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A045

PSEG NUCLEAR
EMERGENCY PLAN
May 31, 2000
CHANGE PAGES FOR
REVISION #38

PSE&G
CONTROL
COPY # EPIP059

The Table of Contents forms a general guide to the current revision of each section of the PLAN. The changes that are made in this TOC Revision #38 are shown below. Please check that your revision packet is complete and remove the outdated material listed below.

ADD			REMOVE		
Page	Description	Rev.	Page	Description	Rev.
i	T.O.C. (i)	38	i	T.O.C. (i)	37
ALL	Section 2	9	ALL	Section 2	8
ALL	Section 3	16	ALL	Section 3	15
ALL	Section 8	6	ALL	Section 8	5
ALL	Section 13	6	ALL	Section 13	5
ALL	Section 16	11	ALL	Section 16	10
ALL	Section 17	9	ALL	Section 17	8

PSEG NUCLEAR
EMERGENCY PLAN
TABLE OF CONTENTS

May 31, 2000
REVISION 38

PSE&G
CONTROL
COPY # EPIP059

SECTION 2

ASSIGNMENT OF RESPONSIBILITY

PSE&G CONTROL COPY # EPIP059

1.0 PSEG Nuclear

1.1 Internal Responsibility

PSEG Nuclear, operator of Salem and Hope Creek Generating Stations, has the primary responsibility for planning and implementing emergency measures within the site boundary. In addition to accident mitigation, this responsibility includes accident assessment and the evaluation of any real or potential risk to the public health and safety. Based upon this evaluation, appropriate offsite agencies are promptly notified of the Protective Action Recommendations (PAR) for the affected population areas.

The Manager - Emergency Preparedness (Mgr - EP) is the individual who is responsible for maintaining emergency preparedness for the Nuclear Business Unit. The Manager reports to the Director - Quality, Nuclear Training & Emergency Preparedness, who reports to the Chief Nuclear Officer and President - PSEG Nuclear. He reports directly to the Chief Executive Officer (CEO) of PSEG. Organization charts of both the corporate structure and nuclear department are presented in Figures 2-1 and 2-2.

During an emergency and for its duration, accident mitigation is the responsibility of the Operations Superintendent (OS). Support is supplied by the Technical Support Center (TSC) staff under the direction of the Emergency Duty Officer (EDO). Protective Action Recommendations are made from the TSC following its activation. Additional support is available from the Emergency Operations Facility (EOF) which is staffed and may be activated for Alerts and is always activated at a Site Area Emergency. Protective Action Recommendations are made from the EOF following its activation.

The Emergency Response Organization at each level of response is described in Section 3. Each emergency manager/supervisor is responsible for maintaining and ensuring the continuity of personnel and resources.

1.2 External Agreements

PSE&G has entered into agreements with the appropriate emergency response organizations which would provide onsite and offsite support in the event of an emergency at Hope Creek or Salem Generating Stations. These agreements are provided in the Emergency Plan Attachment, Attachment 2. Figures 2-3 and 2-4 show how these organizations interface with PSEG Nuclear. Figures 2-5 and 2-6 show how these organizations interface for protective action decision making.

2.0 Principal Government Jurisdictions in the EPZs

2.1 The State of Delaware

The Delaware Emergency Management Agency (DEMA), Department of Public Safety, has developed the Delaware Radiological Emergency Preparedness (REP) Plan and serves as the lead agency for coordinating state emergency actions as authorized in the Delaware Code Annotated Title 20, Chapter 31.

The Delaware Department of Natural Resources and Environmental Control (DNREC), as authorized by the Delaware Code Annotated Title 7, Chapter 60 is responsible for protecting the environment to include participation in accident assessment, mitigation and recovery efforts in the event of a radiological incident.

The Delaware Department of Health and Social Services (DHSS), as authorized by the Delaware Code Annotated, Title 16, Chapter 1, has the overall responsibility for protecting health and safety of the general public to include accident assessment, social services mitigation and recovery efforts in the event of radiological incident.

The Delaware Department of Agriculture (DDA), as authorized by the Delaware Code Annotated Title 29, Chapter 81, is responsible for protection of agriculture in the interest of health and safety of the public.

Delaware's accident assessment and protective action response is developed by the Accident Assessment Advisory Group (AAAG). The AAAG comprises members of the DNREC, DHSS with the Deputy Director of the Division of Public Health (DPH)and Division of Water Resources (DWR) Senior Science Advisor serving as the Co-Chairperson of the AAAG. Protective Action Recommendations are developed and provided to the DEMA Director, by the AAAG Chairperson.

The resources and response organization of the State of Delaware are described in the Delaware Radiological Emergency Plan. The development of protective actions is performed as outlined in Figures 2-3, 2-5 and 2-6 and discussed in detail in Sections 10.3 and 11.3.

2.2 The State of New Jersey

The Office of Emergency Management (OEM) of New Jersey State Police (NJSP)is granted the authority to assist in supervising and coordinating the emergency response activities of the state government and of all of the political subdivisions as outlined in the New Jersey Civil Defense Act of 1942, Chapter 251, as amended.

The New Jersey Department of Environmental Protection (DEP) is empowered by New Jersey Public Law 1958, Chapter 116 and Public Law 1961, Chapter 124, to take/recommend radiological protective actions as necessary to protect the public health or welfare.

The Superintendent of NJSP is the agency head who acts as New Jersey's emergency coordinator responsible for directing and/or coordinating all emergency response by New Jersey state agencies. The response organization for the State of New Jersey is provided as Figure 2-8.

The New Jersey Department of Environmental Protection is the lead agency for New Jersey's assessment of radiological emergencies. The Commissioner of the DEP is the agency head responsible for the response of that organization. The actions taken by DEP are coordinated through and parallel with the actions of the NJSP.

The resources and response organizations of the State of New Jersey are described in the New Jersey Radiological Emergency Response Plan. The development of protective actions is performed as outlined in Figures 2-4, 2-5 and 2-6 and is discussed in detail in Sections 10 and 11.

2.2.1 Local Governments

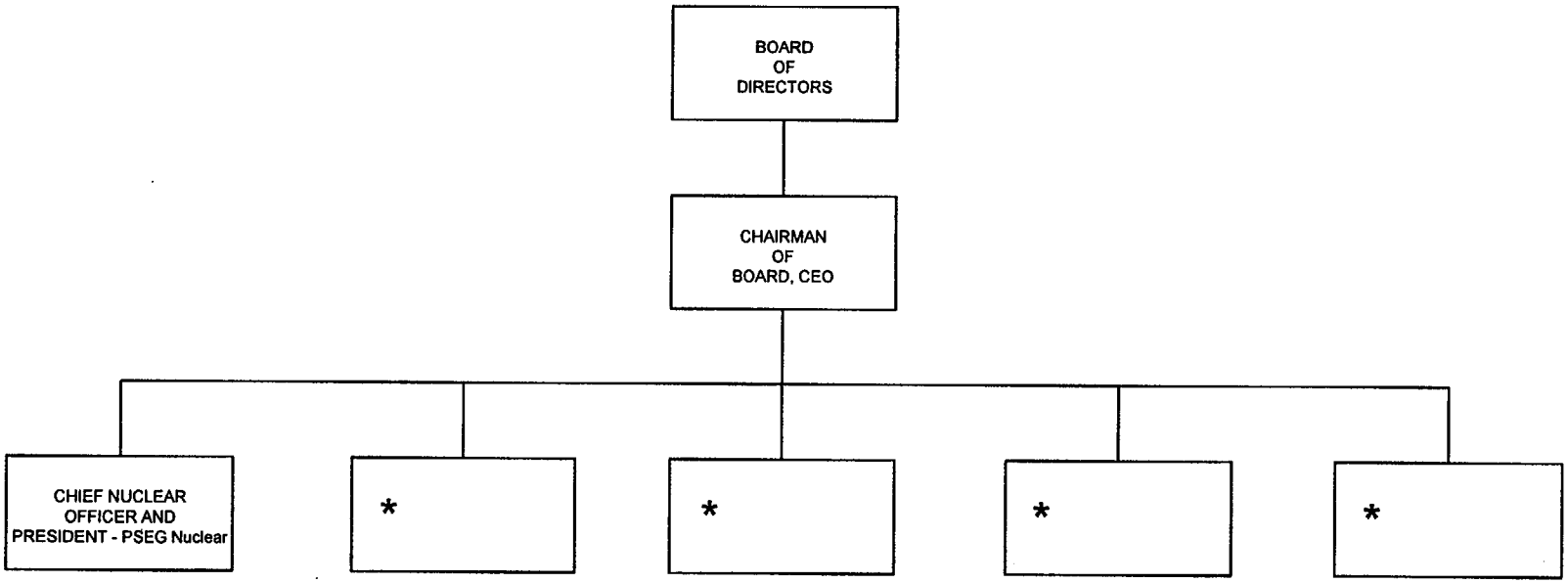
The County Emergency Management Coordinators for Salem and Cumberland Counties in New Jersey and the County Emergency Preparedness Coordinators for New Castle and Kent Counties in Delaware are the local government representatives who act as the county emergency coordinators. The response organizations for the counties are provided in Figures 2-9 through 2-12.

3.0 Contiguous (Ingestion Pathway) States

The States of Pennsylvania and Maryland are contiguous (ingestion pathway) states. The ingestion exposure pathway planning area is shown in Emergency Plan Section 1, Figure 1-1. The State of New Jersey has taken the primary responsibility for notification and communications with the contiguous (ingestion pathway) States of Pennsylvania and Maryland.

The Memoranda of Understanding (Emergency Plan Attachments, Attachment 2) between the State of New Jersey and the States of Pennsylvania and Maryland are available for review and is provided in supplementary volumes. Should the accident cause conditions offsite which justify monitoring of the ingestion pathway, the utility's emergency coordinator function verifies with the States of New Jersey and Delaware that the ingestion pathway is being monitored. Additionally, the individual acting in the emergency coordinator function verifies with the State of New Jersey that the States of Pennsylvania and Maryland have been notified. The State of Delaware also has agreements in force with the States of Maryland and Pennsylvania regarding emergency notifications. The criteria for recommending ingestion pathway monitoring is that radionuclide concentrations in excess of 10CFR20 Appendix B limits could potentially exist *or* are verified to exist offsite.

FIGURE 2-1
PSEG CORPORATE ORGANIZATION



*NOTE: Contact corporate Human Resources for the latest corporate PSEG structure.

FIGURE 2-2
PSEG NUCLEAR ORGANIZATION

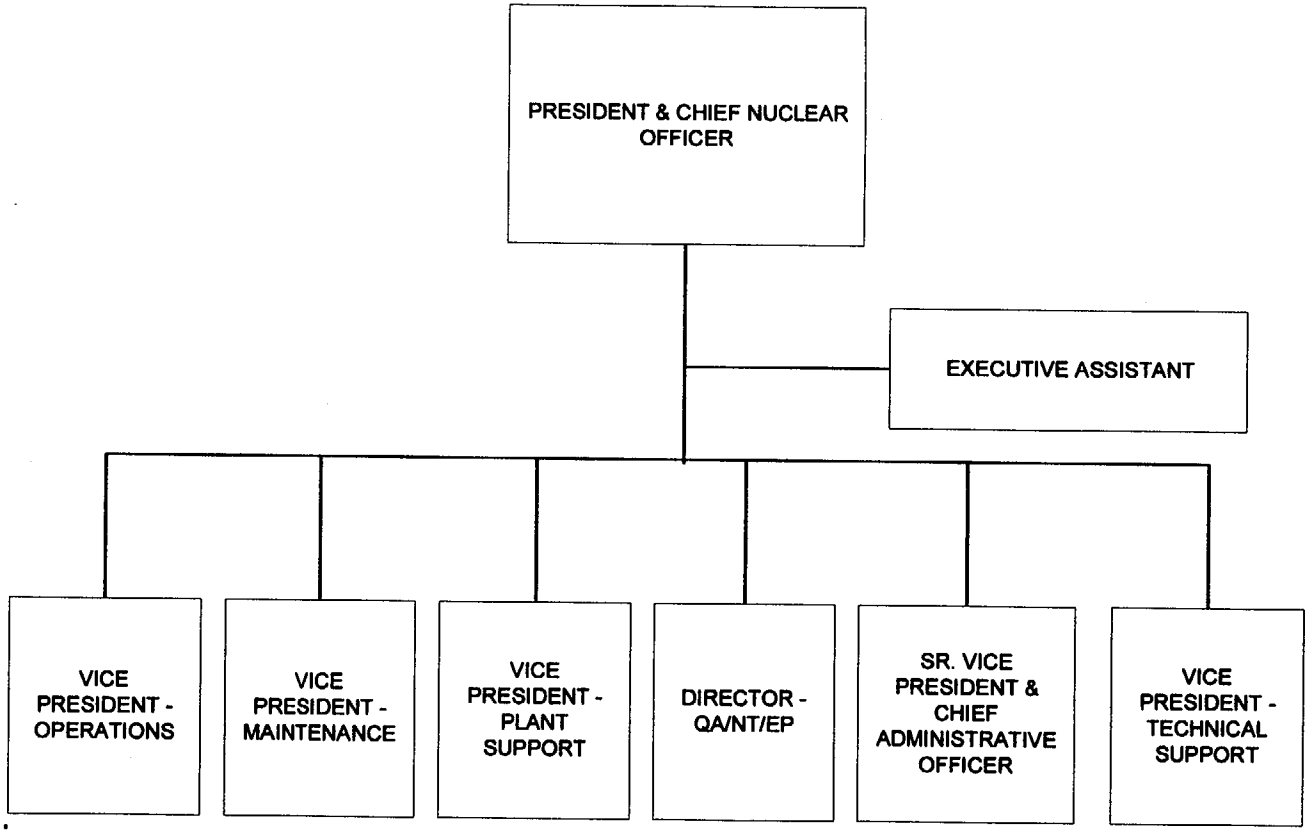
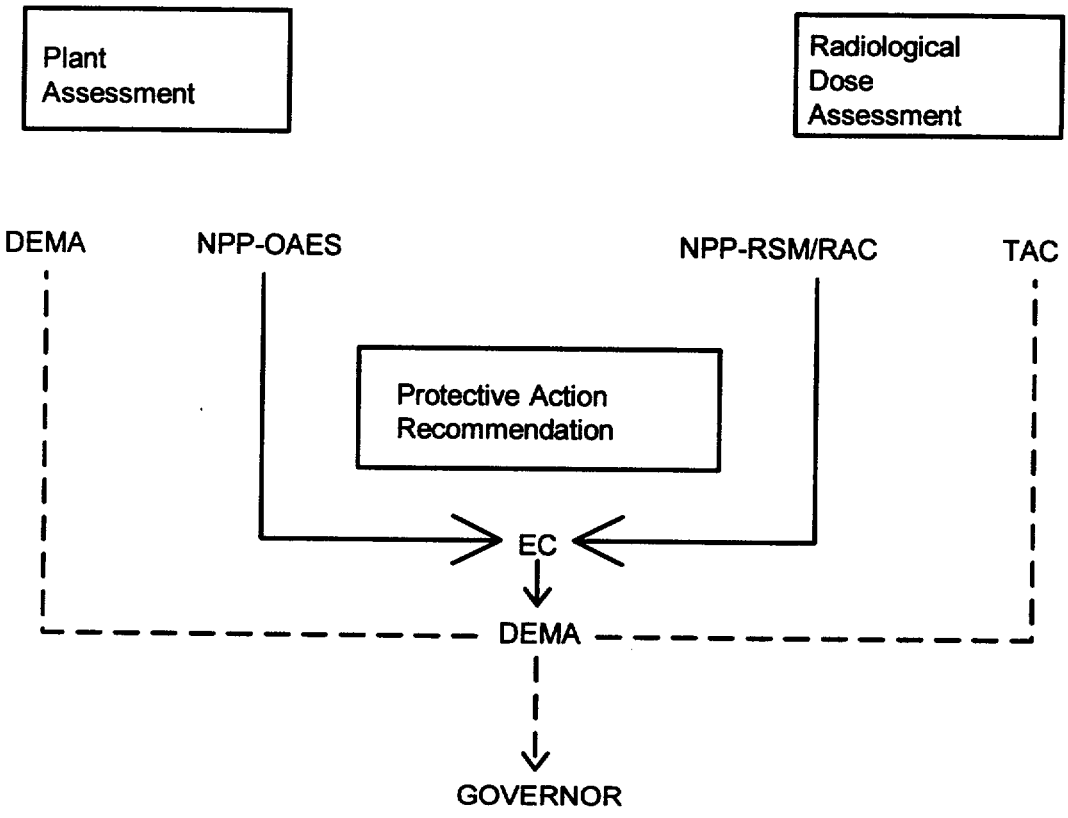


FIGURE 2-3
DELAWARE STATE INTERFACE

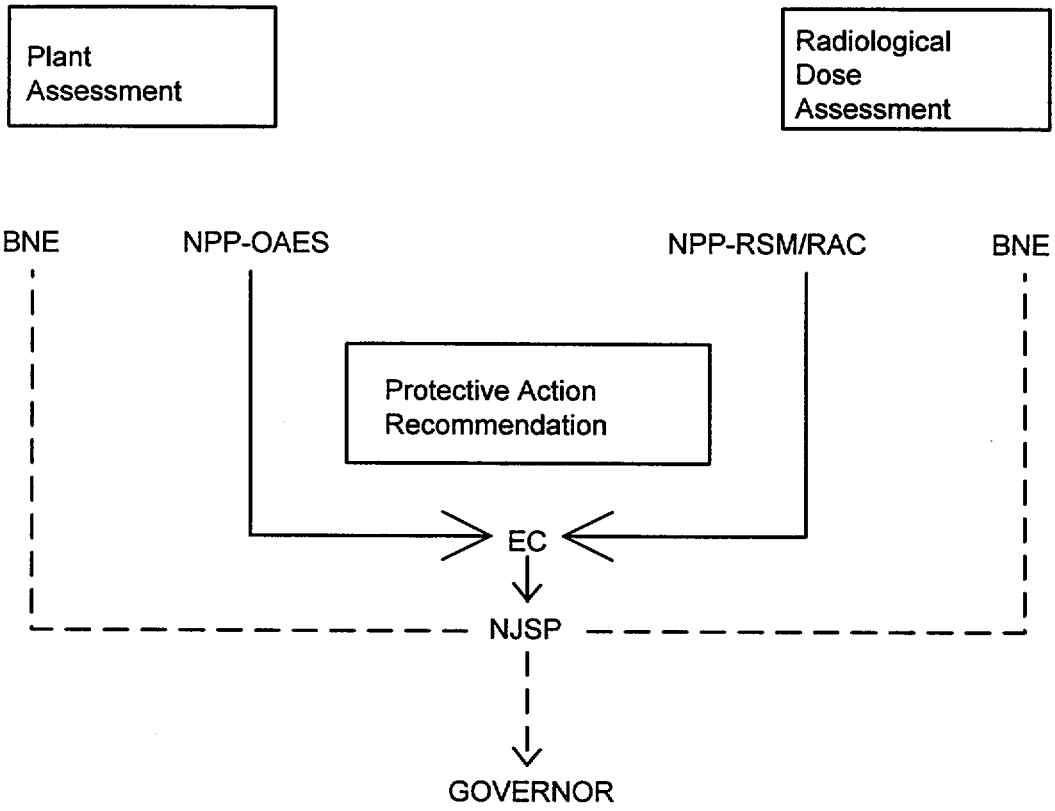


Key to Abbreviations/Symbols

- - - - state communication
——— utility communication

EC Emergency Coordinator (Operations Superintendent, Emergency Duty Officer, Emergency Response Manager)
NPP Nuclear Power Plant (Fixed Nuclear Facility)
RAC Radiological Assessment Coordinator
RSM Radiological Support Manager
OAES Operations Assessment and Engineering Staff
TAC TECHNICAL ASSESSMENT CENTER, State of Delaware
DEMA Delaware Emergency Management Agency, State of Delaware

