

# CATEGORY 1

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SUBJECT: Forwards rev 35 to "Site Emergency Plan" & emergency ]  
procedures for plant.

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Carl D. Terry  
Vice President  
Nuclear Safety Assessment and Support

January 16, 1997

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

file code: 97-EP-001

RE: Nine Mile Point Unit 1  
Docket No. 50-220  
DPR-63

Nine Mile Point Unit 2  
Docket No. 50-410  
NPF-69

Gentlemen:

Enclosed please find copies of the following Emergency Procedure(s) for Niagara Mohawk Power Corporation's Nine Mile Point Nuclear Station:

- Site Emergency Plan, Revision 35
- EPIP-EPP-06, Revision 02, "Inplant Emergency Surveys" (Coversheet Only)
- EPIP-EPP-07, Revision 03, "Downwind Radiological Monitoring"
- EPIP-EPP-12, Revision 02, "Re-Entry Procedure"
- EPIP-EPP-13, Revision 06, "Emergency Response Facilities Activation and Operation"
- EPIP-EPP-14, Revision 01, "Emergency Access Control"
- EPIP-EPP-16, Revision 04, "Environmental Monitoring"
- EPIP-EPP-17, Revision 02, "Emergency Communications Procedure"
- EPIP-EPP-18, Revision 04, "Activation and Direction of the Emergency Plans"
- EPIP-EPP-19, Revision 02, "Site Evacuation Procedure"
- EPIP-EPP-23, Revision 06, "Emergency Personnel Action Procedure"
- EPIP-EPP-25, Revision 03, "Emergency Classification and Recovery" (Coversheet Only)
- EPMP-EPP-02, Revision 08, "Emergency Equipment Inventories and Checklists"

These procedures are being submitted as required by Section V to Appendix E of 10 CFR Part 50. Should you have any questions, please feel free to contact Mr. James D. Jones, Director of Emergency Preparedness, at (315) 349-4486.

