(q)(b)(5), Public Service Electric and Gas (PSE&G) hereby submits for your approval a request to change the Nuclear Business Unit (NBU) Emergency Plan for the Hope Creek and Salem Generating Stations.

This submittal requests approval to eliminate the notification of a General Emergency and associated protective action recommendations to the local authorities (counties) and Lower Alloways Creek Township. Currently the NBU Emergency Plan requires notification of a General Emergency to the local authorities (counties) coincident with the states of Delaware and New Jersey.

Attachment 1 contains a description of the proposed changes and the reasons for the proposed changes. PSE&G requests approval of this change by October 15, 1998. If you have any questions regarding this submittal, please contact Ms. Donna Miller at 609-339-1517.

Sincerely,

D. R. Powell

Director -

Licensing/Regulation and Fuels

Attachments

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The power is in your hands.

Acys

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# ATTACHMENT 1 REQUESTED CHANGE TO NBU EMERGENCY PLAN

The proposed change in Sections 4 and 6 of the NBU Emergency Plan is to eliminate the notification of a General Emergency and associated protective action recommendations to the local authorities (Salem, Cumberland, New Castle and Kent counties) and Lower Alloways Creek (LAC) Township. Currently the NBU Emergency Plan requires notification to States only for an Unusual Event, Alert and Site Area Emergency. The States in turn notify the local authorities. However, for a General Emergency the Emergency Plan requires notification to the local authorities, LAC and the U.S. Coast Guard coincident with the states of Delaware and New Jersey. This proposed change does not make a change to the U.S. Coast Guard notification but does delete notification to the local authorities for a General Emergency.

NUREG-0654/FEMA-REP-1, revision 1 states for an Unusual Event, Alert, and Site Area Emergency the licensee is to promptly inform the State <u>and/or</u> local offsite authorities, whereas for the General Emergency the Licensee is to inform the State <u>and</u> local offsite authorities. The option to not notify (and/or) the local authorities in a General Emergency is not provided in the NUREG.

The States of Delaware and New Jersey have requested, in writing, to delete the notification to the local authorities (Salem, Cumberland, New Castle and Kent counties) and LAC for the General Emergency. Both Delaware and New Jersey have obtained the agreement of the respective local authorities for this change.

The reason for the proposed change is that the procedures in both states require the local authorities to receive notification and direction from their respective state emergency management agencies. This is the method currently used for an Unusual Event, Alert and Site Area Emergency. The counties and local municipalities cannot take action until directed by their State Emergency Management Agencies. Therefore, notification of a General Emergency declaration does not expedite actions taken by the local authorities for public safety.

PSE&G believes that this change requires prior NRC approval but will not result in a decrease in the effectiveness of the NBU Emergency Plan. Sections 4 and 6 of the NBU Emergency Plan depicting this change are attached.

PSE&G

50-272 Emergency Plan CONTROL

SECTION 4

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#### EMERGENCY RESPONSE SUPPORT AND RESOURCES

1.0 \ Local Services Support

The local services support to be relied on in the event of an emergency is classified into two general categories: Medical and Fire Protection.

### 1.1 Medical Support

Medical support is provided by the Memorial Hospital of Salem County. The specific resources and capabilities of medical support are provided in Section 13.0 of this Plan.

### 1.2 Fire Protection

Fire protection support is provided for Salem and Hope Creek Generating Stations in accordance with station technical specifications. The resources are provided at the request of the Operations Superintendent (OS) of the affected unit or Emergency Duty Officer (EDO). Additionally, local fire companies respond (in accordance with appropriate agreements) to fires at Salem and Hope Creek Generating Stations. While these personnel are omsite they will be under the direction and control of the OS or Control Room Supervisor (CRS) of the affected unit prior to OSC activation and for the OSC Coordinator after the OSC is activated.

## 2.0 State and County (Local) Government Response

For events classified as an Unusual Event, Alert or Site Area Emergency, the contact with the local governments and states is provided through the states. Following this initial contact, the states will be responsible for assessing the information provided, activating their response organization (as required) notifying the local governments, the U.S. Coast Guard and the public. If the states cannot be contacted within fifteen minutes, the affected station notifies the local governments (counties) and the U.S. Coast Guard directly.

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For events classified as a General Emergency, Salem and Hope Creek Generating Stations make direct contact with local governments (Salem, Cumberland, New Castle and Kent Counties) and the U.S. Coast Guard coincident with the initial contact of the States of New Jersey and Delaware.

Following this initial contact, each county or the U.S. Coast Guard is responsible for assessing the information provided, activating their response organization and promptly notifying the public or controlling traffic on the Delaware River.

The Plan provides the appropriate space and facilities to the principal State and Federal response organizations at the Emergency Operations Facility (EOF). The utility assigns a person to assist the States of New Jersey and Delaware in accordance with the Memorandum of Understanding with each State. This allows state response personnel to have immediate access to all station radiological and operational data. Additionally, PSE&G is prepared to provide representatives to the state EOCs to assist the state (at their request) in answering questions and contacting the appropriate utility personnel.

### 3.0 Federal Response

The federal response is expected to consist primarily of representatives from the U.S. Department of Energy (U.S. DOE), U.S. Nuclear Regulatory Commission (NRC), and U.S. Coast Guard (USCG). PSE&G provides space in the EOF for principal representatives from these organizations, as required. Since the federal response (other than NRC) is primarily related to offsite protective actions and radiological assessment, it is implemented at the request of the States of New Jersey and/or Delaware. The Federal Emergency Management Agency (FEMA) acts as coordinator of the federal response. PSE&G provides information and assistance to FEMA as required to assist it in coordinating the federal response.

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#### 3.1 U.S. Nuclear Regulatory Commission

The NRC is notified via a dedicated telephone line (ENS) from the Control Room, Technical Support Center (TSC) or EOF, to the Rockville, Maryland Operations Center within one hour after identifying the existence of an emergency condition. NRC is responsible for the coordination of the federal government's technical response activities. Response support is initially supplied by the Office of Inspection and Enforcement, Region I, King of Prussia, Pennsylvania.

#### 3.2 U.S. Coast Guard

The U.S. Coast Guard is notified of all emergency events at Salem and Hope Creek Generating Stations. At the request of PSE&G or the State of New Jersey they will provide rescue and/or notification operations on the Delaware River and associated waterways.

#### 3.3 U.S. Department of Energy

Radiological assistance teams are provided by Brookhaven National Laboratories, Brookhaven Area Office in Upton, New York. This assistance generally is requested by the States of New Jersey and Delaware. DOE is responsible for coordinating the offsite radiological monitoring and evaluation activities of the federal government.

#### 3.4 Federal Emergency Management Agency (FEMA)

FEMA has the responsibility for coordinating all offsite nontechnical response activities of the federal government. They serve as the primary point of contact for requests for federal assistance from state and local officials, and other federal agencies.

#### 3.5 National Weather Service

When requested, the National Weather Service provides backup meteorological data for Salem and Hope Creek Generating Stations.