FIGURE 2-4
NEW JERSEY STATE INTERFACE



Key to Abbreviations/Symbols

— — — — state communication
———— utility communication

EC Emergency Coordinator (Operations Superintendent, Emergency Duty Officer, Emergency Response Manager)
NPP Nuclear Power Plant (Fixed Nuclear Facility)
RAC Radiological Assessment Coordinator
RSM Radiological Support Manager
OAES Operations Assessment and Engineering Staff
BNE New Jersey Bureau of Nuclear Engineering, Department of Environmental Protection
NJSP New Jersey State Police

FIGURE 2-5

DECISION CHAIN
PROTECTIVE ACTIONS
FOR
EVENTS CLASSIFIED AS UNUSUAL EVENT,
ALERT OR SITE AREA EMERGENCY

KEY TO SYMBOLS

— — FUNCTIONAL ORGANIZATION

——— COORDINATION & RESPONSE

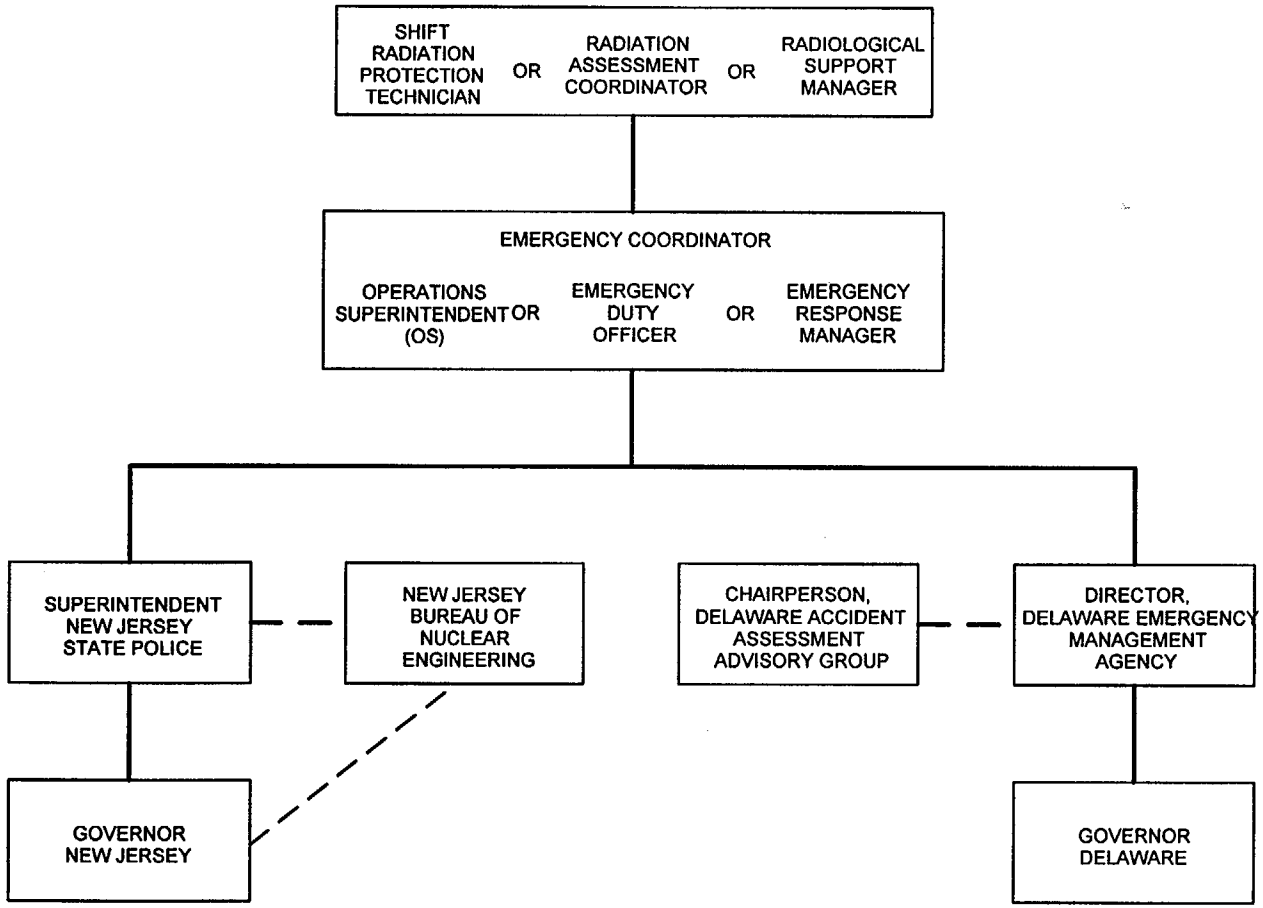
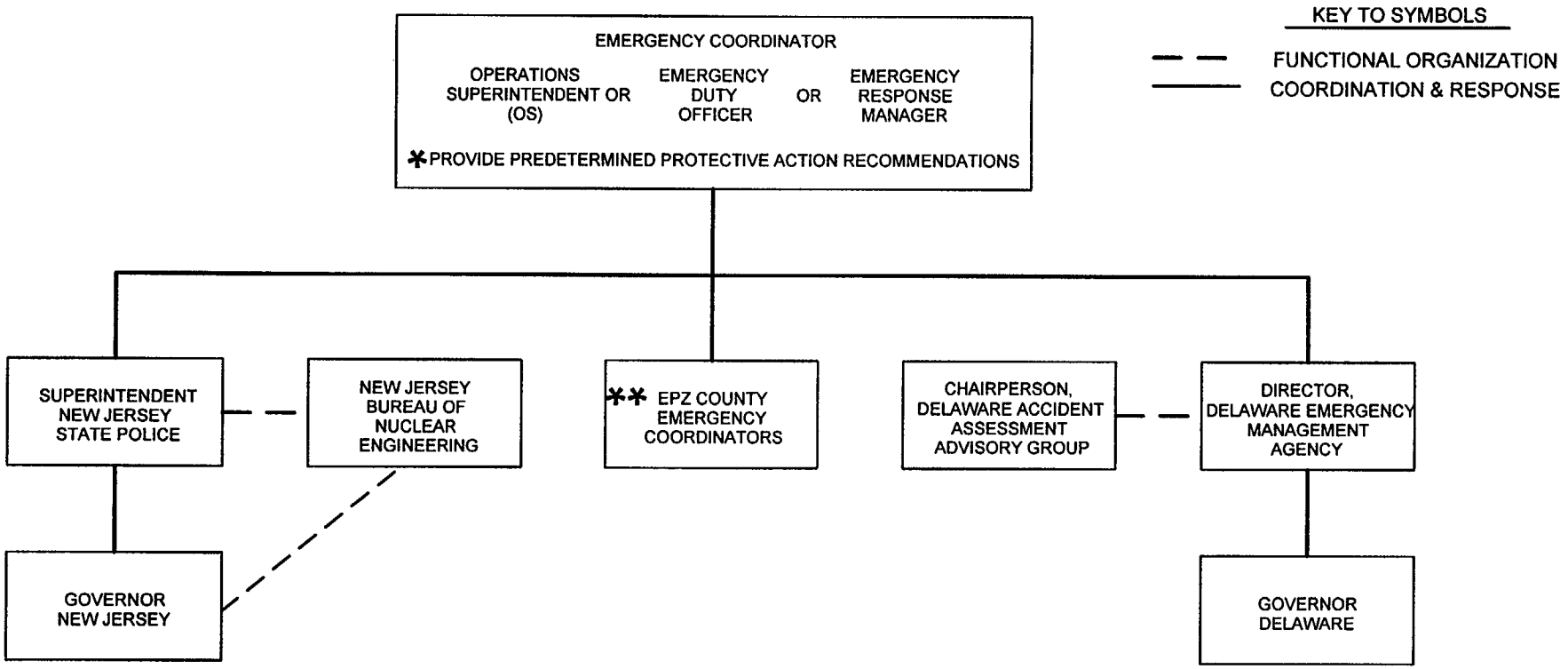


FIGURE 2-6

DECISION CHAIN
PROTECTIVE ACTIONS
FOR
EVENTS CLASSIFIED AS GENERAL EMERGENCY



*PREDETERMINED PROTECTIVE ACTION RECOMMENDATIONS ARE DEVELOPED IN ACCORDANCE WITH IE INFORMATION NOTICE 83-28 AND NUREG - 0654, REV. 1. RELEASE ASSESSMENT WILL THEN BE PERFORMED TO ENSURE APPROPRIATE PROTECTIVE ACTIONS HAVE BEEN DEVELOPED.

**COUNTY EMERGENCY COORDINATORS ARE SHOWN HERE BECAUSE THEY ARE NOTIFIED DIRECTLY AT A GENERAL EMERGENCY. THIS ALLOWS EXPEDIENCE FOR IMPLEMENTATION OF PROTECTIVE ACTIONS.

FIGURE 2-7

STATE OF DELAWARE
RADIOLOGICAL EMERGENCY RESPONSE
STATE ORGANIZATION

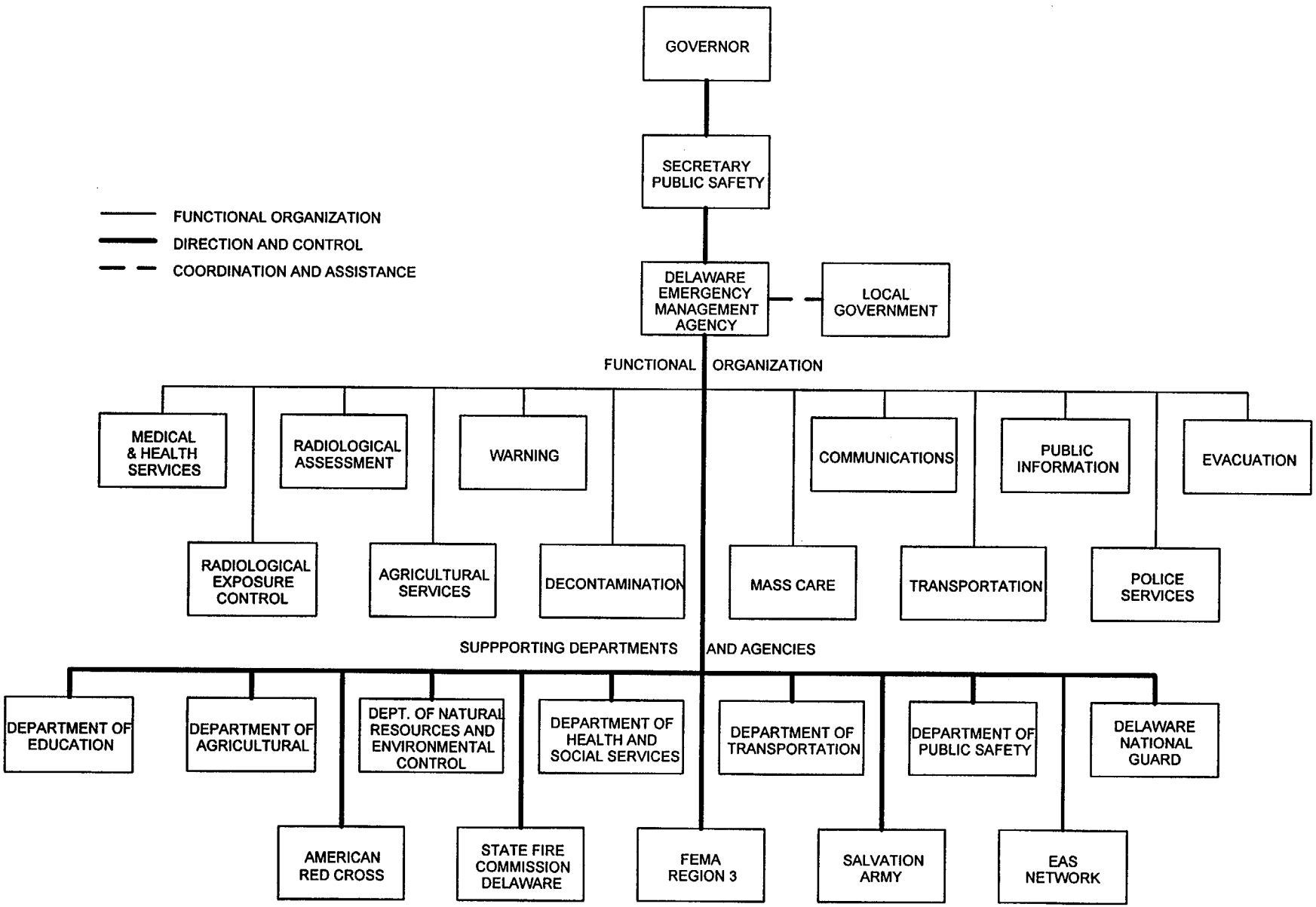
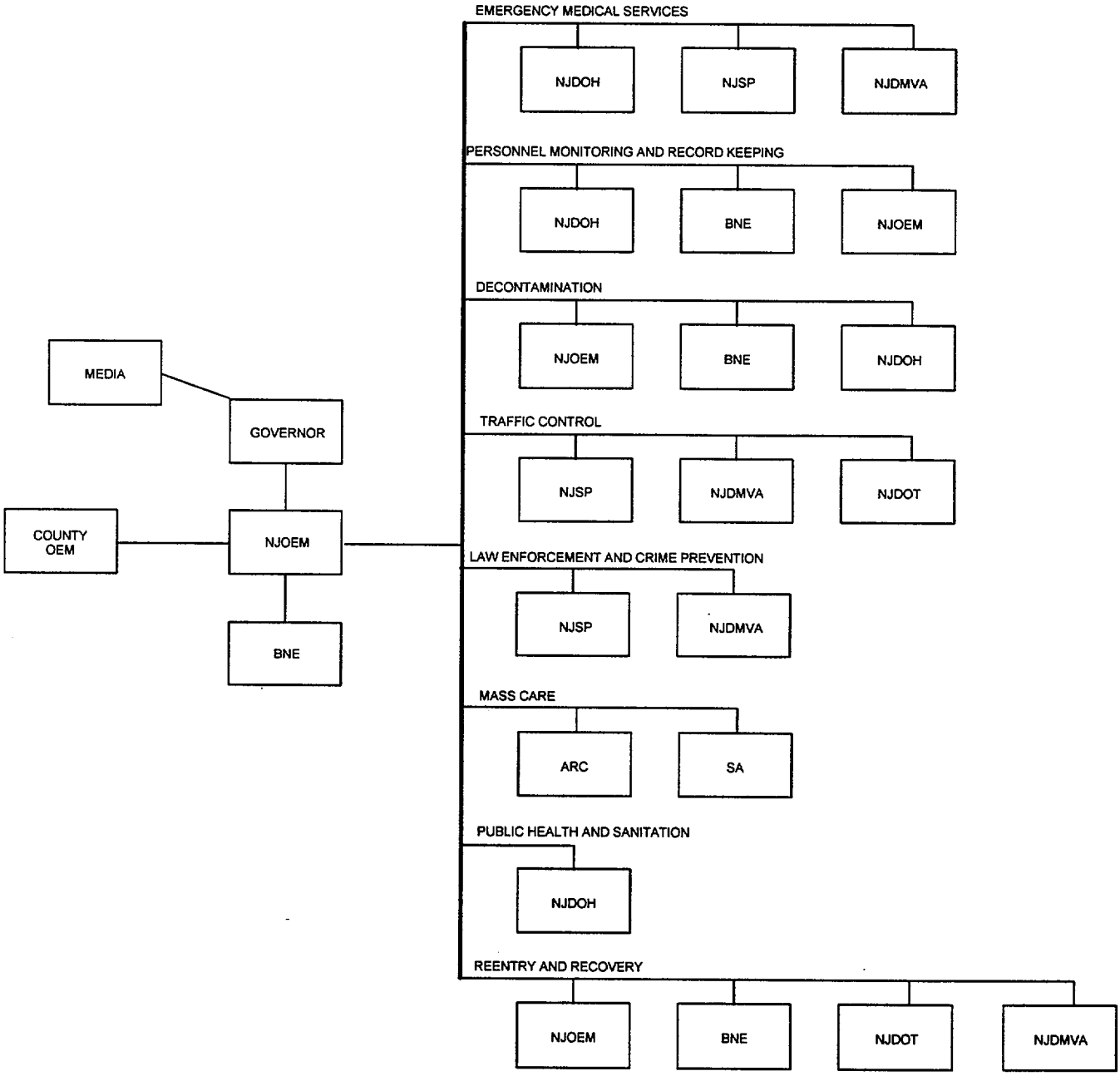
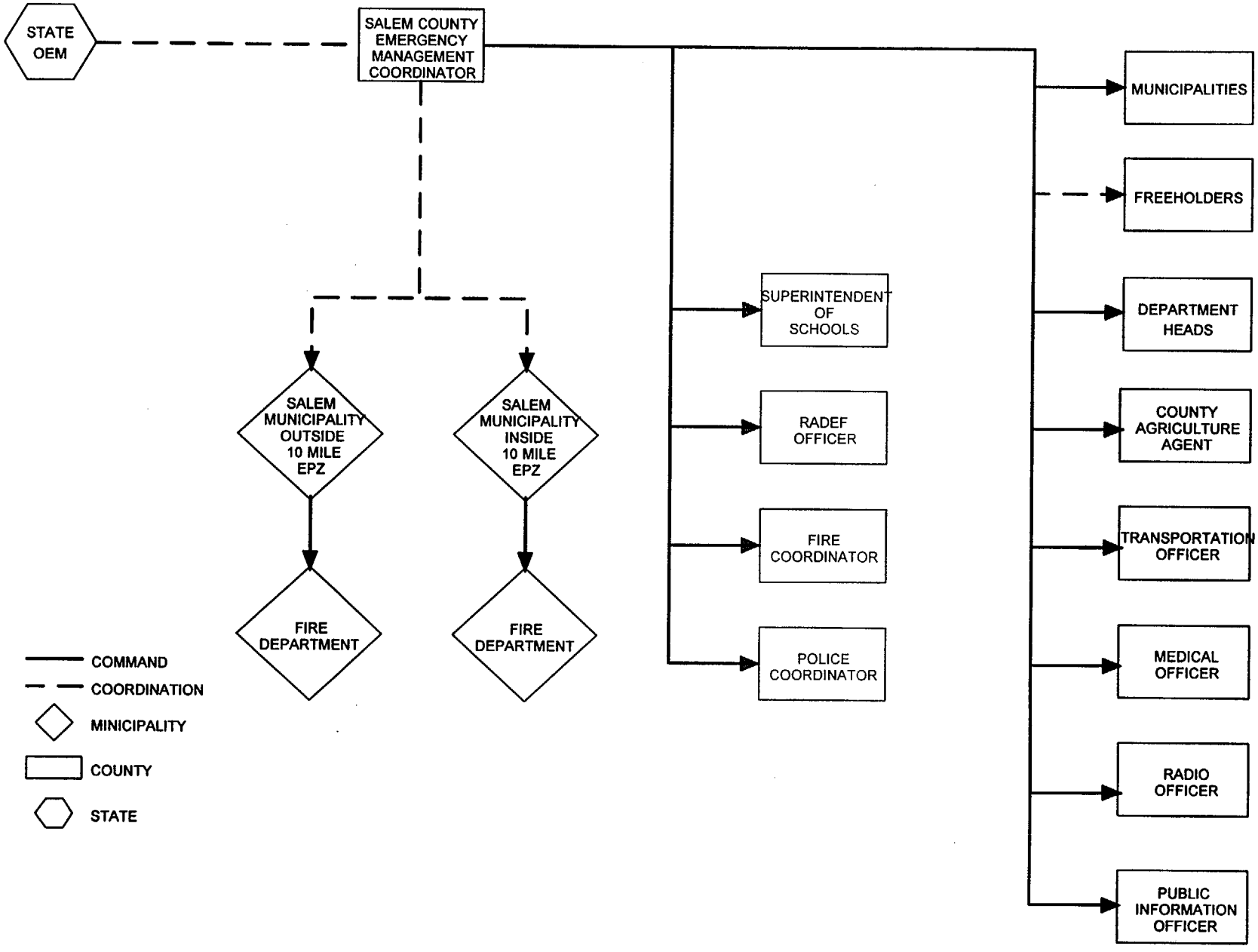