Very truly yours,

Carl D. Terry.  
Vice President - Nuclear Safety  
Assessment and Support

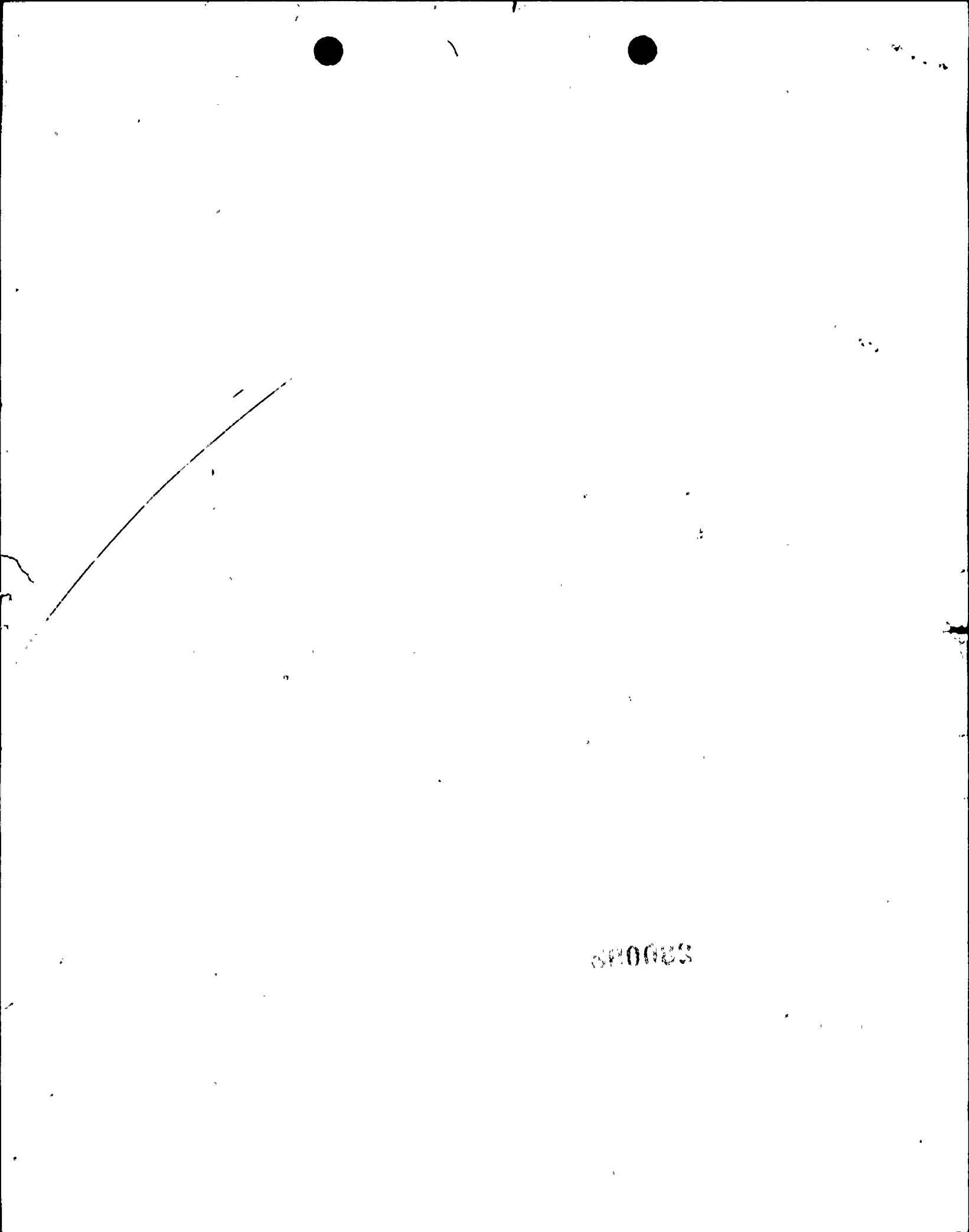
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Enclosure

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Records Management

A045 1/1



SPONGES

1.0 ACRONYMS AND DEFINITIONS

1.1 ACRONYMS

*Superseded Page  
per revision to  
Site Emergency Plan dated  
97-01-16*

This section contains the acronyms of terms that are used in a special context in this plan and/or are unique to Nine Mile Point Nuclear Station (NMPNS).

*97 01290105*

- o ACAD - Automated Card Access Device
- o AEOF - Alternate Emergency Operations Facility
- o ALARA - As Low As Reasonably Achievable
- o ARM - Area Radiation Monitor
- o ASSS - Assistant Station Shift Supervisor
- o CED/RM - Corporate Emergency Director/Recovery Manager
- o CDE<sub>T</sub> - Committed Dose Equivalent - Thyroid (Child)
- o CWP - County Warning Point
- o DOE - U.S. Department of Energy
- o EAL - Emergency Action Level
- o EBS - Emergency Broadcasting System
- o EDPI - Emergency Director of Public Information
- o EDAMS - Emergency Dose Assessment Modeling System
- o EDE - Effective Dose Equivalent
- o ENS - Emergency Notification System
- o EOC - Emergency Operations Center
- o EOF - Emergency Operations Facility
- o EPA - U.S. Environmental Protection Agency
- o EPIP - Emergency Plan Implementing Procedure
- o EPMP - Emergency Plan Maintenance Procedure
- o EPZ - Emergency Planning Zone
- o ERF - Emergency Response Facilities
- o FRMAP - Federal Radiological Monitoring and Assessment Plan
- o FSAR - Final Safety Analysis Report
- o IAFNPP - James A. FitzPatrick Nuclear Power Plant
- o JNC - Joint News Center
- o KI - Potassium Iodide