#### Federal Resources

The resources of the Federal government through the implementation of the Federal Radiological Emergency Response Plan (FRERP) may be used to supplement the onsite surveys or relieve Utility offsite survey teams. This Plan does not use FRERP resources for making protective action assessments or recommendations.

The individual assigned the emergency coordinator function is the Utility individual who is authorized to request FRERP resources. The FRERP teams are instructed to go to the EOF and report to the Radiological Support Manager. Survey team efforts offsite are managed and survey data are assembled and analyzed at the EOF. The EOF is also the location where the Federal response coordination will be conducted. Facilities are available at the EOF to support the Federal response. Figure 4-1 provides information on airfields near the site.

### 5.0 Other Organizations

4.0

Other organizations that are available for emergency support duties are called upon and report to the Technical Support Supervisor (TSS) or Site Support Manager (SSM).

#### 5.1 PSE&G Research Corporation-Energy Laboratory

The PSE&G Research Corporation is a wholly owned research subsidiary of Public Service Electric & Gas Company. The Energy Laboratory, which provides environmental sampling and meteorology consultation, is a part of the PSE&G Research Corporation. The Energy Laboratory located in Maplewood, New Jersey, has extensive facilities and equipment for analysis of materials, environmental radioactivity analysis, and radiation surveys. Equipment available for radiation analysis includes: low level alpha-beta counters, gamma spectroscopy system, beta-gamma counter, and several types of portable radiation survey instruments. The equipment is maintained and periodically calibrated to appropriate radiation standards.

In addition, the Energy Laboratory has manpower available to assist in sample collection in the aftermath of an incident involving the release of radioactive materials. The emergency services and manpower from the Laboratory would be requested by the emergency coordinator.

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### 5.2 Reactor Vendor

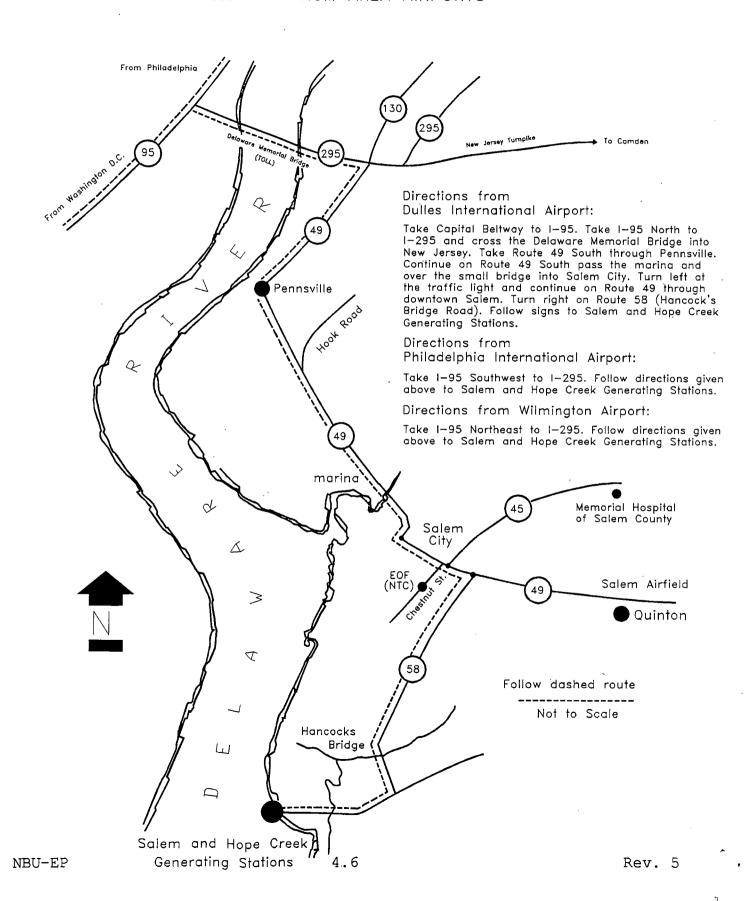
The emergency response capabilities of both Nuclear Steam Supply System (NSSS) vendors in support of Salem and Hope Creek Generating Stations are provided in supplements to the Plan listed in Attachment 2-1.

### 5.3 Institute of Nuclear Power & Operations (INPO)

INPO requested that all utilities with nuclear generating stations provide INPO with information concerning material and personnel resources. This information is available in their "Emergency Resources Manual," to which PSE&G is a signatory. This source of information is used by the emergency coordinator function in requesting assistance from other Utility Companies.

Supplementing this Plan (see Attachment 2-1) is the letter of agreement from INPO that outlines INPO's role in assisting a member utility during an emergency.

FIGURE 4-1
SALEM AND HOPE CREEK GENERATING STATIONS
ACCESS FROM AREA AIRPORTS



## SECTION 4

SIGNATUR	E PAGE	
Prepared By: (If Editorial Revesions Only, Last	Approved Revision)	1./4.98 Date
Reviewed By:  Station Qualifie		 Date
Reviewed By: Department	Manager	Date
Reviewed By: Dww O. Miller Manager - CA	, EP, & IT	1-21-98 Date
Reviewed By:Manager + Qual	ity Assessment	Date
SORC Review and St	MA	ole Chairman
Date	Mtg. No. \ Hope Cre	ek Chairman e
General Manager - Salem  Date	General Manager Hop	e Creek
Effective Date of this Revision	i/28/98  Date	

#### SECTION 5

# EMERGENCY CLASSIFICATION SYSTEM DY #

The emergency classification system is designed to provide a consistent method for categorizing possible events or accidents into one of four emergency classifications: Unusual. Event, Alert, Site Area Emergency, and General Emergency.

#### 1.0 Unusual Event (UE)

Unusual Events, as used for emergency planning purposes, characterize off-normal plant conditions which may not in themselves be particularly significant from an emergency response standpoint, but could reasonably have the potential to increase in significance if proper action is not taken or if circumstances beyond the control of the operating staff render the situation more serious from a safety standpoint. For Unusual Events, the States of New Jersey and Delaware are notified promptly (within 15 minutes) following the declaration of the emergency. No offsite response is necessary.

### 1.1 Alert

The Alert classification is the lowest level at which some emergency offsite response may be anticipated. At this level, physical occurrences within the plant require station staff emergency organization response. This level, however, is associated with a judgment that the emergency situation can be corrected and controlled by the plant staff and it is unlikely that an offsite hazard will evolve.

For Alerts, the States of New Jersey and Delaware are notified promptly (within 15 minutes) following the declaration of the emergency. Furthermore, the onsite Technical Support Center (TSC) and Operational Support Center (OSC) are activated. Staffing of the Emergency Operating Facility (EOF) and Emergency News Center (ENC) is a planned option. Activation of the EOF will occur if, based on plant conditions, the emergency coordinator requires EOF support. State Emergency Operations Center (EOC) will activate, county and municipal EOC's may activate.