FIGURE 2-8

STATE OF NEW JERSEY
RADIOLOGICAL EMERGENCY RESPONSE
STATE ORGANIZATION



SALEM COUNTY
COUNTY EMERGENCY ORGANIZATION



CUMBERLAND COUNTY
COUNTY EMERGENCY ORGANIZATION

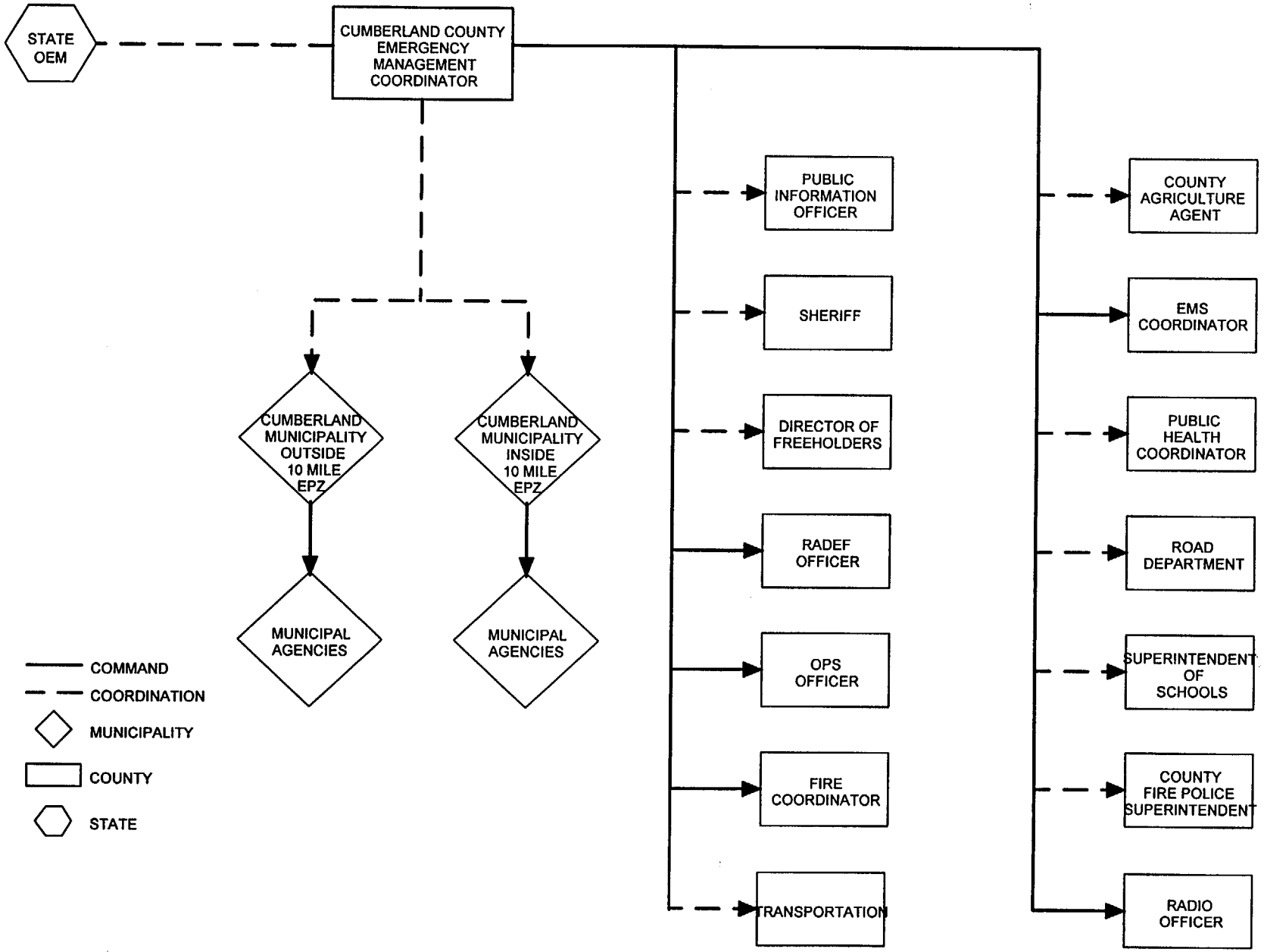
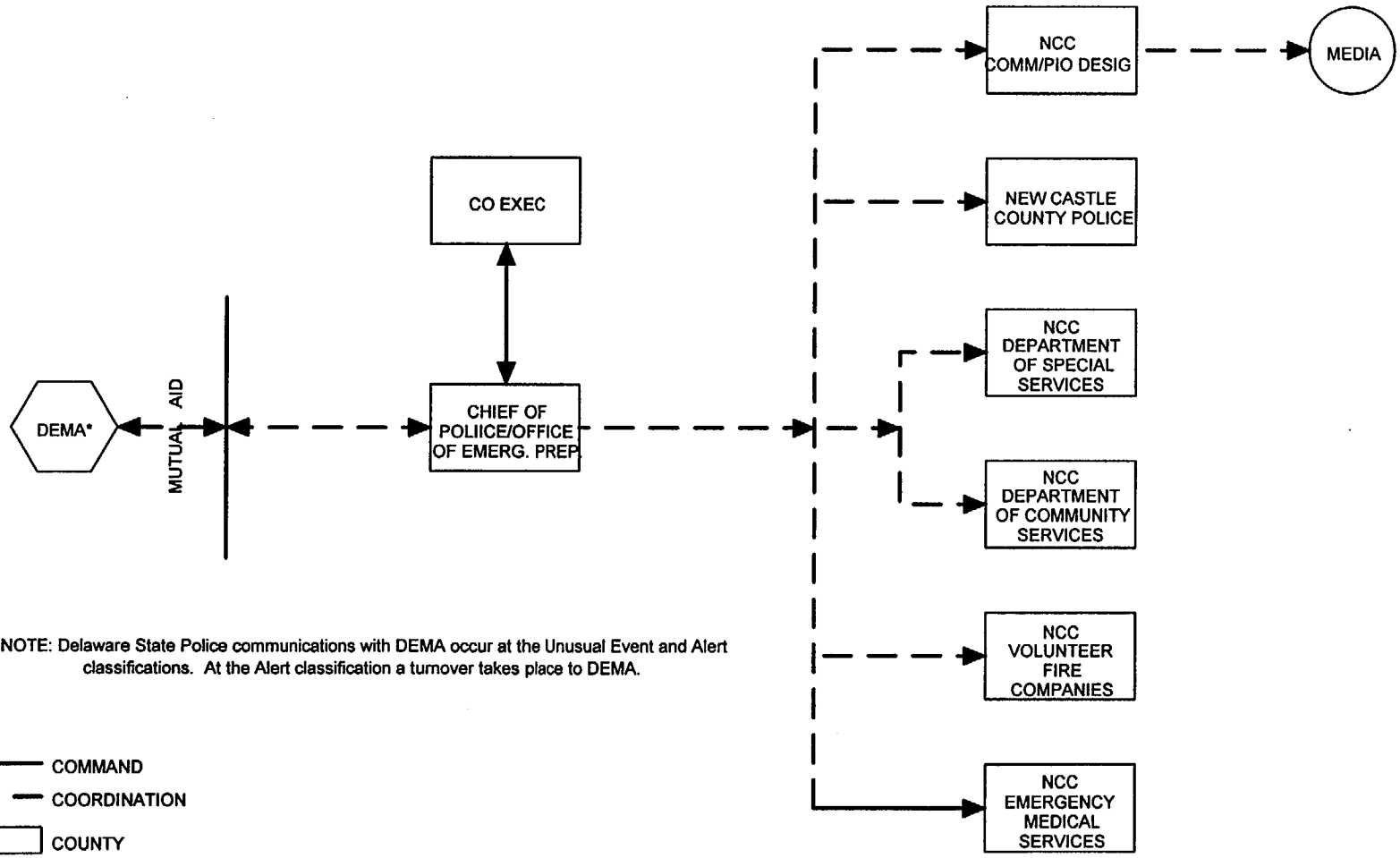


FIGURE 2-11

NEW CASTLE COUNTY (NCC)
COUNTY EMERGENCY ORGANIZATION

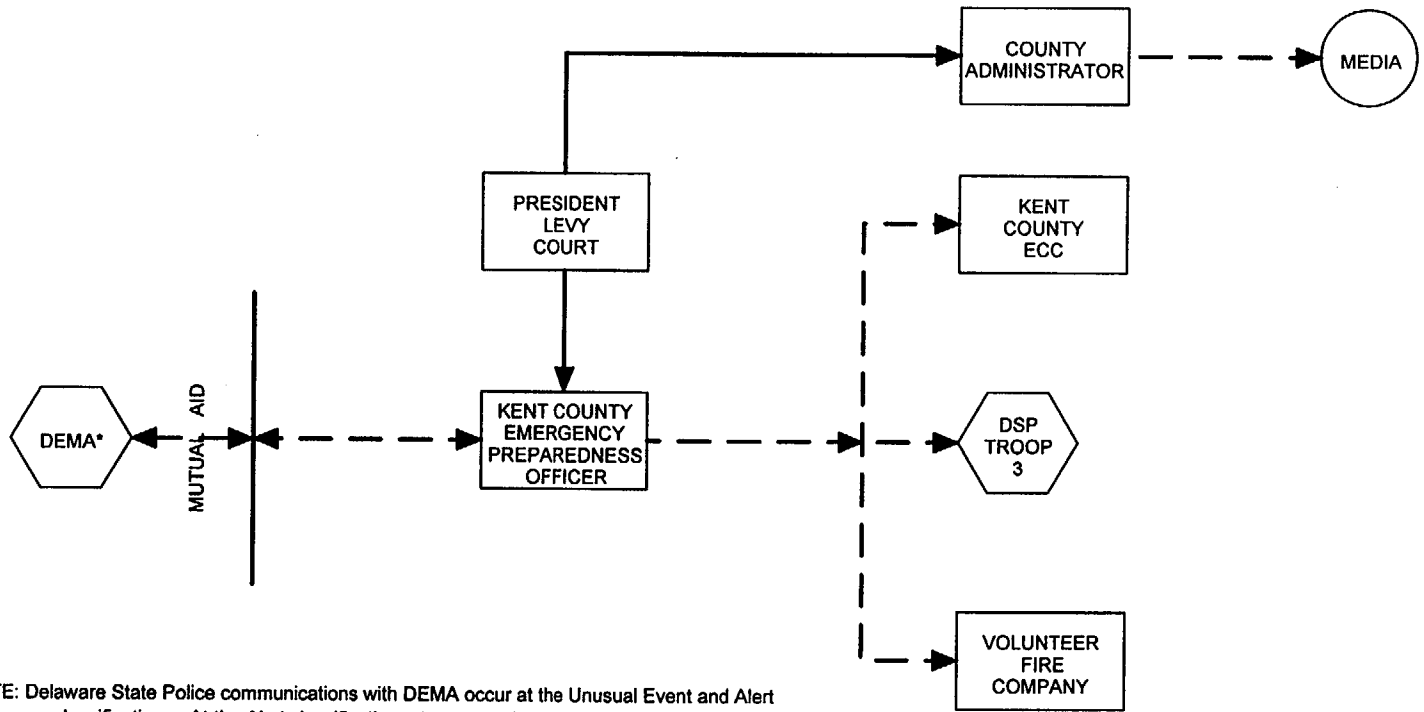


*NOTE: Delaware State Police communications with DEMA occur at the Unusual Event and Alert classifications. At the Alert classification a turnover takes place to DEMA.

COMMAND
COORDINATION
COUNTY
STATE
PRIVATE

FIGURE 2-12

KENT COUNTY
COUNTY EMERGENCY ORGANIZATION



*NOTE: Delaware State Police communications with DEMA occur at the Unusual Event and Alert classifications. At the Alert classification a turnover takes place to DEMA.

COMMAND
COORDINATION
COUNTY
STATE
PRIVATE

SECTION 2

SIGNATURE PAGE

Prepared By: W.A. Weckstein, Rev 1 — 3/15/00
(If Editorial Revisions Only, Last Approved Revision) — Date

Reviewed By: N/A — ____
Station Qualified Reviewer — Date

Reviewed By: N/A — ____
Department Manager — Date

Reviewed By: [signature] — 3/24/00
Manager- EP & IT — Date

Reviewed By: N/A — ____
Manager - Quality Assessment — Date
(If Applicable)

SORC Review and Station Approvals

____ N/A ____ ____ N/A ____
Mtg. No. Salem Chairman Mtg. No. Hope Creek Chairman

____ ____
Date Date

N/A ____
Vice President – Operations Date

Effective Date of this Revision 5-31-2000
Date

SECTION 3

EMERGENCY ORGANIZATION

1.0 Normal Management Organization

PSEG Nuclear is part of an investor-owned, public utility, PSEG, franchised by the State of New Jersey. Its primary purpose is to provide safe, adequate and reliable electric and gas service to its customers at reasonable rates. Management structure and reporting responsibilities for PSEG Nuclear are delineated in organizational charts (figures 2-1 & 2-2). The Manager - Emergency Preparedness, & Instructor Technology & Operation Experience (Manager - EP, IT, & OE) has been delegated the authority for developing, implementing, and maintaining a comprehensive program for emergency preparedness. The emergency preparedness program is designed to protect the health and safety of the public and onsite personnel during a nuclear plant accident while interfacing with federal, state and local agencies, and to coordinate the development of offsite and onsite plans.

2.0 Normal Shift Organization

2.1 Operations

The Operations Superintendent (OS) is normally the senior shift member of the station organization. The OS has the primary management responsibility for safe operation of the station during the shift. The OS maintains an overview of the unit's condition, makes decisions, and directs operations by giving specific directions and responsibilities to the shift personnel. The OS holds a Senior Reactor Operator's License and meets or exceeds the qualifications required by the Facility Technical Specifications.

The Control Room Supervisor (CRS) is an extension of the authority and responsibility of the OS. The CRS maintains an overview of the unit's status and condition. In the areas of operation to which he/she is assigned, the CRS is given the authority and responsibility to make decisions and direct operations by giving specific direction and responsibility to the shift personnel. All operations personnel are subject to the orders, directions and instructions of the CRS as though he/she were the OS.

The CRS coordinates the activities of the shift personnel with the OS to avoid conflicts and to ensure that all operations are performed according to the orders, directions, and instructions of the OS. The CRS holds a Senior Reactor Operator's License and meets or exceeds the qualifications required by Facility Technical Specifications. In the event that the OS is unable

to complete a shift, the CRS fills these positions until that position can be recalled from offsite.

Reactor/Plant Operators are assigned to the Control Room in accordance with the requirements of the Facility Technical Specifications. They are responsible for manipulating controls for startup, changing electrical output and reactor power, and plant shutdown, as required. Reactor and Plant Operators take directions from the OS and CRS.

The Equipment Operators perform duties outside the main control room necessary for safe continuous operation of the plant. Their duties include maintaining equipment logs, initiating actions to maintain assigned equipment in a safe condition, and operating auxiliary equipment as necessary to support plant operations. The Equipment Operators take directions from the Licensed Reactor/Plant Operators or CRS.

2.2 Fire Department and First Aid Team

The on-shift fire department is maintained in accordance with Technical Specifications and is staffed by full-time fire protection operators and fire fighters who have received fire-fighting and first-aid training. The fire department's staff reports to the Duty Nuclear Fire Protection Supervisor for normal assignments and directions but receives on-shift direction from the Operations Superintendent concerning priority response. The First Aid Team is a collateral duty of the Fire Department. The First Aid Team is staffed by personnel who are qualified Emergency Medical Technicians (EMT's) in the state of New Jersey.

2.3 Maintenance

The Shift Controls Technician Electrical are the members of the Maintenance Department who are available to perform surveillance and preventive and corrective maintenance on electrical distribution equipment. This position reports to the Maintenance Department for normal assignments and supervision and receives on-shift direction from the shift maintenance supervisor in coordination with the OS concerning priority repairs to support plant operations.

Maintenance on valves, pumps and other mechanical components is the responsibility of the Maintenance Department Nuclear Technician - Mechanical. These individuals are not included as part of a shift's normal staffing complement but are available, as needed, to support the required repairs. The Scheduled Controls Technician I&C are the members of the Maintenance Department who are responsible for preventive and corrective

maintenance on any instrumentation and controls. This position reports to the Maintenance Department for normal assignments and supervision but receives on-shift direction from the This position reports to the Maintenance Department for normal assignments and supervision and receives on-shift direction from the shift maintenance supervisor in coordination with the OS concerning priority repairs to support plant

2.4 Technical

The Technical Engineers with specialties in controls, electrical, mechanical, and core thermal engineering, who are assigned to the Technical Support Team, are members of the PSEG Nuclear Engineering Department. The PSEG Nuclear Engineering Department provides primary system engineering support during normal operations.

2.5 Security Organization

The on-duty PSEG Nuclear Security Supervisor and the Security Force are responsible for station security. These persons are assigned in accordance with the Station Security Plan and report to the Nuclear Security Manager for normal assignments and directions, but receive on-shift direction from the OS, concerning special access control requirements or accountability.

2.6 Radiation Protection/Chemistry Organization

The Salem and Hope Creek Generating Stations back shift Radiation Protection/Chemistry Organization consists of one Shift Radiation Protection (SRPT) and one On shift Radiation Protection Technician (ORPT), who is directed by the SRPT, and one Chemistry Technician.