*50-220*

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- o LCO - Limiting Condition for Operation
- o MMS - Meteorological Monitoring System
- o NED - Nuclear Engineering Department of NMPC
- o NMPC - Niagara Mohawk Power Corporation
- o NMP - Nine Mile Point
- o NMPNS - Nine Mile Point Nuclear Station
- o NRC - U.S. Nuclear Regulatory Commission
- o NSSS - Nuclear Steam Supply System
- o NWS - National Weather Service
- o NYPA - New York Power Authority
- o NYSDOH - New York State Department of Health
- o OCEMO - Oswego County Emergency Management Office
- o OCEOC - Oswego County Emergency Operations Center
- o ODAM - NMPNS Offsite Dose Assessment Manager
- o OSC - Operations Support Center
- o PACC - Public Affairs and Corporate Communications Department of  
Niagara Mohawk Power Corporation
- o PAG - Protective Action Guide
- o PAR - Protective Action Recommendation
- o PASS - Post-Accident Sampling System
- o PNS - The Oswego County Prompt Notification System
- o RAM - NMPNS Radiological Assessment Manager
- o RECS - Radiological Emergency Communications System
- o RQ - Reactor Operator
- o SED - NMPNS Site Emergency Director
- o SEMO - State Emergency Management Office
- o SEP - NMPNS Site Emergency Plan
- o SEOC - State Emergency Operations Center
- o SOP - Special Operating Procedure
- o SORC - Site Operations Review Committee
- o SRAB - Safety Review and Audit Board
- o SRD - Self-Reading Dosimeters





- o SRO - Senior Reactor Operators
- o SSS - Station Shift Supervisor
- o STA - Shift Technical Advisor
- o STOC - Security Tactical Operations Center
- o SUNY - State University of New York
- o SWP - State Warning Point
- o TEDE - Total Effective Dose Equivalent
- o TIBL - Thermal Internal Boundary Layer
- o TLD - Thermoluminescent Dosimeter
- o TSC - Technical Support Center
- o USAR - Updated Safety Analysis Report
- o WSFO - Weather Service Forecasting Office

## 1.2 DEFINITIONS

This section contains the definitions of terms that are used in a special context in this plan and/or are unique to Nine Mile Point Nuclear Station (NMPNS).

- o ACCESS CONTROL POINTS - Checkpoints for incoming traffic to be stopped and identification verified. These points are established by Niagara Mohawk Power Corporation (NMPC) Nuclear Security at the Alert, or higher emergency classification, or as directed by the Site and Corporate Emergency Director. The Access Control Points are predesignated at two locations:
  - The intersection of County Route 29 and Private Road
  - The intersection of County Route 1A and Private Road
- o AFFECTED UNIT - The affected unit is NMPNS Unit 1 and/or Unit 2 whichever has declared an emergency.
- o ALTERNATE STATE WARNING POINT - The Alternate SWP is located in the N.Y. State Police Communications Center in the Public Security Building, State Office Building Campus, Albany, N.Y. This facility is manned 24 hours per day and could perform the same functions as the State Warning Point (see State Warning Point).
- o AREA RADIATION MONITOR (ARM) - A fixed instrument which typically measures gross gamma radiation levels in a local area and alarms when the radiation exposure rate reaches the preset alarm level.



- o ASSESSMENT ACTIONS - Those actions taken during or after an accident to obtain and process information that is necessary to make decisions to implement specific emergency measures.
- o ASSESSMENT FACILITY - A facility used for evaluation of information including instrument data, to assess the scope and severity of an emergency condition. Such facilities available to Nine Mile Point include:
  - Onsite
    - Control Rooms
    - Technical Support Center
    - Emergency Operations Facility
    - NMPC Nuclear Engineering Offices
  - Off-Site
    - Alternate Emergency Operations Facility
- o CDE<sub>T</sub> - Represents the dose equivalent to the child thyroid, weighted on the basis of the relative detriment to the individual, for an exposure period of 50 years.
- o CORPORATE EMERGENCY DIRECTOR/RECOVERY MANAGER - Serves as the senior Niagara Mohawk Power Corporation management representative at the site and will replace the Site Emergency Director as the individual with overall responsibility for control of the emergency situation.
- o CORRECTIVE ACTIONS - Those emergency measures taken to mitigate or terminate an emergency situation at or near the source of the problem in order to prevent an uncontrolled release of radioactive material or to reduce the magnitude of a release.
- o COUNTY WARNING POINT (CWP) - The communications center at Oswego Fire Control in Oswego, N.Y. is the County Warning Point. It serves as a 24-hour notification point for messages from the utilities to appropriate officials in the county.
- o DIRECTOR EMERGENCY PREPAREDNESS - The individual responsible for the coordination of emergency planning efforts.