### 1.2 Site Area Emergency (SAE)

The Site Area Emergency classification reflects conditions where there is a clear potential for significant releases,

such releases are likely, or they are occurring, but does not involve indications of a core melt situation based on current information. For Site Area Emergency, the States of New Jersey and Delaware are notified promptly (within 15 minutes) following the declaration of the emergency. A protective action recommendation (e.g., no protective actions are recommended at this time) is communicated to the states in the initial notification message which follows the declaration of a Site Area Emergency. Furthermore, the TSC, EOF, and ENC are activated. State, county, and municipal EOC's activate.

### 2.0 General Emergency (GE)

A General Emergency classification level reflects conditions involving an actual or imminent substantial core degradation or melting with the potential for loss of containment integrity. For General Emergency, the States of New Jersey and Delaware and appropriate Emergency Planning Zone counties are notified promptly (within 15 minutes) following the declaration of the emergency. A protective action recommendation of either sheltering and/or evacuation out to a fixed distance is communicated to the states in the initial notification message which follows the declaration of a General Emergency. Furthermore, if not previously done, all PSE&G Emergency Response Facilities are activated. State, county, and municipal EOC's activate.

#### 3.0 Event Classification Guides (ECG)

The Event Classification Guides (ECG) for Salem and Hope Creek list the action levels for all reportable incidents required by NUMARC/NESP-007, station technical specifications, the Code of Federal Regulations, and special Licensee commitments.

The ECG's subject categories of initiating conditions are summarized for Salem (Attachment 5-1) and Hope Creek Generating Stations (Attachment 5-2). Like the Emergency Plan, the ECG is subject to specific reviews and approvals proscribed by technical specifications and Section 17 of this plan. The current revision of the ECGs provides the current controlled, approved document.

The ECG volume guides the emergency coordinator to an immediate and appropriate emergency response specific to the event. The ECG volumes contain the initiating conditions and associated emergency action levels. Since these volumes have been provided to the NRC in accordance with 10CFR50, as approved or revised (10 CFR50.54q) and Appendix E, they have been included in this plan as attachments. The ECG volumes

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are considered proper annexes of the Nuclear Business Unit Emergency Plan.

The EALs have been discussed and agreed upon by PSE&G and the state governments. Further, the EALs will be reviewed annually as discussed in Section 17.4.

### SECTION 5

## SIGNATURE PAGE

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SECTION 6

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#### NOTIFICATION METHODS - RESPONSE ORGANIZATIONS

#### 1.0 <u>INITIAL\_NOTIFICATION</u>

#### 1.1 PSE&G EMERGENCY RESPONSE ORGANIZATION

The initial notification of an emergency or a change in emergency classification is in accordance with Figure 6-1. Table 6-1 provides an initial notification and action summary as discussed in NUREG-0654. The station plant paging systems are utilized to notify onsite personnel of emergency conditions and that activation of emergency response facilities may be required.

An automated Emergency Outdial System computer is utilized to callout the balance of emergency response personnel for full organizational augmentation and activation of emergency response facilities. The system activates the appropriate digital group pagers while simultaneously calling other personnel on the telephone. The system is interactive and recognizes emergency response personnel by their employee identification numbers.

Additional PSE&G telephone notifications are made in accordance with applicable Event Classification Guide Attachments and Emergency Plan Implementing Procedures.

#### 1.2 INITIAL NOTIFICATION - STATES

The initial notification to the states of an emergency or a change in emergency classification is made to the State Police Headquarters of New Jersey and Delaware. Upon completion of the initial message, each State Police Headquarters verifies the call by performing a callback check and then makes the notifications indicated in Figures 6-2 and 6-3.

The procedures for initial notifications to the State of New Jersey and Delaware are identical for all emergency classes. Once activated however, the Delaware Emergency Management Agency (DEMA) will take initial notifications instead of the Delaware State Police. This notification is made promptly following the declaration of the emergency (within 15 minutes). An example of the message format for this initial notification used in the emergency procedures is provided as Figure 6-4. These notifications meet the requirements of NUREG-0654, Element E-3. Appropriate forms are utilized for each emergency classification.

#### 1.3 INITIAL NOTIFICATION - LOCAL

For Unusual Event, Alert and Site Area Emergency classifications, each state, following notification by the utility, initially notifies the local authorities. If, however, the utility has not been able to contact a state, the utility directly notifies the local (county) authorities. All initial notifications must be accomplished within 15 minutes. Accident assessment, protective action recommendations, and other information normally provided to the state are communicated to the local authorities (or other agencies as provided in the Memorandum of Understanding with the state) until the state assessment agency assumes its communications and assessment responsibilities.

For General Emergency, the state, local authorities and the U.S. Coast Guard (USCG) are contacted directly and given the information on the Initial Contact Message Form. This expedites the implementation of protective actions for the general public.

#### 1.4 FOLLOWUP COMMUNICATION - STATES

The followup communication with the states is initiated by a return call from the authorized state agency. For the State of Delaware, the Delaware Emergency Management Agency is responsible for followup communications. For the State of New Jersey, the Department of Environmental Protection, Bureau of Nuclear Engineering and/or the New Jersey State Police Office of Emergency Management is responsible for followup communications.

The procedures for followup communications with the States of New Jersey and Delaware are identical for all emergency classes. An example message format for followup communications used in the emergency plan procedures is provided as Figure 6-5. These notifications meet the requirements of NUREG-0654, Element E-4. Appropriate forms are utilized for each emergency classification.

#### 1.5 FOLLOWUP COMMUNICATIONS - LOCAL

Followup communications with the local authorities are provided by the appropriate state agency for all emergency classifications.

#### 1.6 NOTIFICATION OF THE NRC

This plan provides for appropriate notification of the NRC for the events described in the Event Classification Guide.

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#### 2.0 PROMPT ALERTING <u>AND NOTIFICATION OF THE PUBLIC</u>

Following initial notification, the states make a determination on protective actions and activate the Prompt Alerting and Notification System. This system can be activated directly by Salem County in New Jersey and by the Delaware State Police in Delaware for a rapidly developing emergency.

Land use within Salem and Hope Creek Nuclear Generating Stations plume exposure Emergency Planning Zone (EPZ) is principally rural. The area within five miles of the stations is largely water and marsh land. This area attracts only a limited number of hunters and trappers, most of whom are local residents. The towns and city within ten miles of Salem and Hope Creek Nuclear Generating Stations are listed in Table 1-1.

#### 2.1 SIREN SYSTEM AS THE FIRST PROMPT ALERTING SYSTEM

The Prompt Alerting and Notification System by the states (Figure 6-6) consists of subsystems which meet the criteria of FEMA REP-10. The system provides notification of the population within zero to five miles of the stations in 15 minutes and notification of the population within five to ten miles in 45 minutes. The first Prompt Alerting and Notification subsystem consists of a siren system controlled from a continuously (24 hour) staffed location in New Jersey and Delaware. Within zero to ten miles of Salem and Hope Creek Nuclear Generating Stations this system is designed to provide siren coverage for essentially 100% of the permanent resident population. In addition, it provides siren coverage of population centers throughout the plume exposure EPZ and selected coverage for the areas known to have recreational or transient populations. An area map showing this system is provided as Figure 6-7. Figure 6-7 includes a listing of siren locations and types. This system is as represented in the Alert and Notification System Report submitted by New Jersey, Delaware, and PSE&G to FEMA Region 2 on January 31, 1986 and tested on December 10, 1986.