When Radiation Protection Supervision is not present, the SRPT, ORPT, and any Radiation Protection Technicians (RPTs), who may be on shift, report to the OS. Radiation Protection personnel on the back-shift are normally responsible for conducting routine and special surveys, operating counting room instrumentation, maintaining access control at the Control Points, writing Radiation Work Permits and providing job coverage as required.

The Chemistry Technicians are the members of the Station Chemistry Department who are responsible for performing reactor coolant chemistry sampling and analysis. This position reports to the Chemistry Department for normal assignments and supervision, but receives on-shift direction from the OS concerning sampling required to support station operations.

During an Emergency, Chemistry Supervisors and technicians report to the OS, until the TSC is activated. The Chemistry Supervisor(s) and technicians report to the Radiological Assessment Coordinator (RAC), upon activation of the TSC.

3.0 Emergency Organization Functional Description

The emergency organization is explained by functional areas in this section and in Figures 3-1 thru 3-4. Figures 3-1 and 3-2 indicate onsite staffing for both stations. Only the Operations Support Center (OSC) and Technical Support Center (TSC) staff for the affected station will be initially activated. Detailed job descriptions for each box shown in the figures are provided in Part 9.0 of this section.

4.0 Emergency Direction and Control

The individual functioning in the position of Emergency Coordinator (EC) has overall responsibility to direct and control the Emergency Response. The function of EC passes from the OS to the Emergency Duty Officer (EDO) and to the Emergency Response Manager (ERM) as the emergency response organization is augmented. Responsibilities and duties of these three Emergency Response positions, (OS, EDO, ERM) are outlined in paragraph 9.0 of this section. The individual fulfilling the function of EC has the below listed responsibilities which are non-delegatable.

- Provide direction, control and coordination of PSEG NUCLEAR's Emergency Response.
- Authorize the expenditure of company funds and commit corporate resources as necessary to implement emergency procedures and/or to mitigate the accident.
- Classify emergencies in accordance with the Salem or Hope Creek Event Classification Guides.
- Make decisions to notify and recommend protective actions to offsite agencies.

4.1 On-Shift and Initial Augment

The OS initially has the emergency coordinator function and provides emergency direction and control (unless relieved by an EDO qualified member of Station Management). The OS has the authority and responsibility to immediately and unilaterally initiate any emergency actions. The CRS takes operational control of the unit while the OS is fulfilling the emergency coordinator function.

The Nuclear Shift Technical Advisor (NSTA) provides an independent engineering assessment of plant conditions and advises the OS of potential problems recognized as a result of the assessment (The NSTA and the CRS may be the same individual).

4.2 Short-Term Augment

Following the assumption of the emergency coordinator function (from the OS) by an EDO, the EDO has the authority and responsibility to immediately and unilaterally initiate any emergency actions. The OS then takes control of the unit and is responsible for issuing all orders concerning operations which require direction by a senior reactor operator licensed individual. The CRS assists the OS.

The NSTA provides an engineering assessment of plant conditions and advises the OS.

4.3 Long-Term Augment

Following the assumption of the emergency coordinator function (from the EDO) by the Emergency Response Manager (ERM), the ERM has the authority and responsibility to immediately and unilaterally initiate emergency actions. The Site Support Manager (SSM) is responsible for assessing and advising plant-related protective action recommendations to the ERM. The SSM receives plant condition information from the Technical Support Supervisor (TSS) located in the TSC.

The EDO retains the authority and responsibility for immediately and unilaterally initiating measures to protect the plant and onsite personnel.

4.4 Plant Operations

During an emergency, the normal Control Room staff is maintained. A more senior member of the station management, who holds a Senior Reactor Operators license may assume direct control of the shift after completing proper relief procedures

while the OS shall maintain the EC function until relieved by the EDO. Entry into the Severe Accident Management Guidelines will be in accordance with the station emergency operations procedures.

5.0 Corrective Actions and Support of Operations

5.1 On-Shift and Initial Augment

Upon determination by the OS of an emergency classified as an Alert or higher, the OSC is activated. The PSEG NUCLEAR Fire Dept., a Radwaste Operator, Equipment Operators, a Shift Controls Technician Electrical, and a Scheduled Shift Controls Technician I&C report to either the OSC or other onsite location as directed.

This initial group of individuals is under the control of the initial OSC Coordinator. Additional support personnel are called in by the OS.

The Operations Manager or Operations Superintendent - Assistant Operations Manager are normally expected under accident conditions to report to the Control Room of the affected unit to oversee plant operations and provide guidance and direction, as appropriate, to the OS.

5.2 Short-Term Augment

The initial OSC Coordinator takes control of the corrective action and support function from the OS and acts as an interface between the OS and the OSC support teams. The initial OSC Coordinator assumes the responsibility for directing corrective action and support activities and is responsible for supplementing the OSC staff as needed. The initial OSC Coordinator ensures through coordination with the EDO, that adequate OSC staffing is available prior to accomplishing a site evacuation. In addition to the on-shift staffing, an additional Controls Technician Electrical and Controls Technician I&C are called in.

The augment shall also consist of a supervisory group and respective support personnel functioning under the direction of the OSC Coordinator. The supervisory group consists of representatives from Maintenance, Operations, and Radiation Protection/Chemistry. These supervisors shall operate from the OSC. Support personnel shall report to the Ready Room until required for corrective actions. The Radiation Protection Supervisor for exposure control (OSC) shall additionally serve as a liaison between Radiation Protection at the Control Point and the OSC staff.

5.3 Long-Term Augment

The long-term augment consists of additional radwaste operators, electricians and machinist as necessary to support emergency response operations, and is under the control of the OSC Coordinator. This augment may include additional contractual assistance as established through the Administrative Support Manager (ASM) in the EOF.

6.0 Offsite Radiological Accident Assessment

6.1 On-Shift and Initial Augment

The SRPT is the individual responsible for radiological accident assessment on shift and reports to the OS. The SRPT at Hope Creek takes direction from the OS, until the TSC is activated. Upon activation of the TSC, the SRPT takes direction from the Radiological Assessment Coordinator (RAC) or his designee. The Salem SRPT takes direction for the duration of an emergency from the OS. The SRPT obtains radiological and meteorological data from the Radiation Monitoring System (RMS) and Plant Display Systems. Trained personnel are available on shift to do in plant and out-of-plant radiation surveys. The SRPT will make offsite dose projections using prescribed methods. These dose projections are used as a basis for offsite radiological protective action recommendations, which the SRPT relays to the OS in the Control Room. The OS considers both the recommendation from the SRPT and his own evaluation of the plant status (predetermined protective action recommendation) to derive an appropriate protective action recommendation to be communicated to offsite authorities. The SRPT also assigns onsite radiation protection and chemistry personnel to obtain radiation monitor data and coolant samples for analysis.

The ORPT takes direction from the SRPT or OS, until the TSC is activated. Upon activation of the TSC at Salem, the ORPT takes direction from the RAC. The ORPT at Hope Creek takes direction from the SRPT and the RAC upon activation of the TSC.

6.2 Short-Term Augment

The Radiological Assessment Coordinator (RAC) and additional support personnel report to the TSC to assume responsibility for offsite dose projection and monitoring. The Radiation Protection Supervisor Offsite directs onsite and offsite monitoring personnel and performs/directs dose calculations. The RAC provides information to the communicators to give the States of Delaware and New Jersey (updates of the Station Status Checklist), to enable the states to calculate an independent offsite dose projection.

6.3 Long-Term Augment

When the Emergency Operations Facility (EOF) is activated, the Radiological Support Manager (RSM) has responsibility for, offsite dose projections and offsite field monitoring. The Radiological Support Manager (RSM) directs offsite dose projection and field monitoring from the EOF. Communicators in the EOF assume the duties of providing offsite authorities with updates of the Station Status Checklist.

The Offsite Teams radio survey results to the Field Team Communicator. Radiological assessment staff members make offsite dose projections using either computer or manual calculational methods and Offsite Team survey results.

The dose projections are used as a basis for offsite protective action recommendations, which the RSM provides to the ERM.

The ERM considers both the recommendation from the RSM and the evaluation of the plant status to derive an appropriate protective action recommendation to offsite authorities via a communicator. The RSM uses additional information from plant sample analysis, State offsite monitoring teams, and other support organizations to provide the best possible radiological dose assessment and protective action recommendation.

7.0 Radiation Protection Onsite

7.1 On-Shift and Initial Augment

The OS is the individual responsible for radiation protection onsite. The OS is supported by SRPT/Chemistry personnel (both Hope Creek and Salem), available to do in plant, onsite radiation monitoring, PASS system preparation, and PASS sampling and analysis. Radiation Protection/Chemistry personnel also support onsite corrective actions, access control, personnel monitoring, dosimetry, search and rescue and first aid.

7.2 Short-Term Augment

As the emergency organization is augmented, additional Radiation Protection personnel report to the Control Point and the TSC. The SRPT continues with dose assessment and reports/gives results to the OS/EDO until relieved by the RAC. When relieved (turnover completed), the Hope Creek SRPT/ORPT assists with Radiation Protection activities at the CR, CP, TSC, and OSC, as needed and directed by the RAC or his designee. The Salem SRPT assists with Radiation Protection

activities at the CR, primarily, and OSC. The Salem ORPT assists with Radiation Protection activities at the CP, OSC, and TSC.

The RAC assumes responsibility for Onsite Radiation Protection/ Chemistry personnel. Radiation Protection personnel at the Hope Creek Control Point report to the SRPT/ORPT, who in turn reports to the RAC. Radiation Protection personnel at the Salem Control Point report to the ORPT, who in turn reports to the RAC. Chemistry personnel at the Control Point report to the Chemistry Supervisor at the Control Point. Additional support personnel are shown in Emergency Organization Figure 3-2.

7.3 Long Term Augment

The RAC continues to be responsible for onsite radiation protection at the TSC and CP. The Radiation Protection Staff is augmented as required by the emergency conditions. Additional Hope Creek radiation protection personnel report to the SRPT/ORPT at the Control Point who, in turn, reports to the RAC at the TSC. Additional Salem radiation protection personnel report to the ORPT at the Control Point who, in turn, reports to the RAC located at the TSC. This augment may include additional contractual assistance as established through the ASM in the EOF.

8.0 Plant Systems Assessment and Engineering

8.1 On-shift and Initial Augment

The NSTA, an individual experienced in core analysis and thermo hydraulics, provides plant systems assessment and evaluates plant conditions relative to emergency action levels. Recommendations for protective actions are made to the OS on plant conditions.

8.2 Short-Term Augment

The NSTA normally remains in the control room and directly advises the OS on plant assessment. The short-term augment personnel for the areas of Core/Thermo hydraulics, Nuclear Fuels, Mechanical Engineering and Electrical Engineering report to the Technical Support Supervisor in the TSC.

At the TSC the Technical Support Supervisor (TSS) takes command and direction of the Technical support team led by the Technical Support Team Leader,(TSTL). The TSS is responsible for making technical plant assessments and providing recommendations on protective actions to the EDO.

The Technical Support Team in the TSC is a group of engineers providing engineering support for the TSC and Control Room. This group, under the direction of the Technical Support Team Leader (TSTL), provides an assessment of plant systems and trends. The Operational Assessment Engineer(s) are engineers who are familiar with plant operational specifics.

8.3 Long-Term Augment

Assistance for the Technical Support Team in the TSC will be coordinated via the Technical Support Manager (TSM) in the EOF. The TSM shall callout Engineering Department personnel and supply the TSC with requested support and information.

The TSM in the EOF directs and coordinates engineering support (requested from TSC) and construction efforts required by the emergency response.

9.0 Emergency Organization Job Descriptions

The following job descriptions are the responsibilities and duties of the emergency response organization personnel as delineated in Figures 3-1, 3-2, 3-3, and 3-4. Position titles in figures 3-1, 3-2, 3-3, and 3-4 followed by an asterisk indicates that the position is optimal, but not required.

9.1 A. EMERGENCY DIRECTION AND CONTROL

A.1 Emergency Response Manager (ERM)

The ERM has overall responsibility for management of onsite and offsite emergency response activities. The ERM assumes EC functions from the EDO. When performing the function of EC the ERM is responsible for non-delegatable duties as described in part 4 of this section.

Duties:

1) An ERM is available 24 hours a day.

2) Under **ALERT** conditions, the ERM in coordination with the EDO, is responsible for making the decision to activate the Emergency Operations Facility (EOF) organization.

3) Under **SITE AREA** and **GENERAL EMERGENCY** conditions, the ERM automatically activates the EOF organization.

4) The ERM keeps corporate management advised of plant status and significant emergency response operations.

5) Upon arrival at the EOF, the ERM keeps a log of actions taken.

6) The ERM has ultimate authority and responsibility for the dissemination of technical information concerning plant conditions and emergency response operations.

7) The ERM acts as the principal corporate interface between the company and all other organizations.

8) In carrying out the duties of the position, the ERM designates alternates or others to act in his behalf as he deems necessary except for those functions not delegatable.

9) The SSM may assume the ERO position of ERM to include EC functions, if the ERM is unable to fill the position.

A.2 Site Support Manager (SSM)

The SSM reports to the ERM and is responsible for providing information to the ERM on plant conditions which may result in Protective Action Recommendations (PARs) to offsite authorities, or classification escalation.

Duties:

1) Reports to the ERM.

2) Coordinates with and is an interface between the TSC and the ERM.

3) Communicates with the TSS and is knowledgeable of current plant conditions such that he can determine if Emergency Action Levels (EALs) have been exceeded or if issuance of Protective Action Recommendations (PARs) is required.

4) Provides input information for plant condition PARs to the ERM. Also directs callouts for PARs transmitted to the states.

5) Responsible for providing technical information and briefings to the Public Information Liaison.

6) Upon notification of an emergency, the SSM notifies any additional individuals needed to support the site support function.

7) Upon arrival at the EOF, the SSM keeps a log of actions taken.

8) Notifies the ERM when prepared to assume site support functions in accordance with Emergency Plan Implementing Procedures (EPIPs).

9) Responsible for coordination and assignment of offsite support to individuals within the emergency response organization

10) Assumes the ERO position of ERM to include EC functions, if the ERM is unable to fill the position.

A.3 Emergency Duty Officer (EDO)

The EDO relieves the OS of the EC function and all accident management except plant operations. When performing the functions of the EC the EDO is responsible for the non-delegatable duties as described in part 4 of this section.

Duties:

1) Reports initially to the Control Room, if possible, to receive a turnover of the EC function and responsibility for emergency direction and control from the OS.

2) Evaluates plant and radiological conditions.

3) Responsible, when acting in the EC function, for ensuring accomplishment of the necessary assessment of offsite radiation concentrations resulting from a release.

4) Determines location to be used to assemble emergency personnel; ensures onsite/offsite communications are established.

5) Responsible for activating the TSC.

6) May call in additional station management as necessary.

7) Reviews near-term and long-term actions taken by the OS and briefs the OS on all significant information and actions taken.

8) Responsible for providing the point of contact with the NRC onsite.

9) Has the authority to order any required Protective Actions for onsite personnel.

10) Ensures all injured personnel receive proper assistance.

11) Ensures the dispatch of emergency/survey teams as required by the emergency conditions.

12) The TSS may assume the ERO position of EDO to include EC functions, if the EDO is unable to fill the position.

A.4 Operations Superintendent (OS)

The OS initially assumes the EC function and is responsible for initiating the necessary immediate actions to limit the consequences of an accident and bring the affected unit under control. When performing the function of EC, the OS is responsible for the non-delegatable duties as described in Part 4, Emergency Direction and Control, of this section in the Emergency Plan.

Duties:

1) Notifies and briefs the EDO of an emergency and determines the need for summoning additional personnel.

2) Evaluates plant and radiological conditions when in the EC function.

3) Maintains all required records by the EPIPs.

4) Initiates the required telephone notifications of offsite agencies, until the EDO assumes this responsibility.

5) Keeps the EDO informed of plant status.

6) Directs the operation of the plant in compliance with all normal plant procedures, directives, technical specifications, emergency procedures and severe accident guidelines.

7) Establishes priorities for OSC response activities.

A.5 Emergency Preparedness Coordinator (EPC) *

The EPC assists the ERM in evaluating the overall emergency response from the EOF. Additionally, the EPC assists in the assignment of response actions and provides resource and action guidance with respect to the emergency plan and emergency response commitments.

Duties:

1) Reviews data transmitted to offsite organizations.

2) Assists ERM in review of applicable procedures.

3) Provides guidance on offsite interface.

4) Assists ERM in developing/reviewing protective action recommendations.

9.2 B. PLANT OPERATIONS

B.1 Nuclear Shift Technical Advisor (NSTA)

The NSTA is the accident assessment advisor to the OS during emergencies.

Duties:

1) Provides technical operational advice to the OS during emergency.

2) May be the same individual as the CRS if all requirements are met.

B.2 Control Room Supervisor (CRS)

The CRS assists the OS during the emergency.

Duties:

1) Brief the OS and EDO as necessary.

B.3 Reactor Operator/Plant Operator (RO/PO)

The RO/PO supports the CRS in emergency assessment and plant emergency response.

Duties:

1) Provide additional assistance as directed by the CRS to mitigate effects of an emergency situation.

2) Manipulate controls for routine and, if necessary, emergency operations for the affected unit in accordance with the operating and emergency instructions.

B.4 Control Room Communicators (CM1/CM2)

The CM1/CM2 relay official messages for the OS, during an emergency, and gather plant data to be transmitted to emergency response facilities.

Duties:

1) At the request of the OS, deliver emergency notification messages to federal, state, and local authorities.

2) Call up additional personnel as requested.

B.4A Communicator - OPS Advisor (Hope Creek Only)

Gathers plant data and transmits it to other Emergency Response Facilities.

B.5 Equipment Operators (EO)

The EOs assist the CRS and RO/PO in accident assessment and emergency response operations.

Duties:

1) Operate plant equipment, including rad waste equipment, in support of emergency response and recovery operations.

2) Maintain equipment and associated logs.

3) Conduct search and rescue operations, if needed.

9.3 C. CORRECTIVE ACTION AND SUPPORT OF OPERATIONS

C.1 Operations Support Center Coordinator (OSCC)

The OSCC directs plant personnel in support of repair and corrective actions and acts as an interface between OS and the OSC Support Teams.

Duties:

1) Activates OSC, and assembles team.

2) Confirms team is briefed and radiologically equipped.

3) Directs fire fighting personnel during a fire emergency.

4) Provides the OS with status reports of repair and corrective actions.

C.2 Scheduled Controls Technician Instrument and Controls (I&C)

The Scheduled Controls Technician I&C assists in repair tasks as requested by the OS, OSCC, or OSC Support Supervisor.

Duties:

1) Activating equipment and monitoring equipment operation.

2) Receives direction from the Maintenance Supervisor or OSC Coordinator.

C.3 Shift Controls Technician Electrical
The Shift Electrician assists in repair related tasks as requested by the OS, OSCC, or OSC Support Supervisor.

Duties:

1) Supports the repair and corrective actions during emergency response and recovery operations.

2) Receives direction from the OSCC.

C.4.A OSC Operations Supervisor
C.4.B OSC Maintenance Supervisor (Mech)
C.4.C OSC Shift Maintenance Supervisor

These OSC Support Supervisors report to the OSCC. They are responsible for providing supervision of on-shift support in the OSC of Operations, Instrument and Controls, and Maintenance personnel.