- o DOSE PROJECTION - A calculated estimate of the potential dose to individuals at a given location onsite or offsite. It is determined from the quantity of radioactive material released and the appropriate meteorological transport and diffusion parameters.
- o EMERGENCY - A situation outside of routine operational events or minor equipment malfunction which could lead to a radiological hazard affecting the health and safety of workers or the public, or result in significant damage to property.
- o EMERGENCY ACTIONS - A collective term encompassing the assessment, corrective and protective actions taken during the course of an emergency.
- o EMERGENCY ACTION LEVELS (EAL) - Specific indications or conditions used as thresholds for initiating specific emergency actions.
- o EMERGENCY BROADCAST SYSTEM (EBS) - A system of radio stations organized to permit designated government officials to issue emergency information and instructions in threatened or actual emergencies.
- o EMERGENCY CLASSIFICATION - A condition which falls into one of the following categories (as defined in Section 4.0): Unusual Event, Alert, Site Area Emergency, or General Emergency.
- o EMERGENCY OPERATIONS CENTERS (EOC) - Local and State facilities for assessment of emergency information and direction of local and State emergency response personnel.
- o EMERGENCY PLAN IMPLEMENTING PROCEDURES (EPIP-EPPs) - Procedures which provide detailed instructions for use by NMPC personnel to implement the NMPNS Site Emergency Plan.
- o EMERGENCY PLAN MAINTENANCE PROCEDURES (EPMP-EPPs) - Procedures which provide instructions, checklists, and guidance to maintain the emergency preparedness program, equipment and associated documents.
- o EMERGENCY PLANNING ZONE (EPZ) - A designated area around NMPNS used to facilitate offsite emergency planning. There are two Emergency Planning Zones. They are the plume exposure pathway and the ingestion exposure pathway.



- o EMERGENCY RESPONSE FACILITY (ERF) - A generic term referring to a facility that is used for emergency purposes. These facilities include the Control Room, Technical Support Center, Emergency Operations Facility, Operations Support Center, Oswego County Emergency Operations Center, etc.
- o EMERGENCY RESPONSE/RECOVERY ORGANIZATION - The organization, which consists of corporate, station and outside personnel, that manages the large scale or long-term response to and recovery from an accident.
- o ENVIRONMENTAL MONITORING TEAMS - These teams are characterized by personnel from the station staff (Radiation Protection or Environmental Departments) or contractor staff that collect environmental measurements as part of the Expanded Radiological Environmental Monitoring Program.
- o EVACUATION ASSEMBLY AREAS - Areas in which personnel and visitors at the station assemble during an emergency for accountability purposes.
- o EXCLUSION AREA - The area controlled by NMPC surrounding the station, in which the licensee has the authority to determine all activities including exclusion or removal of personnel and property from the area. For emergency preparedness purposes, the NMPNS/JAFNPP exclusion areas are considered to be one exclusion area.
- o EXPANDED RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM - This program is characterized by an increase in the number and frequency of samples collected, plus other additional sampling of critical pathways (such as snow, ground deposition, surface water, etc.)
- o FEDERAL RADIOLOGICAL MONITORING AND ASSESSMENT PLAN (FRMAP) - The Federal government's means of providing in-depth assistance to licensees, States, and local governments in the event of a radiological emergency. The monitoring and assessment teams are normally provided by the Department of Energy (DOE).
- o HAZARDOUS MATERIALS - Any element, compound or combination thereof, which is detonable, flammable, corrosive, toxic, an oxidizer, an etiologic agent, or highly reactive and which because of handling, storage processing, or packaging may have detrimental effects upon operating personnel and emergency personnel, the public, plant equipment, and/or the environment.