#### 2.2 PUBLIC ADDRESS SYSTEMS AS THE SECOND PROMPT ALERTING SYSTEM

The second prompt alerting and notification subsystem combines alerting, notification, and information into a single system. This system, which is used for waterborne transient boaters within the plume exposure EPZ, consists of a radio alert and notification system coordinated by the United States Coast Guard (USCG) on Marine Channel 16 and supplemented by broadcasts via Emergency Alert System (EAS) and National Oceanographic and Atmospheric Administration (NOAA) Weather Radio. The USCG and states also dispatch boats and helicopters to make direct contact with boaters.

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#### 2.3 TRANSIENT ALERTING AND NOTIFICATION SYSTEM

Prompt alerting and notification of the transient population within the plume exposure EPZ utilizes the prompt alerting and notification system for the permanent resident population. The States of Delaware, New Jersey and the USCG have established methods for augmenting the prompt alerting and notification system that provides additional assurance that transients are notified in the event of an emergency requiring implementation of protective actions for the public. In general, the agencies in charge of parks and recreation, the Delaware National Guard, the marine police and the state police assist in the notification of transients within their jurisdictions. The alerting and notification of transients may utilize motor vehicles, aircraft, boats or road blocks. The methods used inform/educate the transient population of the prompt alerting system and their required response is provided in Section 8.0 of this plan. These subsystems are augmented by the use of route alerting by police and fire personnel.

#### 2.4 ROUTE ALERTING AS A BACK-UP ALERTING SYSTEM

The prompt alerting subsystems described previously are all augmented by the use of public address systems used by police and fire personnel.

#### 2.5 ALERT NOTIFICATION SYSTEM REPORT

The Alert Notification System Report for Salem and Hope Creek Generating Stations, submitted to FEMA to meet REP 10 requirements, provides appropriate reports on the design, hardware, and other applicable components of the systems, including specific letters of agreement, plans and procedures.

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#### TABLE 6-1

## NOTIFICATION AND ACTION SUMMARY

•	C	lass/Condition	I	icensee Actions		Offsite
A.	<u>Unu</u>	sual Event				
	1.	No radiological release requiring offsite response or monitoring is expected.	1.	Promptly inform NJ OEM and DE DSP/DEMA author- ities.	1.	Verify event classification/ status.
	2.	Potential degrad- ation of the level of safety of the plant.	3.	Assess event conditions and initiate corrective actions.  Augment on-shift resources as needed.	3.	Notify key person- nel.  Provide assistance if requested.  Standby until termination.
			4.	Escalate emergency level or terminate the event.		
В.	Ale	<u>rt</u>				
	1.	Potential/actual safety system degradation.	1.	Promptly inform NJ OEM and DE DSP/DEMA State authorities.	1.	Alert state response personnel & key county personnel.
	2.	Potential/actual radiological release is fraction of EPA PAG.	2.	Mobilize additional personnel to activate TSC. Emergency Duty Officer assumes control as Emergency Coordinator. Provide periodic plant status updates to the states.		Activate state EOC. Alert to standby/ activate Kent County, Cumberland County, New Castle County, and Salem County Emergency Coordinators.  Initiate field monitoring, if appropriate.
		,	3.	Assess event conditions & initiate corrective actions.	4.	Escalate emergency level or terminate
			4.	Dispatch field monitoring teams as applicable.		event.
			5.	Provide states with escalated emergency level or terminate event.		

## TABLE 6-1 (cont)

## NOTIFICATION AND ACTION SUMMARY

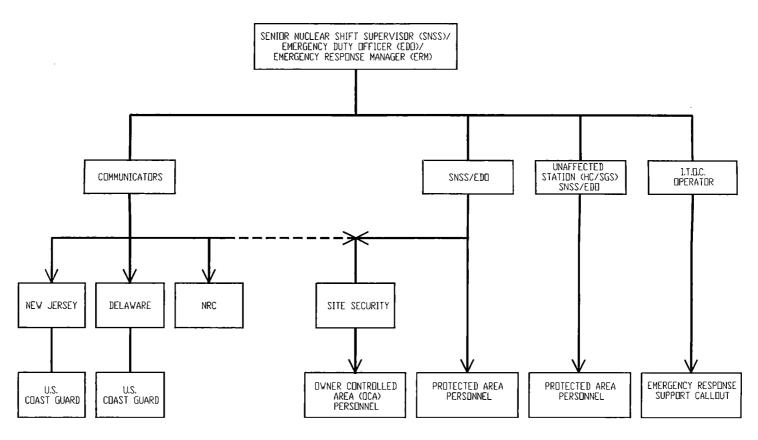
_	Cla	ass/Condition	<u>Li</u>	Censee Actions		Offsite
C.	<u>Site</u>	e Area Emergency				
	1.	Actual/likely major failure of plant function needed to protect public.	1.	Promptly inform NJ OEM and DE DSP/DEMA state authorities.	1.	Initiate prompt notification and activate EAS and keep public informed.
	2.	Radiological re- lease may exceed EPA PAG at site boundary.	2.	sources to act- ivate EOF. Emer- gency Response	2.	Alert all emergen- cy response personnel and act- ivate specific functions. Act-
	3.	Possible degraded core.	Manager assumes control as emergency coordinator.			ivate state, county and local EOCs.
	4.	Imminent loss of physical control of plant.	3.	Assess event conditions and initiate corrective actions.	3.	Monitor appropriate locations.
			4.	Conduct account- ability and release nonessential per- sonnel.	4.	Alert contiguous and ingestion pathway states.
		•	5.	Dispatch radio- logical monitoring teams.	5.	Provide assistance to the site, if required.
			6.	Provide states with: On/offsite radio- logical data, plant conditions, and meteorological data.	6.	Escalate or de- escalate emergency class.
			7.	Provide state with dose projections and recommend protective	act	tions.
			8.	Escalate or de- escalate emergency c	las	5.

#### TABLE 6-1 (cont)

#### NOTIFICATION AND ACTION SUMMARY

-	C]	lass/Condition	<u>L</u> j	censee Actions		Offsite
D.	Gene	eral Emergency				
	1.	Actual/imminent core degradation or melting with potential contain-	1.	Promptly notify State authorities: NJ OEM and DE DSP/ DEMA. Provide pre-	1.	Activate emergency and protective action functions.
	2	ment failure.		determined (based on plant condition)	2.	Make and implement protective
	2.	Actual/potential radiological release exceeding EPA PAG		protective action recommendations.		actions, including pathway measures.
	offsite.  3. Loss of two fission	2.	Notify County authorities: Salem EMS, Cumberland OEM,	3.	Regularly inform the public of emergency status.	
product barrie	product barriers and potential loss of the third.		New Castle OEM, and Kent OEM.	4.	Coordinate field monitoring with	
		3.	Notify municipal authority LAC and Coast Guard.		federal, offsite and onsite teams.	
			4.	Assess event cond- itions and initiate corrective actions.	5.	Continuously assess event effects upon the public.
			5.	Augment all resources.	6.	Reduce emergency class and initiate
			6.	Keep federal and state authorities informed of event status and developments.		recovery action.
			7.	Regularly provide radiological and meteorological data to the States.		
			8.	Initiate actions, mitigate the incident and terminate any radiological releases		
			9.	Initiate recovery action and reduce emergency class.		