Duties:

1) Assemble OSC teams as requested.

2) Coordinate corrective action.

3) Verify appropriate briefings, protective equipment, and dosimetry have been obtained by each team dispatched.

C.5.A OSC Radwaste Operator
C.5.B OSC Nuclear Tech - Mechanical
C.5.C OSC Nuclear Tech - Welder
C.5.D OSC Controls Tech Electrical
C.5.E OSC Controls Tech - I&C

These OSC Support Team Members report to the OSC Support Supervisor at the OSC. Assignments and responsibilities vary, but all disciplines provide general technical/ specialist support as requested. Members frequently are assigned to corrective actions and repair teams.

Duties:

1) Activate or monitor equipment.

2) Assess damage, determine condition, or report status of plant/plant equipment.
3) Receive direction from the Maintenance Supervisor.

C.6 Fire Department

The Fire Department reports to the OSCC and provides fire protection support to the Station.

Duties:

1) Provide fire fighting and first aid support.

2) Conduct search and rescue operations.

3) Conduct survey, repair and corrective actions.

C.7 Duty Storekeeper

The Duty Storekeeper reports to the OSCC to provide material control support to the OSC.

Duties:

1) Supply/obtain support materials as needed for OSC activities.

C.8 Planner

Support OSC Maintenance Supervisors in repair and corrective action activities.

Duties:

1) Assist in tagouts, parts identification, and procurement.

C.9.A This designator is no longer used

C.9.B This designator is no longer used

C.10 OSC Clerk

The OSC Clerk reports directly to the OSCC and provides administrative support to the OSC.

Duties:

1) Update OSC Status Boards and maintain the OSCC logbook.

2) Provide general clerical and administrative support to the OSC.

9.4 D. RADIOLOGICAL ACCIDENT ASSESSMENT

D.1 Radiological Support Manager (RSM)

The RSM reports to the ERM and is responsible for offsite assessment of potential or actual radiological consequences to the public. The RSM provides assistance to the RAC, as necessary.

Duties:

1) The RSM reports to the ERM.

2) The RSM is responsible for offsite dose assessment after the EOF has been activated. Prior to activation of the EOF organization, the RAC has this responsibility.

3) The RSM provides field monitoring teams for offsite radiological evaluation.

4) The RSM ensures radiological dose calculations are made.

5) The RSM provides input information on potential or actual radiological releases or consequences and PARs to the ERM. The RSM communicates with the States of Delaware and New Jersey, and relays radiological information and other pertinent information to them.

6) The RSM initiates and coordinates long-term environmental monitoring. Long-term assistance may also be drawn from other nuclear power utilities and contractors.

7) The RSM establishes communication with the medical assistance facilities, and personnel to put the Emergency Medical Assistance Plan into operation if necessary. Contact is established as defined in the Emergency Medical Assistance Plan.

8) After the emergency is under control and evacuation of the public is no longer likely, the RSM assists station personnel to determine efforts which may be used to further reduce exposures to the station operating personnel and to the public. The doses are evaluated for the duration of the exposure.

D.2 Radiological Assessment Staff - EOF

Responsible for maintaining dose calculations and assessing those calculations with respect to proper implementation of EALs and PARs onsite/offsite.

Duties:

1) Performs dose calculations and dose assessments to be used in determining protective action recommendations.

2) Assists station personnel to determine efforts which may be used to further reduce exposures to the station operating personnel and to the public.

3) Complete the radiological portion of the Station Status Checklist.

4) Coordinates and directs offsite monitoring from the EOF.

5) Evaluates data provided by the Field Teams to track the plume and confirm the dose estimates.

6) Monitors the habitability of the EOF.

7) Updates the radiological status boards.

8) Issue dosimetry and TLDs to offsite monitoring teams dispatched from the EOF.

9) Perform source term calculations.

10) Provide radiological assessment data to the SSM Communicators for the states.

D.3 Field Team Communicator

Responsible for maintaining offsite communications with Field Teams in the EOF.

Duties:

1) Establishes continuous communications with the Offsite Teams.

2) Ensures that Offsite Teams are kept up-to-date on the status of the emergency.

D.4 Offsite Team Members

Responsible for radiological support offsite as directed by the EOF.

Duties:

1) Performs offsite radiation and air sampling surveys as directed by the Radiological Support Manager or Radiological Assessment Coordinator.

2) Informs EOF or TSC of survey results.

9.5 E. RADIATION PROTECTION ONSITE

E.1 Radiological Assessment Coordinator (RAC)

The RAC, usually located in the TSC, assists the OS/EDO in matters relating to radiological problems during the emergency and provides radiological assessment and recommendations for protective action recommendations to the EDO. Upon an Alert or higher classification, the unaffected unit's RAC will report to the affected Station's Radiation Supervision to fulfill Radiation Protection Technician (RPT) duties, until relieved by RPTs who have been called in.

Duties:

1) Supervise the onsite Radiation Protection Organization.

2) Supervise the onsite Chemistry Organization.

3) Ensure that the TSC is activated for radiological response.

4) Ensure adequate emergency response staff for radiological and chemistry assessment.

5) Advise EDO on all station/site radiological issues.

6) Advise EDO on all offsite radiological issues.

7) Make final EAL recommendations to EDO on radiological issues.

8) Make recommendation of PAs to EDO for onsite personnel (including onsite evacuation).

9) Make final PARs to EDO for offsite considerations until assumption of control at EOF.

10) Advise/recommend applicable dose authorization extensions.

11) Provide the Station Status Checklist Radiological Data Section to EDO until assumption of control at EOF.

12) Interface directly with RSM at EOF.

13) Interface directly with NRC (in TSC or phone) on specific radiological issues.

14) Direct/review dose assessment at the TSC.

15) Ensure appropriate contamination controls are established.

16) Direct personnel and vehicle surveys and direct decontamination as required.

17) Direct vehicle surveys and decontamination as required if the EOF is not activated. Assist the RSM in vehicle surveys and decontamination as required if the EOF is activated.

18) Direct effluent sampling and analysis.

19) Recommend expenditures for additional equipment/ staff to support accident response.

20) Directs all onsite radiological and clinical sampling.

21) Designate when and who shall receive potassium iodide (KI).

E.2 Radiation Protection Supervisors (RPS)

Upon an Alert or higher classification, Hope Creek RPS will report to Salem Radiation Protection Supervision to fulfill RPT duties, until relieved by RPTs who have been called in. Upon an Alert or higher classification, Salem RPS will report to the Hope Creek Radiation Protection Supervision to fulfill RPT duties, until relieved by RPTs who have been called in.

E.2 RPS - Offsite (TSC)

The RPS - Offsite (TSC) is responsible for maintaining dose calculations (until relieved by EOF) assessing those calculations with respect to the proper implementation of EALs and evaluate radiological conditions for the development of PAs within the owner controlled area.

Duties:

1) Advise RAC of all radiological conditions.

2) Perform dose calculations and provide RAC with recommendations on onsite protective actions for the owner controlled area as appropriate.

3) Coordinate effluent analysis, steam lines, liquid, plant vent.

4) Direct onsite readings for projection purposes and provide findings to EDO/RSM staff.

5) Interface with Control Point on plant vent samples.

6) Monitor radiological EALs and advise RAC if EALs reached.

7) Supervise Radio Operator and two RP technicians for radio control of onsite monitoring teams. Onsite radiological monitoring for evacuees or personnel gathered at assembly stations. Escort onsite groups being moved or evacuated. Assume control of offsite teams until control assumed by EOF.

E.2 RPS - Exposure Control (OSC)

The RPS - Exposure Control (OSC) coordinates with OSC staff in order to facilitate timely RCAMs.

Duties:

1) Interface directly with OSCC and OS on RCAMs.

2) Support radiation work permits and approve authorization reviews for RCAMs.

3) Coordinate RP support personnel for RCAM with SRPT/ORPT/RAC at Hope Creek or ORPT/RAC at Salem.

4) Provide radiological planning for RCAMs.
5) Provide mission and status information to RAC or RPS - Offsite as time allows.

6) Implementation of protective actions concerning contamination and habitability for OSC/CR.

7) Coordinate dose extension authorization to support RCAMS.

8) Supervise RP Technicians assigned to the OSC.

9) Assist RP Technician assigned to the Control Room. (Salem Only)

E.3 Radiation Protection Technicians (RPT) (TSC Radio Operator*)

The RPT is responsible for radiological support for RCAMs, search and rescue, and medical support.

Duties:

1) Perform onsite radiation and air sampling surveys.

2) Conduct operational checks on all equipment.

3) Perform dose calculations.

4) Perform access control, and issue dosimetry.

5) Decontaminate personnel and equipment.

6) Provide sampling results to appropriate RPS.

7) Assist in Radiological Work Permits (RWP) preparation.

8) Support RCAMs as required.

9) Maintain communication with the Control Point.

10) Provide communications to onsite and offsite Field Teams.

11) Perform onsite/offsite radiological monitoring.

12) Issue radiological monitoring equipment.

13) Initiate/perform plant vent sampling and analysis.

E.3/E.4 Shift Radiation Protection Technician (SRPT)/Onsite Radiation Protection Technician (ORPT)

The SRPT/ORPT will assist and advise OS with respect to radiological conditions prior to TSC activation.

Duties:

1) Perform initial dose assessment.

2) Advises OS on radiological matters prior to being relieved by an RPS.

3) Evaluate Radiation Monitoring System (RMS) and provide long term RMS information to all Emergency Response Facilities.

4) Provide CR contamination control/habitability monitoring. 1) Support Repair and Corrective Action Missions (RCAM) with personnel and equipment (medical, search and rescue, fire fighting, escort, etc.)

5) Direct count room/instrument issue activities.

6) Assist in radwaste activities.

7) Coordinate inplant surveys, obtain inplant samples (noble gas/iodine), and effluent grab samples.

8) Direct access control and dosimetry issue.

9) Request dosimetry/WB count support for inplant personnel.

10) Coordinates decon of personnel and equipment.

11) Assess RMS readings for inplant habitability and protective equipment use.

12) Coordinates plant vent sampling and analysis.

E.5 Chemistry Supervisor

E.5 Chemistry Supervisor - CP/TSC

The Chemistry Supervisor - CP/TSC may be located at the CP or the TSC. He coordinates the Chemistry Section's response for sampling and analysis functions. Reports directly to the RAC.
Duties:

1) Coordinates Chemistry personnel activities.

2) Directs and coordinates high activity, PASS, and main steam sampling and analysis.

3) Coordinates activation of PASS in the recirculation mode and PASS sample room ventilation.

4) Relays sample analysis data initially, to the RAC and then the RSM once the EOF is activated.

5) Coordinates sample results with the Nuclear Fuels Group Team Leader when the EOF is activated.

6) Initiates sample log.

7) Updates Chemistry Status Board.

8) Augments Chemistry Staff when necessary.

9) Coordinates with Engineer - Nuclear Fuels in TSC.

10) Coordinates PASS, and main steam sampling

E.6 Chemistry Technician (CT)

The CT will assist and advise the Chemistry Supervisor with respect to sampling activities from the Control Point.

Duties:

1) Initiates/performs PASS, and main steam sampling

2) Disassembles, assembles, and operates the multi-channel analyzer.

3) Establishes backup laboratory facility.

4) Initiates PASS to recirculation, if TSC is not activated.

9.6 F. PLANT SYSTEMS ASSESSMENT AND ENGINEERING

F.1 Technical Support Supervisor (TSS)

The TSS has overall responsibility for tracking and trending plant conditions, identifying plant condition EALs and providing advice on PARs to the EDO, and when the EOF is activated, the SSM. The TSS is the lead evaluator and decision maker for the Severe Accident team.

Duties:

1) The TSS reports to the EDO.

2) The TSS evaluates the potential for an offsite radiological release based upon plant conditions in accordance with EALs. Prior to activation of the EOF, these evaluations are provided to the EDO for action. After activation of the EOF, these evaluations are provided to the SSM for action and the EDO for information.

3) The TSS provides advice to the EDO on priorities for plant repair and corrective actions.

4) The TSS is responsible for analysis and development of plans and procedures in direct support of operations personnel with the objective of placing the plant in a safe shutdown condition in a manner which minimizes any adverse health and safety effects on the public.

5) The TSS obtains an evaluation of instrument and controls problems from the Technical Support Team, determines alternatives, and coordinates the installation of short-term instrument and controls modifications.

6) The TSS directs the actions of the Technical Support Team Leader and the Technical Support Team in the TSC.

7) The TSS may assume the ERO position of EDO to include EC functions, if the EDO is unable to fill the position.

8) The TSS directs plant operations by providing specific instructions directly to shift personnel, after Severe Accident Management Guidelines (SAMG)transition has been made.

F.2 Technical Support Team Leader (TSTL)

The TSTL is responsible for coordination and guidance of the engineering support in the TSC. He will be the primary interface at the TSC for the TSM in the EOF. He will coordinate all engineering support required from the EOF.

Duties:

1) The TSTL reports to the TSS.

2) Coordinates all engineering tasks requested by the OS and the EDO.

3) Coordinates/Requests engineering support from the Technical Support Manager (TSM) at the EOF.

4) Serves as primary point-of-contact in TSC for TSM.

F.3 Engineer - Electrical

The Engineer - Electrical develops recommendations concerning plant operations relating to electrical systems and equipment for the TSTL.

Duties:

1) Analyzes plant electrical systems and equipment to determine current operating condition.

2) Reviews proposed plant operations with respect to electrical systems.

3) Receives instructions from and reports findings to the TSTL.

F.4 Engineer - Mechanical

The Engineer - Mechanical develops recommendations concerning plant operations relating to mechanical system for the TSTL. The Mechanical Engineer is an evaluator on the Severe Accident team.

Duties:

1) Forecast future values of EOP and SAG control parameters (parameter trending).

2) Identify plant conditions as they relate to EOP and SAG control parameters and specify the state of the plant in respect to those parameters.

3) Evaluate plant conditions, control room indications, and control parameters to determine core status.

4) Determine operability of a system and its availability.

5) Develop a methodology to restore a system.

6) Recommend appropriate EOP/SAG actions to follow based on trends, indications, or calculations.

F.5 Engineer - Controls

The Engineer - Controls develops engineering recommendations concerning control systems impacted by an emergency for the TSTL.

Duties:

1) Provides control systems accident assessment.

2) Analyzes plant control systems requiring trouble-shooting during an emergency.

3) Receives instructions from and reports to the TSTL.

F.6.A Core-Thermal Hydraulics Engineer

The Core - Thermal Hydraulics Engineer develops recommendations for plant operations that would affect safe core conditions for the TSTL.

Duties:

1) Analyzes core parameters to determine current conditions of the core.

2) Reviews proposed plant operations with respect to the effect on core conditions.

3) Receives instructions from and reports to the TSTL.

F.6.B Engineer - Nuclear Fuels*

The Engineer - Nuclear Fuels provides fuel damage assessment information to the TSS, RAC, TSM, and RSM.

Duties:

1) Evaluates fuel damages based core thermal conditions and specific chemistry samples.
2) Assists Core Thermal Hydraulics Engineer.

F.7 Emergency Preparedness Advisor (EPA) - TSC

The EPA reports to the EDO. The EPA is responsible for directing and supervising the activities of the TSC Communicators in obtaining and routing operational and radiological data.

Duties:

1) Verify that required offsite/onsite notifications are made and that notifications/responsibilities are turned over properly when control is passed from one facility to another.

2) Ensure that operational and radiological data are obtained, posted, and distributed in the TSC.

3) Assist in testing and maintaining communication systems in the TSC and other onsite facilities.

F.8 TSC Communicator

The TSC Communicator reports to the EPA/TSC at the TSC and is responsible, at direction of the EPA/TSC, to make official notifications, and to obtain and transmit data.

Duties:

1) Make required notifications.

2) Obtains operational data and radiological data.

3) Transmits data when requested.

F.8B OPS Advisor - TSC

The OPS Advisor - TSC reports to the TSS at the TSC and is responsible, at direction of the TSS, to obtain plant status information from the control room, keep TSC supervisors informed of plant status, assist in status board maintenance and serve as a backup to either one of the TSC Communicator positions (CM1/CM2). The Ops Advisor is an evaluator on the Severe Accident Team.

Duties:

1) Forecast future values of EOP and SAG control parameters (parameter trending).

2) Recommend appropriate EOP/SAG actions to follow based on trends, indications, or calculations.

F.9 Technical Support Manager (TSM)

The TSM is responsible for coordinating the need for engineering design changes and plant modifications as well as any engineering support requested by the TSC.

Duties:

1) Receives directions from and reports results to the ERM.

2) Conducts emergency response callout for the engineering support personnnel as needed.

3) Make recommendations concerning event mitigation.

4) Coordinates support activities with the TSTL in the TSC.

F.10. This designation is not used

F.11 Licensing Support*

Coordinates Licensing Department effort to support the TSM and TSS.

Duties:

1) Provide guidance on Licensing and Regulatory commitments as they pertain to the emergency.

9.7 G. PUBLIC INFORMATION

G.1 Company Spokesperson (CS)

The CS is a senior management representative responsible for representing PSEG NUCLEAR in news media briefings.

Duties:

1) Act as official Company Spokesperson.

2) Counsel PSEG top corporate management on status of accident and Emergency News Center briefings.

3) Give direction to Lead Technical Advisor and ENC Manager.

4) Upon ENC activation, review and approve News Bulletins and other releases to the media.

G.2 Emergency News Center Manager (ENCM)

The ENCM is responsible for the overall operation of the ENC including the dissemination of information and media monitoring.

Duties:

1) Coordinate the dissemination of media information from the ENC.

2) Approve News Bulletins when directed by CS or if CS is unavailable.

3) Ensure information is coordinated with and disseminated to County, State, and Federal representatives at the ENC before it is released to the media.

4) Coordinate media briefings with PSEG Nuclear, industry, County, State and Federal representatives.

G.3 ENC Communications Supervisor

The ENC Communications Supervisor is responsible for coordinating the dissemination of information from the ENC to company employees, co-owners, industry groups, stockholders, the rumor control operations and Media Information Line.

Duties:

1) Ensure approved ENC News Bulletins and other media releases are distributed to PSEG corporate offices, co-owners, and the industry.

2) Supervise rewriting of News Bulletins and other media information into format for rumor control operations and Muskrat Information Line for employee call-in.

3) Provide information to Media Information Line operators for dissemination to news outlets.

4) Direct activities of the Industry/Government Affairs Coordinator, Media Information Coordinator, Rumor Control Coordinator, and Staff Writer.

G.4 **This designation is not used.**

G.5 Industry/Government Affairs Coordinator (IGAC)

The IGAC is responsible for maintaining contact with industry group representatives, PSEG Government/Federal Affairs Departments, Lower Alloways Creek Township, County and State officials to provide them information about the emergency.

Duties:

1) Advise Co-owner representatives on the status of the emergency.

2) Advise Institute of Nuclear Power Operations (INPO) and Nuclear Energy Institute (NEI) [formerly United States Council on Energy Awareness (USCEA)] on the status of the emergency.

3) Update General Manager-Federal Affairs or designee on emergency status.

4) Update General Manager-State Governmental Affairs on emergency status.

5) Update LAC Township's Liaison about emergency event.