- o INGESTION EXPOSURE PATHWAY - The principal exposure from this pathway would be from ingestion of contaminated water or foods such as milk or fresh vegetables. The duration of principal exposures could range in length from hours to months.
- o KEY POSITION - The positions within an Emergency Response Facility that are responsible for performing key aspects (Tech. Assessment, Rad. Assessment, etc.) of the facility. (Example: Tech Data Coordinator, Rad. Assessment Manager). Key positions are those positions listed in Table B-1 of NUREG-0654. NMPC considers persons in key positions to be "initial responders".
- o LOCAL AREA EVACUATION - Evacuation of personnel from localized areas within the station, with assembly outside the affected local area.
- o OFFSITE - Any area outside of the joint property controlled by NMPC and NYPA.
- o ONSITE - The area within the joint property controlled by NMPC and NYPA, the exclusion area.
- o OSWEGO COUNTY EMERGENCY IDENTIFICATION CARDS - ID cards issued to individuals assigned emergency duties which allow admittance beyond the Access Control Points, and into the 10 Mile EPZ.
- o OSWEGO COUNTY EMERGENCY OPERATIONS CENTER (OCEOC) - It serves as the county command post from which emergency operations will be directed and coordinated. The OCEOC is located in the Oswego County Emergency Management Offices in the basement of the Oswego County Branch Building, Route 481, Fulton, N.Y.
- o PERSONNEL ACCOUNTABILITY SYSTEM - A system of accounting for personnel within the Protected Area during an emergency. The system was developed in response to NUREG-0654 (Section II.J.5) and uses the Nuclear Security Key Cards assigned to personnel entering the Protected Area, Emergency Accountability Card readers located throughout the plant, and a computerized database. The system provides timely identification of individuals who have NOT reported to evacuation Assembly Areas and generates a personnel accountability report.
- o PA SYSTEM - A generic term used throughout the Site Emergency Plan referring to a Public Address system where an announcement or alarm can be made and heard throughout the protected area. Other terms used for the PA system are the GAItronic, Plant Paging System, Page Party/Public Address Communications Subsystem (PP/PA), etc.



- o PREVENTIVE PAG'S - These are projected dose commitment values at which recommendations should be made to responsible offsite officials. These actions should have minimal impact to prevent or reduce the radioactive contamination of human food or animal feed.
- o PLUME EXPOSURE PATHWAY - A pathway by which individuals can be exposed to radiation. The principal exposure sources from this pathway are: (a) whole body external exposure to gamma radiation from the plume and from deposited material; and (b) inhalation exposure from the passing radioactive plume.
- o PRIMARY ASSEMBLY AREAS - Onsite assembly areas at NMPNS to which personnel at the station report during an emergency, except those assigned other specific reporting locations.
- o PROTECTED AREA - This is the area within the station security fence designated to implement the security requirements of 10CFR73. It is sometimes referred to in the context of Unit 1 and/or Unit 2 protected area.
- o PROTECTIVE ACTIONS - Those emergency measures taken before or after a release of radioactive material has occurred for the purpose of preventing or minimizing radiological exposures to persons that would be likely to occur if the actions were not taken. Some of the possible protective actions are:
  - General Sheltering
  - General Evacuation
  - Isolation of Ingestion Pathway and Sources
  - Radioprotective Drug Administration
- o PROTECTIVE ACTION GUIDES (PAGs) - Projected radiological dose or dose commitment values to individuals in the general population that warrant protective action before or following a release of radioactive material. Protective actions would be warranted provided that the reduction in individual dose expected to be achieved by carrying out the protective action is not offset by excessive risks to individual safety in taking the protective action. The PAG does not include the dose that has unavoidably occurred prior to the assessment.
- o RADIOLOGICALLY CONTROLLED AREA (RCA) - Major plant areas to which access is limited for the purpose of protecting personnel from exposure to radiation and contamination.
- o RADIOLOGICAL EMERGENCY COMMUNICATIONS SYSTEM (RECS) - A dedicated telephone system used to provide initial notification of an emergency, and continuing emergency information, to the State and to Oswego County.