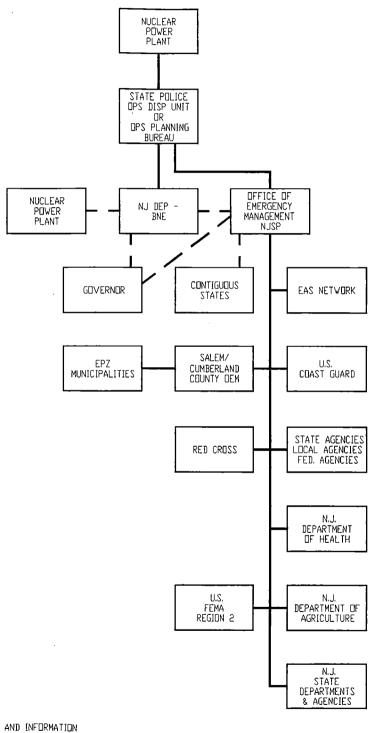
FIGURE 6-1
NOTIFICATION METHOD - PSE&G



## LEGEND

OF CLASSIFICATION ONLY, TO PREPARE THEM FOR PROTECTIVE ACTION DECISIONS COMING FROM THE SNSS/EDO.

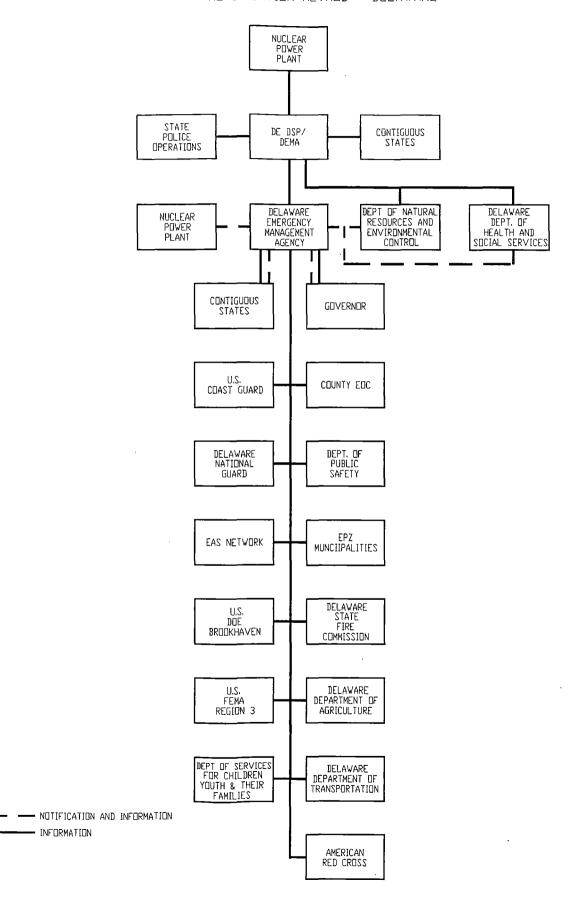
FIGURE 6-2
NOTIFICATION METHOD - NEW JERSEY



— NOTIFICATION AND INFORMATION

— INFORMATION

FIGURE 6-3 NOTIFICATION METHOD - DELAWARE



INFORMATION

## INITIAL CONTACT MESSAGE FORM

	THIS	S IS, COMMUNICATOR IN THE $\square$ CONTROL ROOM
		(NAME) ☐ TSC
	AT T	THE <b>SALEM</b> NUCLEAR GENERATING STATION, UNIT NO
: FT_		
Ia.	Ш	
		DECLARED AT ON ON (DATE)
		EAL #(s)
		DESCRIPTION OF EVENT:
IIb.		
		THIS IS NOTIFICATION OF A PROTECTIVE ACTION RECOMMENDATION
		UPGRADE WHICH WAS MADE AT HRS ON  (24 HOUR CLOCK) (DATE)
		Reason for PAR Upgrade:
		<u> </u>
III.		NO RADIOLOGICAL RELEASE IS IN PROGRESS.   see NOTE
)		THERE IS A RADIOLOGICAL RELEASE IN PROGRESS. for release definition
	33	3 FT. LEVEL WIND DIRECTION (From): WIND SPEED: (MPH)
		(From MET Computer) (DEGREES) (MPH)
IV.		NO PROTECTIVE ACTIONS ARE RECOMMENDED AT THIS TIME
		Sectors <u>DistMiles</u>
		WE RECOMMEND EVACUATION AS FOLLOWS
		WE RECOMMEND SHELTERING AS FOLLOWS
		· · · · · · · · · · · · · · · · · · ·
		EC Initials
		(Approval to Transmit ICMF)
NOT	<u>E</u> : Ra	adiological Release is defined as: Plant Effluent > Tech Spec Limit of 2.42E+05 µCi/sec Noble
	or	2.1E+01 μCi/sec I-131.

# FIGURE 6-5 TYPICAL STATION STATUS CHECKLIST

# STATION STATUS CHECKLIST (Pg. 1 of 2) Operational Information SALEM GENERATING STATION Unit No.\_\_\_ Message Date\_\_\_\_Time\_\_\_ Transmitted By: Name\_\_\_\_\_ Position: \_\_\_\_ (CR/TSC/EOF) 1. Date and Time Event Declared: Date \_\_\_\_\_ Time \_\_\_\_ (24 hr clock) 2. Event Classification: ☐ Unusual Event ☐ Site Area Emergency ☐ General Emergency □ Alert 3. Cause of Event: Primary Initiating Condition used for declaration ECG Section \_\_\_\_\_, Initiating Condition \_\_\_\_\_ Description of the event \_\_\_\_\_\_ 4. Status of Reactor: ☐ Tripped/Time \_\_\_\_ ☐ At Power ☐ Startup $\square$ Hot Standby $\square$ Hot Shutdown $\square$ Cold Shutdown $\square$ Refuel 5. PZR/RCS Pressure \_\_\_\_\_ psig Core Exit TC Hottest 6. Is offsite power available? ☐ YES ☐ NO 7. Are two or more diesel generators operable? ☐ YES ☐ NO 8. Did any Emergency Core Cooling Systems actuate? YES NO 9. Containment: A. Has the Containment been isolated? $\square$ YES ☐ YES ☐ NO B. Is it capable of being isolated? 10. Other pertinent information \_\_\_\_\_ Approved: \_