G.6 Rumor Control Coordinator (RCC)

The RCC is responsible for coordinating the media monitoring effort and dissemination of information about the emergency using the Company's Rumor Control Network.

Duties:

1) Activate PSEG's rumor control lines.

2) Provide Media Monitors and Rumor Control Centers with updated News Bulletins and other approved information about the emergency.

G.7A **This designation is not used.**

G.7B Media Monitors

Media Monitors are responsible for reviewing media reports for accuracy and reporting discrepancies and misinformation to the Rumor Control Coordinator.
Duties:

1) Review and record radio and television news programs and bulletins related to the emergency.

2) Inform Rumor Control Coordinator of incorrect or misleading television and radio accounts of the emergency.
3) Clarify incorrect or misleading information with television and radio stations when directed.

G.8 Staff Writer

The staff writer is responsible for composing News Bulletins and other information for the media about plant conditions and emergency response activities.

Duties:

1) Write News Bulletins and prepare other information for the media.

2) Provide News Bulletins to the ENC Communications Supervisor for review and approval.

G.9.A Media Information Coordinator

The Media Information Coordinator is responsible for ensuring the media is provided with timely and accurate information about the emergency.

Duties:

1) Provide Media Information Line Operators with updated News Bulletins and other approved information about the emergency.

2) Update wire services as News Bulletins are issued.

G.9.B Media Information Line Operator

The Media Information Line Operator is responsible for operating Media Information Telephone Bank and ensuring the media is provided with timely and accurate information about the emergency.

Duties:

1) Provide the media with News Bulletins and other approved information.
2) Refer State-related inquiries to appropriate State information sources.

G.10.A Lead Technical Advisor (LTA)

The LTA is responsible for maintaining contact with TSC and EOF to track status of emergency event and provide information to the Company Spokesperson and ENC staff.

Duties:

1) Direct activities of other Technical Advisors at the ENC.

2) Report directly to the Company Spokesperson.

3) Provide technical briefings to the ENC staff and others as directed by the Company Spokesperson.

4) Monitor EOF leads briefings via speaker telephone and update Company Spokesperson on plant and emergency status changes.

G.10.B Media Technical Advisor (MTA)

The MTA is responsible for providing the media with general technical information about Hope Creek and Salem Nuclear Generating Stations and the nuclear industry.

Duties:

1) Obtain News Bulletins and technical details of the emergency.

2) Provide media at ENC with Press Kits and other approved information about the emergency event.

3) Interface with media at ENC on plant-related questions and provide general technical information.

G.10.C Communications Technical Advisor (CTA)

The CTA is responsible for keeping the Staff Writer and other ENC staff informed about the emergency event and providing understandable technical information.

Duties:

1) Obtain current and accurate information about the emergency event.

2) Update the ENC staff on plant status and the emergency event.

3) Report to the TSC if directed to do so by the LTA and provide timely and accurate information about the emergency event to the ENC.

4) When the EOF is activated and the PIL is functioning, report to the ENC and receive further direction from the LTA.

G.11 ENC Operation Supervisor (ENCOS)

The ENCOS is responsible for directing Administrative Operations in the ENC.

Duties:

1) Supervise setup of the ENC and ensure proper operation of equipment.

2) Direct Administrative Support Staff members, Audio-Visual Services Coordinator, Computer Analyst, Security, and facility support functions.

3) Provide facility support functions such as access control, food, first aid, augmented staffing and equipment needs, and relief staffing.

G.12 This EP code no longer in use.

G.13 Public Information Liaison (PIL)

Obtain timely and accurate information at the EOF and transmitting it to the ENC.

Duties:

1) Establish contact with the co-owners and Board of Regulatory Commissioners to inform them of the emergency event and keep them updated on changes in status.

2) Provide timely and accurate information about the emergency event to the ENC.

3) Respond to requests for information from the ENC via the Communications Technical Advisor.

G.14 Public Information Manager (PIM)

The PIM is the on-call staff member of Nuclear Communications who is responsible for representing PSEG as the Company Spokesperson until activation of the ENC. The PIM has the authority to release information provided by the Emergency Coordinator concerning any event at Salem and Hope Creek Nuclear Generating

Stations that may be of interest to the media and the public.

Duties:

1) On-call to receive notifications of emergency and non-emergency events that are of potential interest to the media and the public in accordance with the Event Classification Guides (ECG) from the OS/EDO and other approved sources.

2) Write and issue News Bulletins based on information provided by the Emergency Coordinator and other approved sources.

3) Turnover duties to Company Spokesperson at ENC when the ENC is activated.

9.8 H. **This letter is not used.**

9.9 I. SITE ACCESS CONTROL AND ACCOUNTABILITY

I.1 Security Liaison (TSC)/Security Operations Supervisor Main Guard House (MGH)

The Security Liaison reports to the EDO. The Security Liaison is responsible for coordinating aspects of site evacuation and personnel accountability. The Security Operations Supervisor work for the Security Liaison and coordinate site evacuation and personnel accountability activities at the MGH.

Duties:

1) Verify accountability is established.

2) Assist in the coordination and control of site evacuation.
3) Maintain personnel entry log at the TSC.

4) Provide emergency vehicle support.

I.2 Security Liaison (EOF)

The Security Liaison (EOF) reports to the SSM. The Security Liaison is responsible for coordinating aspects of security at the EOF/ENC and coordinating support for onsite security.

Duties:

1) Maintain communication with onsite security organization.

2) Coordinate control of EOF access.

3) Provide security related information to the SSM.

4) Coordinate emergency vehicle support.

I.3 Emergency Preparedness Advisor/EOF (EPA/EOF)

The EPA at the EOF reports to the SSM. The EPA assists in conducting emergency notifications and is responsible for assisting in the set-up and activation of the EOF.

Duties:

1) Provide assistance to SSM as requested.

2) Coordinate/Supervise notifications for changes in classification or PARs.

3) Assist in setup of EOF.

4) Advise EOF staff on state EOC operations and provide assistance in executing their duties.

I.4 Security Force Member

Security Force Members report to the Site Support Manager. Security Force Members are responsible for the proper establishment and maintenance of access control.

Duties:

1) Maintain access control at the EOF.

2) Assist in personnel accountability.

3) Open the EOF.

I.5 Site Support Staff - OPS

Advise the SSM on the operational condition of the affected unit and make emergency notifications in accordance with the ECG.

I.5A Site Support Staff - OPS Advisor

Obtain operational data and advise the SSM on the operational condition of the affected unit.

9.10 J. ADMINISTRATIVE SUPPORT

J.1 Administrative Support Manager (ASM)

The ASM reports to the ERM, and provides administrative support for the emergency response effort.

Duties:

1) Provides general office support functions including typing, reproduction, office supplies, and office furniture.

2) Functions as the EOF purchasing agent.

3) Administers the petty cash fund and expense accounts.

4) Coordinates personnel and equipment requests from the ERM and the other support managers.

5) Performs Administrative Support Organization callout.

J.02A Admin Support Staff - Personnel Supv.
J.02B Admin Support Staff - Purchasing
J.02C Admin Support Staff - Material Control
J.02D Admin Support Staff - Administrative
J.02E Admin Support Staff - Information Technology Support Supervisor.

Coordinate Administrative Support activities as identified by the designated discipline and advise ASM of your activities.
Duties:

1) Provide support related to personnel matters including personnel callouts.

2) Provide purchasing support required during an emergency.

3) Provide material control support during an emergency.

4) Provide administrative/clerical support.

5) Provide Information Technology support.

6) Assist in EOF setup and activation.

J.03 Administrative Support Supervisor (ADMSS)

The ADMSS is responsible for providing administrative support to the EDO and has the authority to arrange for procurement of the necessary materials or personnel.

Duties:

1) Supervise administrative functions in the TSC.

2) Coordinates activities with the ASM.

3) Maintains records of purchases.

J.04 TSC Administrative Staff*

The TSC Administrative staff reports to the ADMSS and provides administrative support to the TSC/OSC.

J.04A TSC Administrative Support - TDR

The TSC Admin Support - TDR position reports directly to the ADMSS.

Duties:

1) Provide administrative Support to the TSC/OSC as directed.

2) Provide assistance in obtaining information from the Technical Document Room (TDR).

J.05 ENC Administrative Support*

The ENC Administrative Support staff reports to the ENC Operations Supervisor and provides administrative support to the ENC staff.

J.06 Audio/Visual Services Coordinator*

Provide audio/visual support to the ENC staff.

Duties:

1) Videotape media briefings.

2) Create/provide visual aids as requested by the ENC staff.

10.0 Staffing Commitments

The commitment for minimum staffing will be in accordance with Supplement 1 to NUREG-0737, Table 2.

Table 3-2 provides a correlation between major functional areas, major tasks, position title or expertise, as described in Table 2 of Supplement 1, NUREG-0737, and the similar tasks and titles in the emergency response organization. The alphanumeric codes which appear with staffing capability goals represent the emergency response organization positions used in this section of the plan. Facility activation goals/response times are described in Section 9, Emergency Facilities and Equipment.

Table 3-1

LINE OF SUCCESSION
EMERGENCY COORDINATOR DUTIES

Duty Position	Personnel Assigned Duty Position	Classification Requiring Activation of Emergency Coordinator Function			
		UE	A	SAE	GE
OS	OS is a normal shift duty assignment per station tech spec	X	X	X	X
EDO	Station General Mgr Station Department Mgr	X[1]	X	X	X
ERM	Filled by Nuclear Department Senior Management Personnel		X[2]	X	X

NOTES:

1. The EDO is contacted for all events classified as an Unusual Event or higher. The EDO may or may not respond to the Emergency Coordinator function of this level event. This response would be based on the conditions of the incident.

2. The ERM is contacted for all events classified as an Alert or higher. The ERM may or may not respond to the Emergency Coordinator function of this level event. This response would be based on the conditions of the incident.

TABLE 3-2

PSEG NUCLEAR
CORRELATION TO SUPPLEMENT 1 OF NUREG-0737M TABLE 2
(NUREG-0654, TABLE B-1)

Major Functional Area	Major Tasks	Position Title or Expertise	On* Shift	Capability for Additions 30 min (Note 1) 60 min (Note 2)
Plant Operations and Assessment of Operational Aspects		Operations Superintendent (OS) (SRO)	1 A4	
		Control Room Supervisor (CRS) (SRO)	1 B2	
		Reactor/Plant Operator (R/PO)	2 B3	
		Nuclear Equipment Operator (NEO)	2 B5 (Note 8)	
Emergency Direction and Control (Emergency Coordinator		Operations Superintendent (OS)(SRO)	1**A4	
Notification/ Communication	Notify Licensee, State, Local and Federal personnel and maintain communication		1 B4B	1B4 2F8
Radiological Accident Assessment and Support of Operational Accident Assessment	Near-site EOF-Manager	Emergency Response Manager (ERM)***		1 A1
	Offsite Dose Assessment	Shift RP Tech (SRPT)/RP Supervisor-Offsite		1 E4 (Note 3)
	Offsite Surveys	Technician (RPT)		2 D4(E3/E6) (Note 9) 2 D4
	Onsite (out-of-plant)	Technician (RPT)		1 E3/E6 (Note 5) 1 E2 (Unaffected Unit RP Supv.-Offsite)
	In-plant Surveys	Technician (RPT)	1 E3 (Note 5)	1 E3 (Note 5) 1 E1 (Unaffected RAC)
	Chem/Radio-chemistry	Technician (CT)	1 E6	1 E5 (Unaffected Unit Chem CP/TSC Sup.)

TABLE 3-2 (cont.)

PSEG NUCLEAR
CORRELATION TO SUPPLEMENT 1 OF NUREG-0737M TABLE 2
(NUREG-0654, TABLE B-1)

Major Functional Area	Major Tasks	Position Title or Expertise	On* Shift	Capability for Additions 30 min (Note 1)	60 min (Note 2)
Plant System Engineering, Repair and Corrective Actions	Technical Support	Nuclear Shift Technical Advisor (NSTA)	1 B1 (Note 6)	1F6 (Note 4)	
		Core/Thermal Hydraulics			1 F6A
	Repair and Corrective Actions	Electrical			1 F3
		Mechanical			1 F4
		Mechanical Maintenance/	1**C5 (Note 8)		1 C4
		Rad Waste Operation			1 C5
		Electrical Maintenance/	1**C3	1 C3	1 C5
		Instrument and Control		1C2	
Protective Actions (In-plant)	Radiation Protection a. Access Control b. HP Coverage for repair, corrective actions, search and rescue, first aid, and fire fighting. c. Personnel monitoring d. Dosimetry	Technician (RPT)	2**E3 (Note 5)	2 (Note 7) (Unaffected Unit Rad. Pro. Exposure Control)	2 E2
Fire Fighting			Fire Brigade per Tech. Spec. C6		Local Support

TABLE 3-2 (cont.)

PSEG NUCLEAR
CORRELATION TO SUPPLEMENT 1 OF NUREG-0737M TABLE 2
(NUREG-0654, TABLE B-1)

Major Functional Area	Major Tasks	Position Title or Expertise	On* Shift	Capability for Additions 30 min (Note 1)	60 min (Note 2)
Rescue Operations and First Aid			2**(C6)		Local Support
Site Access Control and Personnel Accountability	Security, Fire Fighting, Communications, Personnel Accountability	Security Personnel	All per Security Plan		Local and State Support
		Total	10	10	16

Notes:

* For each unaffected nuclear unit in operation, maintain at least one Control Room Supervisor, one Reactor/Plant Operator and one Equipment Operator.

** May be provided by Shift personnel assigned other functions.

*** Overall directions of facility response to be assumed by near-site EOF Emergency Response Manager when all centers are fully manned.

Note 1: All 30 minute responder positions are covered by onshift personnel. There is not a 30 minute callout process.

Note 2: Staffing times for these positions are not necessarily implied under Additional Capability. This chart provides a table which easily correlates the emergency response organization to the position guidance of Table 2, NUREG-0737, Supplement 1. Staffing response times are as discussed in Section 9 of the Emergency Plan.

Note 3: Will be performed by the Shift Radiation Protection Technician (E4) until relieved by the Radiation Protection Supervisor - Offsite.

Note 4: Advisory function will be performed by Nuclear Shift Technical Advisor (NSTA) until relieved by Core Thermal Hydraulics Engineer.

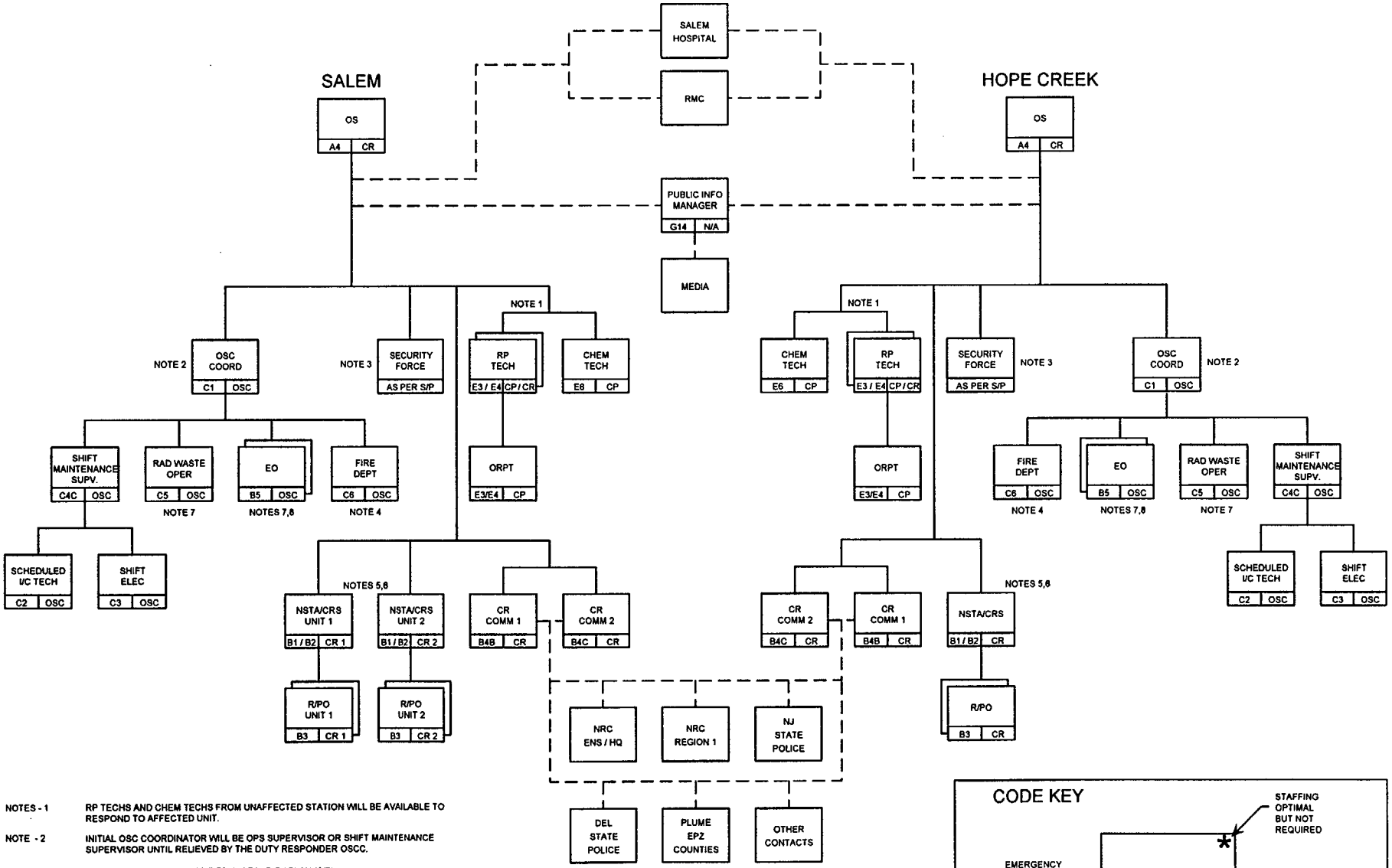
Note 5: Additional radiation protection/chemistry personnel available from the unaffected station to support inplant activities.

Note 6: NSTA can also be assigned the duties of the Control Room Supervisor, in accordance with technical specification provisions.

Note 7: Individuals who are self-monitor qualified may fulfill this position.

Note 8: An onshift Equipment Operator (Salem) or Rad Waste Operator (Hope Creek) may concurrently fill the Mechanical Maintenance/Rad Waste Operator position until relieved by additional capability.

Note 9: Until the offsite field monitoring team members report to the EOF, offsite surveys may be performed by the onsite field monitoring team, if needed based on projected or actual location of the plume.



NOTES - 1 RP TECHS AND CHEM TECHS FROM UNAFFECTED STATION WILL BE AVAILABLE TO RESPOND TO AFFECTED UNIT.

NOTE - 2 INITIAL OSC COORDINATOR WILL BE OPS SUPERVISOR OR SHIFT MAINTENANCE SUPERVISOR UNTIL RELIEVED BY THE DUTY RESPONDER OSCC.

NOTE - 3 SECURITY FORCE AS SPECIFIED IN SECURITY PLAN (S/P).

NOTE - 4 FIRE DEPARTMENT AS SPECIFIED IN TECH SPECS.