- o RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM - Characterized by the collection of normal radiological samples required by technical specifications and additional optional samples not covered in technical specifications (such as soil, meat, poultry, etc.)
- o RECOVERY ACTIONS - Those actions taken after an emergency to restore the plant as nearly as possible to its pre-emergency condition.
- o REMOTE ASSEMBLY AREA - Specific locations outside the NMPNS exclusion area for the assembly of personnel in the event of a site evacuation.
- o REQUISITE TRAINING - The training specified for an emergency position, and contained within Training Department Procedures for Emergency Preparedness.
- o RESTRICTED AREA - Any area to which access is controlled by NMPC for purposes of protection of individuals from exposure to radioactive materials.
- o SAFE SHUTDOWN SYSTEM - A descriptive term applying to a combination of systems that can be used to provide a decay heat removal path.
- o SAFETY ANALYSIS REPORT (SAR) - A periodically updated multivolume report describing a nuclear power station's site, design features, safety features and the utility's intended methods of operation. The SAR must be submitted to the U.S. NRC by the utility when applying for an operating license for the nuclear station. The Unit 1 SAR may be referred to as FSAR and Unit 2 to as USAR.
- o SAFETY PARAMETER DISPLAY SYSTEM (SPDS) - This system provides a display of plant parameters from which the safety status of station operations may be assessed in the Control Rooms and Technical Support Center.
- o SAFETY REVIEW AND AUDIT BOARD (SRAB) - A committee which provides independent review and audit of designated activities affecting the safe operation of the stations and as required by Technical Specifications.
- o SECURITY CONTINGENCY EVENT - A deliberate act or perceived threat of an act which could imperil the station and endanger the public health and safety by exposure to radiation.
- o SECURITY TACTICAL OPERATIONS CENTER (STOC) - A security command center that may be activated during a safeguards contingency or site emergency.



- o SITE EMERGENCY DIRECTOR - The individual is responsible for the implementation and administration of the NMPNS Site Emergency Plan. Directs the onsite emergency response organization and has overall authority for control of the emergency situation and for assuring continuity of resources until relieved of these authorities by the Corporate Emergency Director/Recovery Manager.
- o SITE EVACUATION - Evacuation of all non-essential personnel from the NMPNS protected area via the Security Buildings to the designated Remote Assembly Area(s). It also includes, as appropriate, the evacuation of individuals from the NMPNS exclusion area including the Nuclear Learning Center; Energy Center, Sewage Treatment Facility and all other NMPNS site locations to their homes or a designated Remote Assembly Area.
- o SITE OPERATIONS REVIEW COMMITTEE (SORC) - A review group which, in accordance with Station Technical Specifications, functions by advising the SORC Chairman and the Safety Review and Audit Board concerning the safety aspects of proposed courses of action.
- o SPECIAL OPERATING PROCEDURES (SOP) - These procedures contain instructions for station operators usually attributed to emergency procedures in the regulatory guides and standards.
- o STATE EMERGENCY OPERATIONS CENTER (SEOC) - The State command post from which emergency operations will be directed and coordinated.
- o STATE WARNING POINT (SWP) - Serves as a notification point for messages from the utilities to appropriate officials in the State. The SWP is manned on a 24-hour per day basis.
- o STATION EVACUATION - Evacuation of nonessential individuals within the station's protected area, with assembly at their designated Evacuation Assembly Areas.
- o TOTAL EFFECTIVE DOSE EQUIVALENT (TEDE) - Represents the sum of the effective dose equivalent and the committed effective dose equivalent.
- o UNRESTRICTED AREA - Any area to which access is not controlled by NMPC for purposes of protection of individuals from exposure to radiation and radioactive materials, and any area used for residential quarters.