SGS

Rev. 17

EC or TSS or SSM

# FIGURE 6-5 (cont) TYPICAL STATION STATUS CHECKLIST

(T/S LIMITS: 2.42E+05µCi/sec NG or 2.10E+01µCi/sec IODINE) YES: [] RELEASE START TIME: DATE:				ATION STATUS ( PAGE 2 DIOLOGICAL IN	OF 2 )				
YES: [ ] RELEASE START TIME:	SALEM GEN	ERATING STATION	I UNIT NUMBER	R: CALC	ULATION TIME:_	DAT	E:	_	
B. ANTICIPATED OR KNOWN DURATION OF RELEASE: HOURS C. TYPE OF RELEASE: GROUND [] ELEVATED [] N/A [] D. ADJUSTED WIND SPEED: (mph) (m/sec) WIND DIR (deg from) E. STABILITY CLASS: (A-G) DELTA T: (deg C) F. VENT PATH OF RELEASE: R41 [] R45B/C [] R44 [] R46 [] G. NG RELEASE RATE: R41 [] R45B/C [] R44 [] R46 [] G. NG RELEASE RATE: R41 R45B/C R44 [] R45B/C R44 [] H. I-131 RELEASE RATE: R41 DEFAULT (µCI/sec) (circle if default) I. TOTAL RELEASE RATE IDDINE-131: (µCI/sec) J. TOTAL RELEASE RATE IDDINE-131: (µCI/sec) J. TOTAL RELEASE RATE IDDINE-131: (µCI/sec) J. TOTAL RELEASE RATE ODDINE-131: (µCI/sec) J. TOTAL RELEASE RATE IDDINE-131: (µCI/sec) J. TOTAL RELEASE RATE ODDINE-131: (µCI/sec) J. TOTAL RELEASE RATE ODINE-131: (µCI/sec) J	(T/S YES:	LIMITS: 2.42E+0	$0.5 \mu \mathrm{Ci/sec}$ NG	or 2.10E+01	· ·	-			
TEDE   DISTANCE   XU/Q   TEDE   DOSE   THYROID— THYROID—   FROM VENT   RATE   (4 DAY)   CDE RATE   CDE DOSE   (IN MILES)   (1/M2)   (MREM/HR)   (MREM)   (MREM/HR)   (MREM)	B. ANTICIPA C. TYPE OF D. ADJUSTE E. STABILIT F. VENT PA G. NG RELI H. I-131 F I. TOTAL R	ATED OR KNOWN F RELEASE: GROU ED WIND SPEED: Y CLASS: ATH OF RELEASE: EASE RATE: R41 R46 RELEASE RATE: R R46 ELEASE RATE NO	DURATION OF IND [ ]	RELEASE:	HOU N/A [ c) WIND T: (deg R44 [ ] R46 R44 R44 C) (circle if c	RS ] DIR (deg fro C) [ ] 		_	
DISTANCE XU/Q TEDE DOSE THYROID— THYROID— FROM VENT RATE (4 DAY) CDE RATE CDE DOSE (IN MILES) (1/M2) (MREM/HR) (MREM) (MREM/HR) (MREM)  MEA 0.79 2.00 LPZ 5.00 EPZ 10.00  3. OTHER PERTINENT INFORMATION:  NAME TIME INITIALS  STATE OF NEW JERSEY:  AGENCY:  APPROVED:	2. PROJECT	TED OFFSITE DOS	E RATE CALCU						
2.00	DISTANCE FROM VENT (IN MILES)	XU/Q T (1/M2)	TEDE RATE (MREM/HR)	DOSE	THYROID- CDE RATE (MREM/HR)	THYROID- CDE DOSE (MREM)			
3. OTHER PERTINENT INFORMATION:  4. UPDATE TO STATES (IF VERBALLY TRANSMITTED):  NAME  TIME  INITIALS  STATE OF NEW JERSEY:  STATE OF DELAWARE:  AGENCY:  APPROVED:	LPZ 5.00						•		
NAME TIME INITIALS  STATE OF NEW JERSEY:	3. OTHER I	PERTINENT INFOR	MATION:						
NAME TIME INITIALS  STATE OF NEW JERSEY:						<del>.</del>			
STATE OF DELAWARE :	4. UPDATE	TO STATES (IF	VERBALLY TRAI	,		TIME		INITIALS	
AGENCY: APPROVED:	ST	TATE OF NEW JE	RSEY:				-		
APPROVED:	SI	TATE OF DELAWA	RE :		<del></del>		-		
	AC	GENCY:					-		
					٠.	ורסייניה מיינים			
					AF	PROVED: _	EC or	RAC or RSM	_

FIGURE 6-6
PROMPT NOTIFICATION SYSTEM

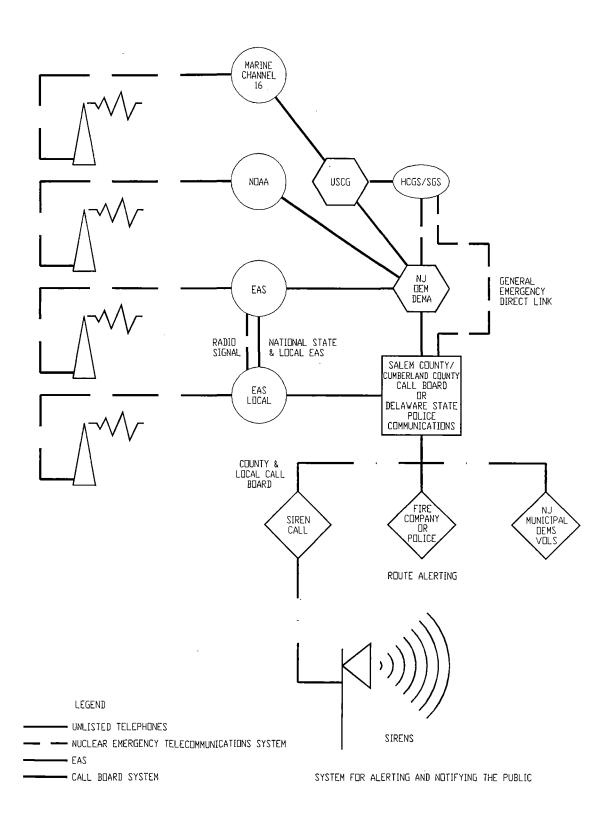
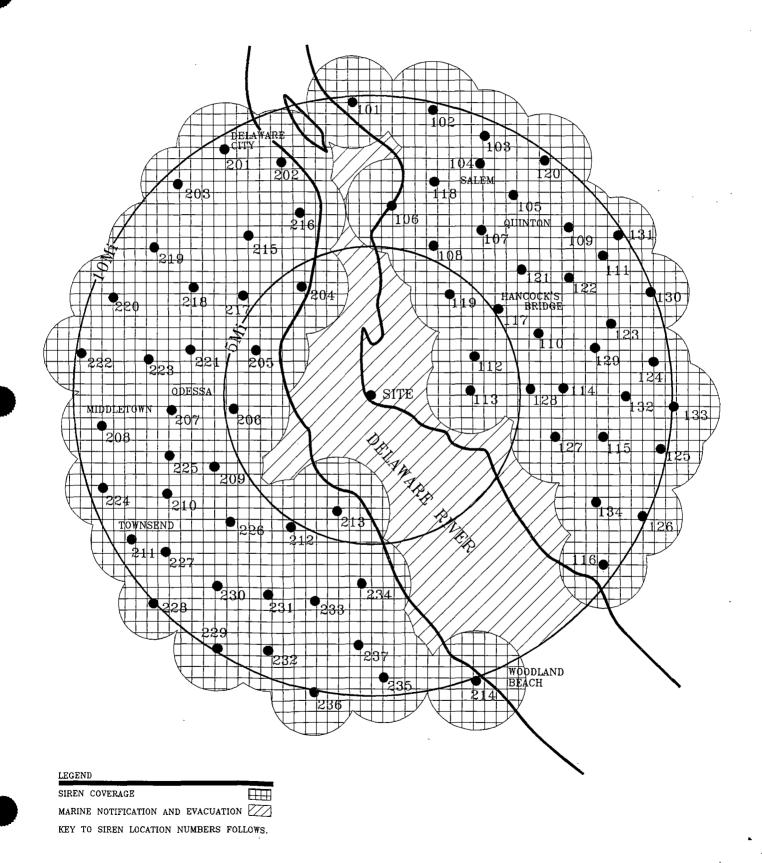