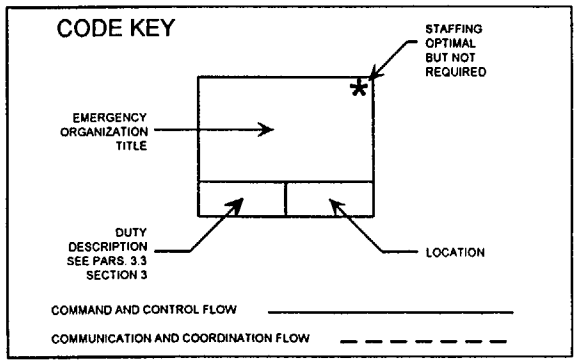
NOTE - 5 AT LEAST ONE CRS WILL BE STA QUALIFIED.

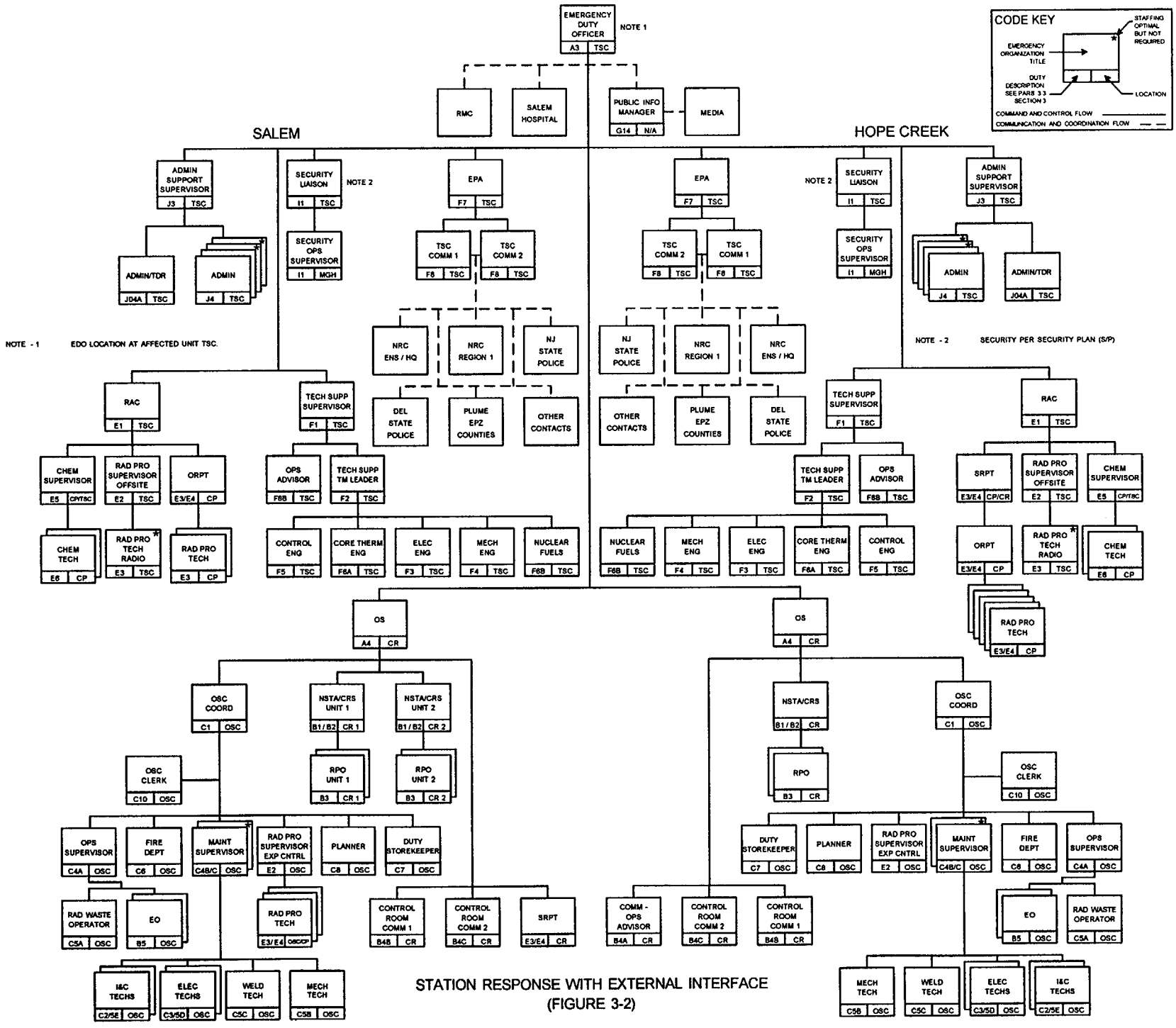
NOTE - 6 NSTA / CRS CAN BE THE SAME INDIVIDUAL. AS STAFFED IAW TECH SPECS / 10 CFR 50.55.

NOTE - 7 INITIAL RADWASTE OPERATOR MAY BE ONE EO OF THE TWO ASSIGNED TO THE OSC UNTIL RELIEVED BY OSC AUGMENTATION STAFF.

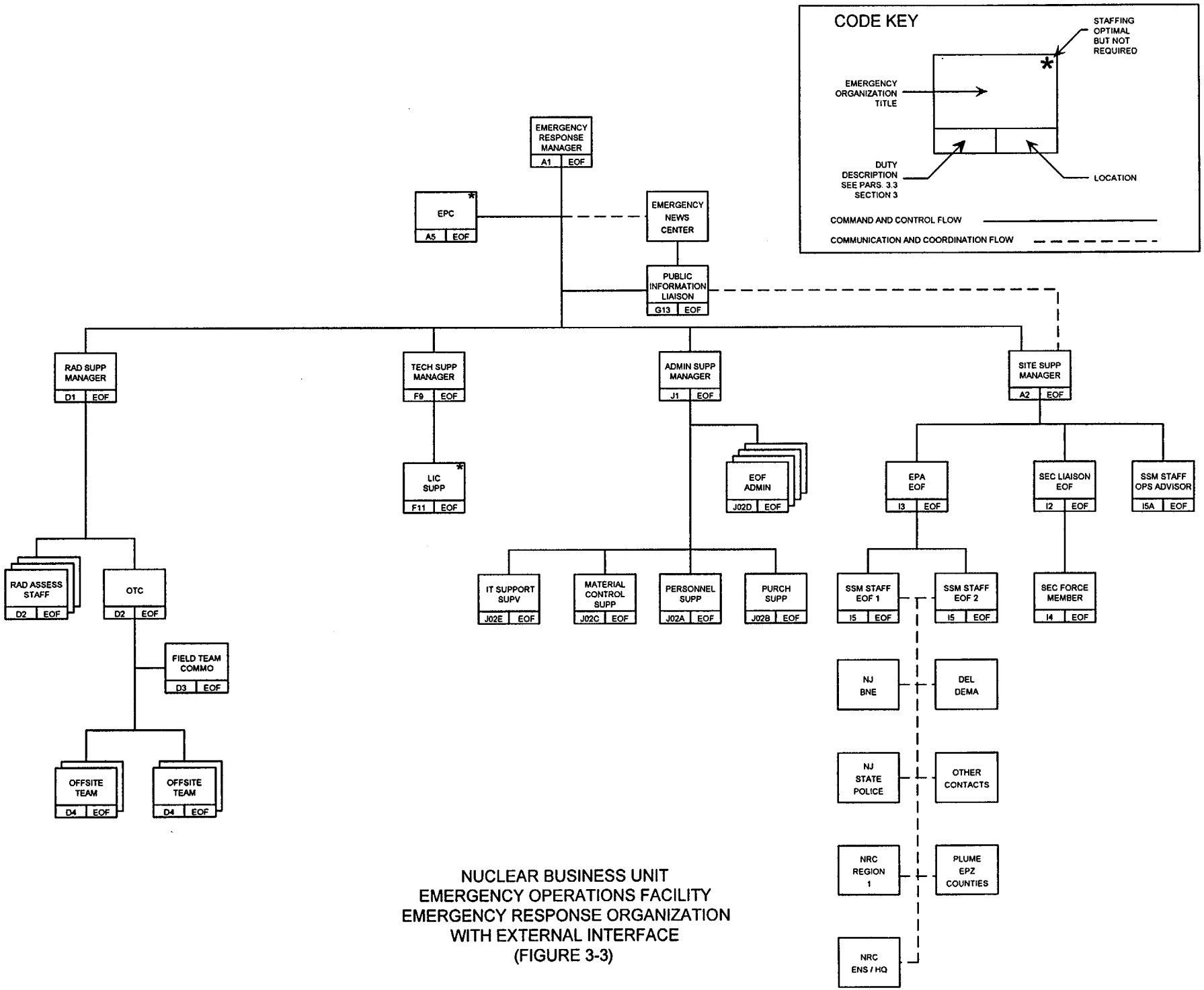
NOTE - 8 EO ASSIGNED TO OSC CANNOT CONCURRENTLY BE ASSIGNED AS CONTROL ROOM COMMUNICATOR.

NUCLEAR BUSINESS UNIT
ON SHIFT STAFFING
EMERGENCY
RESPONSE
ORGANIZATION
(FIGURE 3-1)

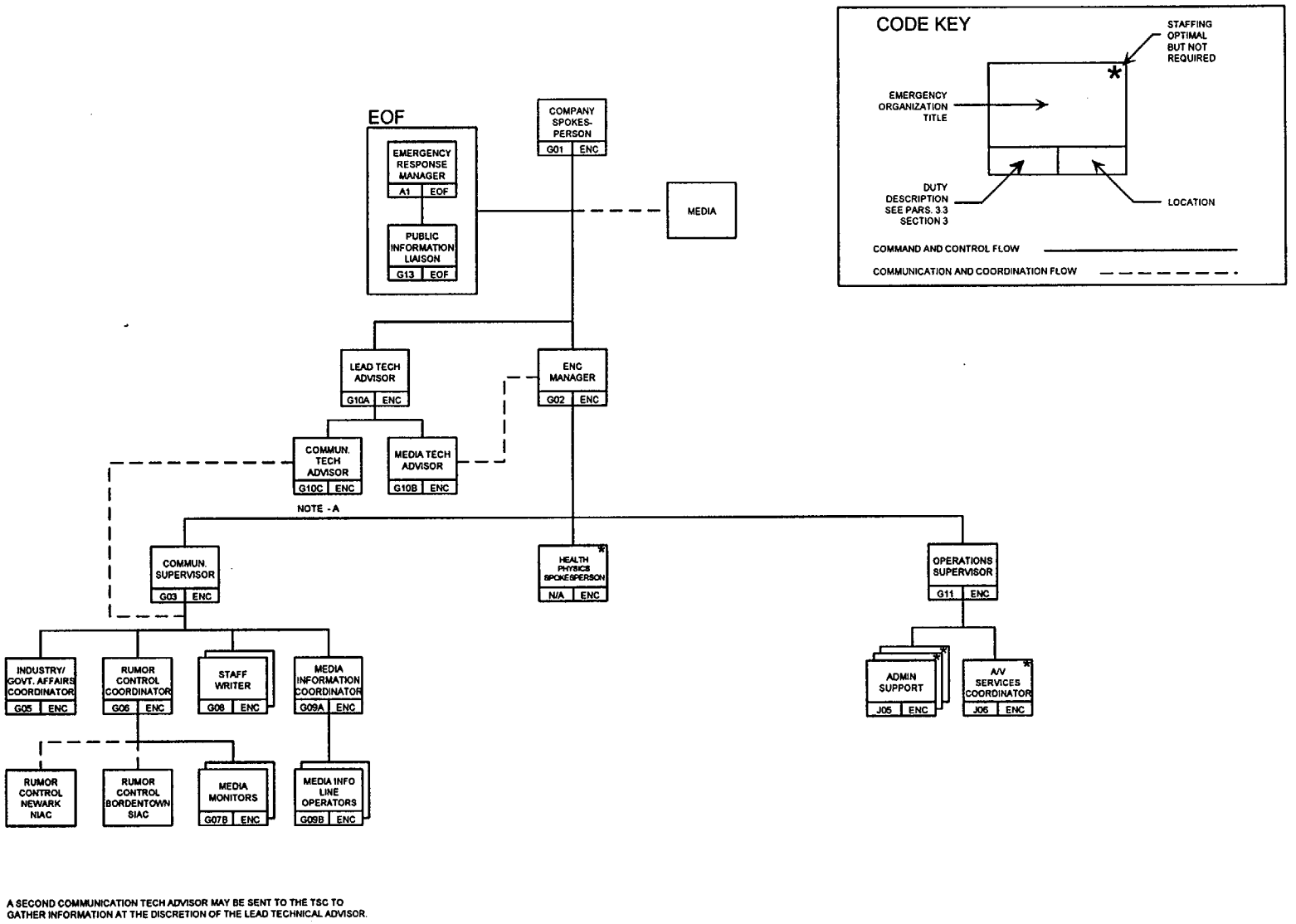




STATION RESPONSE WITH EXTERNAL INTERFACE
(FIGURE 3-2)



NUCLEAR BUSINESS UNIT
EMERGENCY OPERATIONS FACILITY
EMERGENCY RESPONSE ORGANIZATION
WITH EXTERNAL INTERFACE
(FIGURE 3-3)



NOTE - A A SECOND COMMUNICATION TECH ADVISOR MAY BE SENT TO THE TSC TO GATHER INFORMATION AT THE DISCRETION OF THE LEAD TECHNICAL ADVISOR.

NUCLEAR BUSINESS UNIT
EMERGENCY NEWS CENTER ORGANIZATION
WITH EXTERNAL INTERFACE
(FIGURE 3-4)

SECTION 3

SIGNATURE PAGE

Prepared By: Mark J. Azzaro — 03/09/2000
(If Editorial Revisions Only, Last Approved Revision) — Date

Reviewed By: Raymond Reece (R. Reece) — 03/14/2000
Station Qualified Reviewer — Date

Reviewed By: [signature] — 03/14/2000
Department Manager — Date

Reviewed By: [signature] — 03/14/2000
Manager-CA, EP, & IT — Date

Reviewed By: [signature] — 5/17/00
Manager - Quality Assessment — Date
(If Applicable)

SORC Review and Station Approvals

N/A — N/A — N/A — N/A
Mtg. No. — Salem Chairman — Mtg. No. — Hope Creek Chairman

N/A — Date
N/A — Date

[signature] — 5/24/00
Vice President – Operations — Date

Effective Date of this Revision 5-31-2000
Date

SECTION 8

PUBLIC INFORMATION

1.0 Public Awareness

The public information program consists of general information on the topics of nuclear energy, radiation, and emergency planning. Additionally, specific information on protective response is provided as an information insert in appropriate local publications at least annually.

1.1 General Information - Program Content

The information on each general topic consists of material on the following:

1.2 Nuclear Energy

a. Definition of energy in general terms.
b. How nuclear energy produces electricity.
c. Safeguards designed into nuclear power plants.
d. Comparisons with other energy sources.
e. Definitions of basic nuclear terminology.

1.3 Radiation

a. Radiation sources in the environment.
b. Safeguards designed into nuclear power plants to prevent or minimize the release of radiation to the environment.
c. Definitions of basic radiation terminology.

1.4 Emergency Planning

a. Description of the public response options of sheltering or evacuation.
b. Evacuation methods, routes and relocation centers.
c. Methods of notification.
d. Special consideration for the handicapped.
e. Special considerations for farms and agricultural concerns.

This information is provided in various forms (pamphlets, advertisements, or other means) either individually or as a set such that the general topic areas are covered annually.

1.5 Protective Response - Program Content

The program for protective response information is more specific in nature and contains material on the following:

1) Protective response options (sheltering and evacuation).
2) Evacuation methods, routes and relocation centers.
3) Methods of alerting and notification.

This information is provided in appropriate formats to the transient and permanent resident of the Plume Exposure Emergency Planning Zone (EPZ). Pamphlets, advertisements in locally distributed newspapers, or telephone books, placards, or postings at recreational facilities may be used, as appropriate, to maintain transient information. Annually, selected information is either updated and redistributed or verified to be in place at appropriate locations.

2.0 Public Information During an Emergency

Until activation of the EOF normal public information planning (incorporating both non-emergency events and emergency events as a plan basis) will be used. This system will be activated by the Corporate Communications Representative by calling the appropriate contact in the Public Affairs Department and appropriate media representatives.

Upon activation of the ENC, all information (press releases) formally released to the media is approved by the Company Spokesperson or ENC Manager in accordance with the agreements on media releases between the utility and the states.

The Public Information Liaison, located in the EOF, will ensure that the necessary information is provided to the ENC by the emergency response organization. A timely exchange of information is ensured among the designated spokespersons for the Utility and representatives of the States of New Jersey and Delaware by systematically recording the receipt of new press releases.

3.0 Media Awareness

An information program for media and the general public is provided to present the information outlined in paragraph 1.1. This program is offered at least annually and all appropriate local news media representatives are invited to attend. This program may take place as a part of the annual exercise.

4.0 Rumor Control

Rumor control is provided to minimize the possibility that a source of public information (e.g., NRC, FEMA, State or utility) could be using out-of-date Utility information. This is accomplished by providing Utility information to other public information sources simultaneously and providing Public Information Officers with access to the Utility public information source. Additionally, telephone access numbers are listed in the annual public information brochure to allow access to quickly confirm or deny the accuracy of a given report or rumor.

SECTION 8

SIGNATURE PAGE

Prepared By: W.A. Wackstein, Rev 1 — 3/15/00
(If Editorial Revisions Only, Last Approved Revision) — Date

Reviewed By: N/A — _____
Station Qualified Reviewer — Date

Reviewed By: N/A — _____
Department Manager — Date

Reviewed By: Greg W Barnes — 3/24/00
Manager-EP & IT — Date

Reviewed By: N/A — _____
Manager - Quality Assessment — Date
(If Applicable)

SORC Review and Station Approvals

_____ N/A _____ N/A
Mtg. No. Salem Chairman Mtg. No. Hope Creek Chairman

_____ _____
Date Date

N/A — _____
Vice President – Operations Date

Effective Date of this Revision 5-31-2000
Date

1.0 PSEG Nuclear's Medical Services Department

1.1 Normal Operations

The Medical Services Department provides the utility initial employment physical examinations and coordinates the regular examinations of utility radiation workers.

1.2 Emergency Medical Support

The Memorial Hospital of Salem County will provide emergency medical support.

1.3 Memorial Hospital of Salem County

Memorial Hospital of Salem County has agreed to accept contaminated patients for emergency medical and surgical treatment on a 24-hour basis per day, and for subsequent observation and/or treatment if the capabilities of the hospital allow such subsequent care. A letter of agreement with Memorial Hospital of Salem County is provided in Attachment 2-1. In order to handle contaminated patients safely, without disrupting other hospital operations, Memorial Hospital of Salem County has a designated Radiation Emergency Area (REA). Procedures for implementing the hospital's radiation emergency plan have been prepared and are known to the hospital personnel responsible for handling the treatment of radiological accident victims.

The hospital's radiation emergency plan is activated by a member of the plant Operations Department notifying the hospital that a contaminated patient may or will be transferred to the hospital.

All communications with the hospital concerning the possible or actual referral of a patient from the plant to the hospital are directed to the Emergency Department Triage Nurse (EDTN) or alternate.