FIGURE 6-7
APPROXIMATE AREA OF PROMPT NOTIFICATION SYSTEM COVERAGE



Siren <u>No.</u>	State/City & County	<u>Location</u>	Type <sup>1</sup>	HP <sup>2</sup>	<u>PH</u> <sup>2</sup>
	·	New Jersey			
101	NJ/Pennsville Salem Co.	Fort Mott Rd, 0.1 miles South of Fort Mott Park.	P	10	1
102	NJ/Pennsville Salem Co.	Route 49, 1000 ft. South of intersection with Harrisonville Lighthouse Rd.	С	50	3
103	NJ/Salem Salem Co.	Route 45, 0.2 miles East of intersection with Tide Mill Rd.	В	10	3
104	NJ/Salem Salem Co.	New Market St. at inter- section with Belden St.	C	50	3
105	NJ/Salem Salem Co.	Quinton Rd., 0.2 miles West of intersection with Harris Rd.	В	10	3
106	NJ/Elsinboro Salem Co.	Delaware Ave., 0.1 miles East of intersection with Locust Ave.	С	50	3
107	NJ/Haggerville Salem Co.	Salem-Hancocks Bridge Rd.  1 mile from intersection with Amwellburg Rd.	С	50	3
108	NJ/Elsinboro Salem Co.	Fort Elfsborg-Hancocks Bridge Rd., 1200 ft. South East of intersection with Money Island Rd.	P	10	1
109	NJ/Quinton Salem Co.	Quinton Fire Dept., at the intersection of Rte 49 with Lake Ave.	С	50	3
110	NJ/Lower Alloways Creek Salem Co.	Harmersville-Pecks Corner- Cohansy Rd., 2000 ft. East of intersection with Mays Lane.	P	10	1
111	NJ/Quinton Salem Co.	Burden Hill Rd. 3000 ft. South West of intersection with Route 49.	P	10	1

Siren <u>No.</u>	State/City & County	Location	Type <sup>1</sup>	HP <sup>2</sup>	PH <sup>2</sup>
112	NJ/Lower Alloways Creek Salem Co.	Alloway Crk. Neck Rd. 2000 ft. South of intersection with Grosscup Rd. on Access Rd. to Artificial Island.	P	10	1
113	NJ/Lower Alloways Creek Salem Co.	Alloway Crk. Neck Rd. 1.8 miles South of intersection with Grosscup Rd. on Access Rd. to Artificial Island.	P	10	1
114	NJ/Lower Alloways Creek Salem Co.	Frog Ocean Rd., 1800 ft. East of intersection with Stow Neck Rd.	С	50	3
115	NJ/Stow Creek Cumberland Co.	Landing Rd. 0.1 miles West of intersection with Canton Rd.	<b>C</b>	50	3
116	NJ/Greenwich Cumberland Co.	Bay Side Rd., 1 mile West of intersection with Tindall Island Rd.	P	10	1
117	NJ/Lower Alloways Creek Salem Co.	.02 miles NE of Alloway Creek Neck Rd. on Locust Island Rd.	С	50	3
118	NJ/Elsinboro Salem Co.	.03 miles West of Hacket Rd. on Amwellbury Rd.	P	15	1
119	NJ/Elsinboro Salem Co.	Abbott's Farm Rd., 4300 ft. South of intersection with Fort Elfsborg-Hancocks Bridge Rd.	P	15	1 .
120	NJ/Salem Salem Co.	Quaker Neck Rd. at intersection with Sandy Ridge Rd.	P	15	1
121	NJ/Lower Alloways Creek Salem Co.	Beasley Neck Rd., 500 ft. North of intersection with Hogate Boulevard.	P	15	1

Siren <u>No.</u>	State/City & County	Location	Type <sup>1</sup>	HP <sup>2</sup>	PH <sup>2</sup>
122	NJ/Quinton Salem Co.	Cross Rd., 0.6 miles North of intersection with Hogate Boulevard.	P	15	1
123	NJ/Quinton Salem Co.	Quinton-Jericho Rd., at intersection with Mill Pond Rd.	P	15	1
124	NJ/Quinton Salem Co.	Quinton-Jericho Rd., 500 ft. North West of intersection with Gravelly Hill Rd.	P	15	1
125	NJ/Stow Creek Cumberland Co.	Willis Rd., 0.6 miles East of Frank Davis Rd.	P	15	I
126	NJ/Greenwich Cumberland Co.	0.5 miles North of Mill Rd. on Canton Rd.	P	15	1
127	NJ/Lower Alloways Creek Salem Co.	Frog Ocean Rd. at intersection with Frog Rd.	P	15	1
128	NJ/Lower Alloways Creek Salem Co.	Stow Neck Rd., 0.5 miles South of intersection with Long Bridge Rd.	P	15	1
129	NJ/Lower Alloways Creek Salem Co.	Maskell's Mill Rd. at intersection with Batter Cake Lane.	P	15	I
130	NJ/Quinton Salem Co.	Harmersville-Pecks Corner Cohansey Rd., 3500 ft. West of intersection with Route 49.	P	15	1
131	NJ/Quinton Salem Co.	Burden Hill Rd., 2000 ft. North of intersection with Route 49.	P	15	1

Siren <u>No.</u>	State/City & County	Location	Type <sup>1</sup>	<u>HP²</u>	<u>PH²</u>
132	NJ/Lower Alloways Creek Salem Co.	Buckhorn Rd. 8000 ft. West of intersection with Macanippuck Rd.	P	15	1
133	NJ/Stow Creek Salem Co.	Macanippuck Rd., 2000 ft. South of intersection with Buckhorn Rd.	P	15	1
134	NJ/Greenwich Cumberland Co.	Stathems Neck Rd., 5500 ft. West of intersection with Gum Tree Rd. (At the bend in the road).	P	15	1
		<u>Delaware</u>			
201	DE/Delaware City New Castle Co.	Route 72 at intersection with Clarks Corner Rd.	С	50	3
202	DE/Delaware City New Castle Co.	Clinton St. at intersection with Second St.	P	10	1
203	DE/St. Georges New Castle Co.	0.3 miles North of old C&D Canal Bridge on old Route 13.	<b>P</b>	10	1
204	DE/Port Penn New Castle Co.	Biddles Corner-Port Penn Rd., 0.1 miles West of intersection with River Rd.	P	15	3
205	DE/Bayview New Castle Co.	McDonough Bayview Rd., 0.2 miles West of intersection with Thomas Corner Rd.	P	15	1
206	DE/Thomas Landing New Castle Co.	0.8 miles North of Old Corbit Rd. on Route 9.	<b>P</b> .	10	1
207	DE/Odessa New Castle Co.	0.1 mile North of Rte. 299 on Rte 13 South.	P	10	1

Siren <u>No.</u>	State/City & County	Location	Type <sup>1</sup>	<u>HP<sup>2</sup></u>	<u>PH²</u>
208	DE/Middletown New Castle Co.	Main St. at intersection with New Rd.	С	50	3
209	DE/Mathews Corners New Castle Co.	0.5 miles SE of Rte 299 junction on Rte. 9.	P	10	1
210	DE/Fieldboro New Castle Co.	Noxontown Rd., 0.1 miles West of intersection with Route 13.	P	10	1
211	DE/Townsend New Castle Co.	Townsend Pine Tree Corner Rd., 0.1 miles West of intersection with Blackbird Middletown Rd.	P	15	3
212	DE/Taylors Bridge New Castle Co.	0.2 miles North of Walker School Rd. on Taylor's Bridge Rd.	P	10	1
213	De/Taylors Bridge New Castle Co.	2 miles East of Rte 9 on Cedar Swamp Rd.	P	10	1
214	DE/Woodland Beach Kent Co.	<ul><li>0.4 miles SE of Delaware Ave.</li><li>50 yds off Woodland Beach Rd in boat ramp parking lot.</li></ul>	P	10	1
215	DE/Port Penn New Castle Co.	Route 9, 0.8 miles South of Reedy Point Rd.	P	15	1
216	DE/Port Penn New Castle Co.	1.9 miles NE of Port Penn Rd. on Dutch Neck Rd.	P	15	1
217	DE/Port Penn New Castle Co.	0.4 miles SW of Port Penn Rd. on Corner Rd.	P	15	1
218	DE/St. Georges New Castle Co.	Route 13, 2500 ft. South of intersection with Biddles Corner-Port Penn Rd.	P	15	3

Siren <u>No.</u>	State/City & County	Location	Type <sup>1</sup>	HP <sup>2</sup>	<u>PH²</u>
219	DE/Biddles Corner New Castle Co.	0.4 miles North of Airmont Drive on Lorewood Grove Rd.	P	15	1
220	DE/Mt. Pleasant New Castle Co.	0.5 miles North of Churchtown Rd. on Ratlidge Rd.	P	15	1
221	DE/McDonough New Castle Co.	Route 13, 1000 ft. South of intersection with McDonough-Bayview Rd.	P	15	3
222	DE/Armstrong New Castle Co.	Route 301, 1500 ft. North of intersection with Armstrong Corner Rd.	P	15	3
223	DE/Armstrong New Castle Co.	1.2 miles North of Marl Pitt Rd. on Shallcross Lake Rd. (At bend in the road)	P	15	1
224	DE/Middletown New Castle Co.	0.5 miles South of Noxontown Mill Rd. on Route 71.	P	15	1
225	DE/Fieldboro New Castle Co.	1.1 miles South of Rte. 299 on Rte 13 North.	P	. 15	1
226	DE/Blackbird New Castle Co.	Taylors Bridge Rd. at intersection with Union Church Rd.	P	15	1
227	DE/Ginns Corner New Castle Co.	Route 13 North 0.7 miles North of mile marker 68.	P	15	3
228	DE/Blackbird New Castle Co.	0.2 miles West of Blackbird Forrest Rd. on Blackbird Station Rd.	P	15	1
229	DE/Blackbird New Castle Co.	Route 13 South 0.2 miles South of mile marker 75.	P	15	1

# APPROXIMATE AREA OF SIREN COVERAGE KEY TO LOCATIONS

Siren <u>No.</u>	State/City & County	<u>Location</u>	Type <sup>1</sup>	HP <sup>2</sup>	PH <sup>2</sup>
230	DE/Blackbird New Castle Co.	Gum Bush Rd., 2000 ft. North East of intersection with Blackbird Landing Rd.	P	15	1
231	DE/Walker New Castle Co.	Walker School Rd. at intersection with Gardner Rd.	P	15	1
232	DE/Walker New Castle Co.	Paddock Rd., 1750 ft. North of intersection with Black Diamond and Walker School Rds.	P	15	1
233	DE/Taylors Bridge New Castle Co.	Paddock Rd., 3500 ft. West of intersection with Route 9.	P	15	1
234	DE/Taylors Bridge New Castle Co.	Thoroughfare Neck Rd., 6000 ft. East of intersection with Route 9.	P	15	1
235	DE/Brick Store Kent Co.	County Rd. 82, 1000 ft. South of intersection with Route 9.	P	15	1
236	DE/Smyrna New Castle Co.	End of Brick Store Landing Rd., 1500 ft. East of intersection with County Rd. 503.	P	15	1
237	DE/Brickstore Kent Co.	0.6 miles South of Smyrna River Bridge on Route 9.	P	15	1
NOTES:					

#### NOTES:

(	·lγ	Type	PΒ	or C	sirens:
•	- 1		·	$\mathbf{o}$	OH CHO.

(2) Other siren information:

P	=	Penetrator
В	=	Banshee
C	=	Cyclone

HP = Horsepower PH = Phase

## SECTION 6

## SIGNATURE PAGE

Prepared By: (If Editori	al Revisions Only,	Dast Approved	w.3) Revisi	on)	15/9 <b>8</b> Date
Reviewed By:	Station Qua	//- lified Reviewe	er		Date
Reviewed By:	Depart	//A- ment Manager			Date
Reviewed By:	Domag. M Manager	ullu - CA, EP, & IT	1		1/22/98 Date
Reviewed By:	Manager Q (If App	uality Assessm licable)	nent		Date
	SORC Review	and Station A	pproval	s	
	1/4		1/2		
Mtg. No.	Salem Chairman	Mtg. No.	Hope	Creek	Chairman
	Date				Date
General Manager	- Salem	General Mar	nager -	Hope (	Creek
	Date				Date
Effective Date	of this Revision:	//28/ / Dat	98 ce		