The EDTN notifies the other key personnel involved in the implementation of the hospital's radiation emergency procedures. Equipment and supplies are maintained at Memorial Hospital of Salem County.

Maintenance of the hospital radiation emergency plan and the equipment required to support the plan is performed by PSEG Nuclear. Radiological survey equipment as well as all other equipment is inventoried annually by PSEG Nuclear. Calibration of the radiological survey equipment is performed by PSEG Nuclear as required by the appropriate technical guidance for the specific equipment.

The Memorial Hospital of Salem County is located near Salem, New Jersey as indicated on Figure 4-1. All station and local ambulance drivers and support personnel will be familiar with directions to the hospital.

1.4 Backup Medical Support

An Emergency Medical Assistance Program is in effect with REAC/TS. The program provides for backup medical treatment of radioactively contaminated patients.

2.0 Onsite Medical Support

The company ambulance provides the equipment and capability to safely transport injured and/or contaminated personnel to Memorial Hospital of Salem County. This ambulance is operated by members of the Fire Brigade who provide first aid during transit. A member of the station's radiation protection staff accompanies the patient to provide health physics coverage if required. A description of the ambulance and its equipment is provided in Section 9.0 of this Plan.

3.0 Offsite Medical Support

Local ambulance squads provide secondary first aid and transportation support to the site. As indicated in the New Jersey Radiological Emergency Response Plans for Salem County and its municipalities, the Salem County Office of Emergency Services is responsible for the overall coordination of emergency medical units. A letter of agreement between PSE&G and the Salem County Office of Emergency Services, provided in Attachment 2, ensures that this coordination is maintained for the emergency medical support required by PSEG Nuclear.

4.0 Coordinated Communication

The primary communications link between the onsite and offsite organizations responsible for medical support is provided by commercial telephone. The telephone numbers are listed in the Emergency Telephone List. Individual organizations maintain communications with mobile medical facilities (ambulances, etc.) operating under their direction. Communications directing or requesting mobile medical facilities are made to the organization responsible for the mobile medical facility requested.

SECTION 13

SIGNATURE PAGE

Prepared By: William Wackstein, Rev 8 — 3/15/00
(If Editorial Revisions Only, Last Approved Revision) — Date

Reviewed By: NA — _____
Station Qualified Reviewer — Date

Reviewed By: NA — _____
Department Manager — Date

Reviewed By: Gray W Bannon — 3/24/00
Manager-EP & IT — Date

Reviewed By: N/A — _____
Manager - Quality Assessment (If Applicable) — Date

SORC Review and Station Approvals

_____ N/A _____ _____ N/A _____
Mtg. No. Salem Chairman Mtg. No. Hope Creek Chairman

_____ _____
Date Date

N/A _____
Vice President – Operations Date _____

Effective Date of this Revision 5-31-2000
Date

SECTION 16

RADIOLOGICAL EMERGENCY RESPONSE TRAINING

Emergency response training is a shared responsibility between Site Access Training and the Emergency Preparedness Group. Emergency Response training is divided into two major categories: (1) training for non-essential personnel, and (2) training for personnel assigned to emergency response positions.

1.0 General Employee Training Program

All PSEG Nuclear personnel badged for unescorted access to the Protected Area receive a basic emergency plan overview course. This course is presented as part of the General Employee Training (GET) program.

Site Access Training Lesson Plans established by approval of the Director - Quality/Nuclear Training/Emergency Preparedness, or designee, and reviewed by the Manager - Emergency Preparedness and Instructional Technology, govern the objectives and format of the GET Emergency Plan Training.

GET (or Radiation Worker Qualification which includes GET) is required to be verified annually for unescorted access to the Protected Area.

1.1 Training of Assigned Emergency Response Personnel

All personnel assigned to emergency response positions are to receive annual Emergency Preparedness Training, as shown in Table 16-1. The Emergency Preparedness Group has the primary responsibility for providing Emergency Preparedness Training. The Emergency Preparedness Group is also responsible for conducting drills and exercises. The content of the established Emergency Preparedness Training modules is set forth in Table 16-2.

Emergency Plan Implementing Procedure 1014 governs the objectives and format of this training.

1.1.1 Classroom Instruction

Classroom instruction requirements are assigned on the basis of emergency response assignment duties. The codes for and description of these assignments are in subsection 3.3 of the Emergency Plan.

All lesson plans for classroom training will be approved by the Emergency Preparedness Supervisor, or designee, except for General Employee Training (GET), Radiation Worker Training (RWT) and Radiation Worker Review (RWR) which are approved by the Director - Quality/Nuclear Training/Emergency Preparedness or designee.

1.1.2 Emergency Plan Drills

Emergency Plan Drills are used as tools to practice the response skills learned in classroom training and exercise the interface between PSEG Nuclear and offsite agencies. All drills and exercises will be conducted in accordance with Section 15 of the Emergency Plan.

1.1.3 Deficiency Correction

If deficiencies are identified during drills, the following corrective measures will be taken:

1) Individual Deficiencies - on-the-spot correction by a qualified drill COACH/CONTROLLER.
2) Training Program deficiencies and other deficiencies identified in critiques are tracked per the Corrective Action Program.
3) SORC reviews and approves the NRC Evaluated (Graded) Exercise and the Manager EP & IT or designee reviews and approves all drill/exercise critique reports

2.0 Program Administration

The Emergency Preparedness Group is responsible for administering the Emergency Plan training program. All records are submitted to be archived.

3.0 Offsite Support Training

Training is provided for the fire and rescue squads of Lower Alloways Creek and Salem City in the event that they are needed onsite to supplement station manpower. Course material includes the notification procedure, the station response procedures, and radiation protection techniques. Offsite fire and rescue squad personnel are trained and qualified in courses equivalent or superior to the Red Cross Multi-Media course. Training is provided to all offsite medical personnel who may be called upon in an emergency to supplement site medical personnel. All other training and retraining given to offsite, state and municipal emergency response personnel will be provided in accordance with the appropriate state, county and municipal emergency response plans.

4.0 Training of Emergency Preparedness Staff

Periodic training is provided to the Emergency Preparedness staff. Staff members are assigned to attend at least one training program or seminar annually. Attendance is assigned on the basis of the individual responsibilities of staff members.

5.0 Emergency Plan Information for Untrained Personnel

All individuals entering the Protected Area, who are not badged for unescorted access, will be provided with an information sheet or brochure that outlines basic emergency procedures. This information, consistent with the Emergency Plan, is provided by the Security Department.

TABLE 16-1

PSEG NUCLEAR

EMERGENCY PLAN TRAINING MATRIX

COURSE[2] _____

CODE[1]	MGMT	OPS LIC	RP ON	CHEM ON	RP EOF	RP DOSE	RP MON	TECH DUTY	OSC	OSC SUPV	COMM	ENC	SECR	ADMIN
A1	X													
A2	X													
A3	X													
A4		X												
A5	X													
B1		X												
B2		X												
B3		X												
B4											X			
B4A											X			
B5									X					
C1										X				
C2									X					
C3									X					
C4										X				
C5									X					
C6									X					
C7									X					
C8									X					
C10														X
D1	X					X								
D2					X	X								
D3					X									
D4							*X							
E1	X					X								
E2			X			X								

*MAINTAIN QUALIFICATION AS RADIATION WORKERS (RWR)

TABLE 16-1 (cont.)
PSEG NUCLEAR
EMERGENCY PLAN TRAINING MATRIX
COURSE[2] _____

CODE[1]	MGMT	OPS LIC	RP ON	CHEM ON	RP EOF	RP DOSE	RP MON	TECH DUTY	OSC	OSC SUPV	COMM	ENC	SECR	ADMIN
E3			X											
E4			X			X								
E5				X										
E6				*										
E7			X											
F1	X													
F2								X						
F3								X						
F4								X						
F5								X						
F6								X						
F7											X			
F8											X			
F8B											X			
F9								X						
F11								X						
G1												X		
G2												X		
G3												X		
G5												X		
G6												X		
G7B												X		
G8												X		

* Note - routine system and PASS sampling training is provided as job qualification training for Chemistry Technicians.

TABLE 16-1 (cont.)
PSEG NUCLEAR
EMERGENCY PLAN TRAINING MATRIX
COURSE[2] _____

CODE[1]	MGMT	OPS LIC	RP ON	CHEM ON	RP EOF	RP DOSE	RP MON	TECH DUTY	OSC	OSC SUPV	COMM	ENC	SECR	ADMIN
G9												X		
G10												X		
G11												X		
G13												X		
G14												X		
I1													X	
I2													X	
I3											X			
I4													X	
I5											X			
I5A											X			
J1														X
J2														X
J3														X
J4														X
J5												X		
J6														X

Notes: (1) Code refers to position description numbers as numbered in Section 3.3 of this Emergency Plan.
(2) Key to course titles

MGMT	=	Management
OPS LIC	=	Operations (Licensed)
RP ON	=	Radiation Protection Onsite Duties
CHEM ON	=	Chemistry Onsite Duties
RP EOF	=	Radiation Protection Emergency Operations Facilities
EP Dose	=	Radiation Protection Dose Assessment
RP MON	=	Radiation Protection Offsite Monitoring
TECH DUTY	=	Engineering Technical Duties (TSC or EOF)
OSC/OSC SUPV	=	Operations Support Center Duties
COMM	=	Communications
ENC	=	Emergency News Center Operations and Personnel Duties
SECR	-	Security Training - SFMs/Supervisors
ADMIN	=	Administrative Support Duties
RWR	=	Radiation Worker Qualification

All employees, including contract personnel, who work in the Protected Area are required to complete General Employee Training (GET) which includes Emergency Plan Overview

TABLE 16-2

EMERGENCY PREPAREDNESS COURSE CONTENT DESCRIPTION

Course Name

EMERGENCY PREPAREDNESS MANAGEMENT

- Emergency Plan Overview
- Event Classification Guide
- Emergency Plan Implementing Procedure
- Core Damage

LICENSED OPS EP RESPONSE

- Emergency Plan Overview
- Event Classification Guide
- Emergency Plan Implementing Procedures

ONSITE RAD PRO DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

EOF RAD PRO DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

DOSE ASSESSMENT

- Emergency Plan Implementing Procedures

OFFSITE MONITORING

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

TABLE 16-2

EMERGENCY PREPAREDNESS COURSE CONTENT DESCRIPTION (CONT.)

Course Name

COMMUNICATIONS

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

EMERGENCY PREPAREDNESS OVERVIEW (GENERAL EMP. TRNG.)

- Emergency Plan Overview

ONSITE CHEMISTRY DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

OSC DUTIES

- Emergency Plan Overview*
- Emergency Plan Implementing Procedures

EMERGENCY NEWS CENTER OPS (ENC DUTIES)

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

SECURITY DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

* covered in General Employee Training

TABLE 16-2

EMERGENCY PREPAREDNESS COURSE CONTENT DESCRIPTION (CONT.)

Course Name

SECURITY SUPERVISOR DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

OSC SUPERVISOR DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

ADMINISTRATIVE SUPPORT DUTIES

- Emergency Plan Overview
- Emergency Plan Implementing Procedures

TECHNICAL SUPPORT DUTIES (EOF OR TSC)

- Emergency Plan Overview
- Emergency Plan Implementing Procedures
- Abnormal and Emergency Operating Procedures Overview (TSC only)
- Core Damage

SECTION 16

SIGNATURE PAGE

Prepared By: THOMAS KIESSLING 03/21/2000
(If Editorial Revisions Only, Last Approved Revision) Date

Reviewed By: R. Reece (R. REECE) 03/24/2000
Station Qualified Reviewer Date

Reviewed By: Craig W. Banner 3/24/00
Department Manager Date

Reviewed By: Craig W. Banner 3/24/00
Manager - EP & IT Date

Reviewed By: 5/17/00
Manager - Quality Assessment Date
(If Applicable)

SORC Review and Station Approvals

N/A N/A N/A N/A
Mtg. No. Salem Chairman Mtg. No. Hope Creek Chairman

N/A N/A
Date Date

Vice President - Operations 5/24/00
Date

Effective Date of this Revision 5-31-2000
Date

SECTION 17
EMERGENCY PLAN ADMINISTRATION

PSE&G CONTROL COPY # EPIP059

1.0 Responsibility

1.1 General

The Chief Nuclear Officer & President - PSEG Nuclear has the overall responsibility for the development and updating of emergency planning and coordination of the plans with other response organizations. The organization for coordination and direction of emergency planning matters is shown in Figure 17-1.

The Manager - Emergency Preparedness and Instructional Technology (Manager - EP & IT) has been delegated the authority to approve the Emergency Plan and Implementing Procedures for adequacy and consistency. He/She is assigned the responsibility for ensuring that the Emergency Plan and Implementing Procedures are appropriately interfaced with the plans, procedures, and training of offsite support agencies as required to maintain suitable timely notifications and development of protective action recommendations.

1.2 Review and Approval of Emergency Preparedness Documents

As appropriate, the applicable Station Operations Review Committee (SORC) reviews emergency plans and procedures as they relate to nuclear safety. The Vice President of Station Operations approves plans and procedures in accordance with Technical Specifications. The review and approval of the Emergency Plan, Implementing Procedures, Event Classification Guide, and Emergency Preparedness Administrative Procedures will be done in accordance with Table 17-1. **(EP96-004)**

1.3 Training Procedures/Lesson Plans

It is the responsibility of the Manager - Emergency Preparedness and Instructional Technology, or designee, to review and revise the Training Procedures/Lesson Plans in accordance with the Nuclear Emergency Preparedness Training Program. The Training Procedures/Lesson Plans are based on the approved Emergency Plan and Procedures.

2.0 Revisions

Revisions to the Emergency Plan, and Emergency Plan Implementing Procedures are made whenever such changes are necessary to ensure that the Emergency Plan can be implemented. The details are contained in the Emergency Preparedness Administrative Procedures.

Any holder of the Emergency Plan, and/or Emergency Plan Implementing Procedures may prepare revision(s) to any section or procedure. Under normal circumstances, implementing procedure changes are coordinated by the department head responsible (Table 17-1) for the given procedure.

A revision request is initiated by the person requesting the revision in accordance with appropriate PSEG Nuclear procedures.

A list of each section or procedure is maintained in front of the Emergency Plan and Emergency Plan Implementing Procedures indicating the latest revision number and effective date.

3.0 Distribution

All revisions are distributed in accordance with current PSEG Nuclear procedures.

4.0 Automatic Review

The Emergency Plan and associated documents are reviewed at least once each year. As part of the review, the Event Classification Guide is reviewed with the state and local governments. The Emergency Plan and associated documents are updated and procedures are improved, based upon training exercises/drills, and changes onsite or in the environs.

Agreement letters from offsite agencies and local support groups are verified or updated biennially or when changes/revisions to the Plan are implemented which could affect their responsibilities. Updating of telephone numbers is done quarterly. The Manager - Emergency Preparedness and Instructional Technology, or designee, coordinates this review.

5.0 Independent Review

The Emergency Plan and associated documents receive an independent review, at least once per 24 months in accordance with current requirements.

Management directives provide instructions for evaluation and correction of audit findings, training, readiness testing, and emergency equipment. The results of the review and actions taken are forwarded to PSEG Nuclear senior management. The records of these reviews are retained for five (5) years **(EP96-004)**.

6.0 Maintenance of Documents

The persons holding controlled copies of the Emergency Plan and associated documents are responsible for their maintenance, which consists of promptly incorporating all revisions and additions and replacing any lost or damaged portions. Replacements for any pages are supplied upon request.

Each such distribution shall be accompanied by instructions for insertion into the document indicating which pages are to be replaced, deleted or added. The distribution shall be mailed to copyholders in accordance with current PSEG Nuclear procedural requirements. A file of master copies of each revision of the plan is retained either by EP, or on PSEG Nuclear approved media.

7.0 References

7.1 **EP96-004**, Remove reference to Tech Specs and add clarification to Review and Approval of Emergency Plan Documents matrix.

TABLE 17-1
*** REVIEW AND APPROVAL OF EMERGENCY PLAN DOCUMENTS**

Document	SQR	Resp Mgr	EPM	Mgr QA	SORC	VP Ops
Emer Plan - All Sections	YES	EPM	YES	Yes	As required	Yes
SGS ECG	YES	Ops Manager - Salem	YES	As required	As required	Yes
HCGS ECG	YES	Ops Manager Hope Creek	YES	As required	As required	Yes
SGS 100 200 300	 YES YES YES	 OM-SGS Ops OM/TM/EPM RPM/CM	 YES YES YES	As required	As required	Yes
HC 100 200 300	 YES YES YES	 OM-HC Ops OM/TM/EPM RPM/CM	 YES YES YES	As required	As required	Yes
EOF 400 500 600 700	 YES YES YES YES	 EPM VP Eng RPM EPM	 YES YES YES YES	As required	As required	Yes
ENC 800	YES	Process Lead Comm	YES	As required	As required	Yes
Security 900	YES	Mgr Nuclear Security	YES	As required	As required	Yes
EP Admin 1000	YES	EPM	YES	As required	As required	Yes

NOTES:

* = Plan and procedures undergoing revisions that are editorial will require approval of Manager - EP & IT ONLY.

As Required = Review and approval required if 10CFR50.59 (Section 3) Safety Evaluation was performed or if 50.54(q) indicates a potential decrease in effectiveness of the Emergency Plan **(EP96-004)**.

For this table EPM is the same as Manager - EP & IT

Figure 17-1
ORGANIZATION FOR COORDINATION OF EMERGENCY PLANNING

Manager - Emergency Preparedness

Onsite Planning, Facilities and Equipment		Offsite Planning
Onsite Emergency Planning	**Emergency Facilities**	**Offsite Emergency Planning and Liaison**
Develop and implement PSEG Nuclear Emergency Plan administrative procedures	Maintain the emergency response facilities program.	Maintain Emergency Preparedness agreements for offsite programs
Coordinate, develop and maintain the Emergency Plan procedures	Evaluate and coordinate facilities and equipment changes	Coordinate state, county, local and offsite agency interface.
Maintain Emergency Preparedness Administrative Programs	Conduct surveillance and maintenance of ERF documents	Conduct drill/exercise program and interface for offsite programs
Develop drill/exercise scenarios	Conduct communications system surveillance program	Assist offsite agencies with annual 44CFR350 certification
Conduct drill/exercise program and ensure readiness	Implement correction of identified facilities and equipment deficiencies	Maintain ANS program documentation
Implement the overall deficiency identification and corrective action program	Maintain emergency response activation system	
Conduct EP self-assessment program		
Maintain EP training program		

SECTION 17

SIGNATURE PAGE

Prepared By: _____ 3/21/2000
(If Editorial Revisions Only, Last Approved Revision) Date

Reviewed By: _____ 03/21/2000
Station Qualified Reviewer Date

Reviewed By: _____ 3/22/2000
Department Manager Date

Reviewed By: _____ 3/22/2000
Manager - EP & IT Date

Reviewed By: _____ 5/17/00
Manager - Quality Assessment Date
(If Applicable)

SORC Review and Station Approvals

N/A Mtg. No. _____ N/A Salem Chairman N/A Mtg. No. _____ N/A Hope Creek Chairman

N/A Date N/A Date

_____ 5/24/00
Vice President Nuclear – Operations Date

Effective Date of this Revision 5-31-2000
Date