

12.6 EMERGENCY PLANNING

The Exelon Nuclear Standardized Radiological Emergency Plan (E-Plan) Is a written emergency plan that establishes the concepts, evaluation and assessment criteria, and recommended protective actions necessary to limit and mitigate the consequences of potential or actual nuclear power plant emergencies. The E-Plan provides the necessary prearrangements, directions, and organization to ensure nuclear emergencies can be effectively and efficiently resolved to safeguard station personnel, property, and the general public.

The E-Plan has been developed based on the emergency planning and preparedness requirements specified in Appendix E to 10 CFR Part 50 and Regulatory Guide 1.101. The E-Plan has been submitted to and approved by the NRC. It is reviewed annually; any changes or revisions that pertain to regulatory requirements are submitted to the NRC for approval.

The E-Plan includes site-specific annexes that contain additional information and guidance that are unique to each nuclear generating facility. The site-specific annexes are not Independent of the E-Plan. Each site has emergency plan implementing procedures that implement the E-Plan appropriately. The E-Plan identifies onsite and offsite facilities and equipment available for emergency assessment, communications, first aid and medical care, and damage control. The emergency response facilities consist of the Control Room, Technical Support Center, Operational Support Center, Emergency Operations Facility, and Joint Information Center.

The E-Plan provides for classification of emergencies into five categories (listed in order of increasing severity): Unusual Event, Alert, Site Area Emergency, General Emergency, and Recovery. A description of the five categories is provided below:

a. Unusual Event

Events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection has been initiated. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.

b. Alert

Events are in progress or have occurred which indicate an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life-threatening risk to site personnel or damage to site equipment because of hostile action. Any releases are expected to be limited to small fractions of Environmental Protection Agency (EPA) Protective Action Guideline exposure levels.

c. Site Area Emergency

Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public or hostile action that results in intentional damage or malicious acts; 1) toward site personnel or equipment that could lead to the likely failure of or; 2) that prevent effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the site boundary.

d. General Emergency

Events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or hostile action that results in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

e. Recovery

That period when the emergency phase is over, and actions are being taken to return the situation to a normal state (acceptable condition). The plant is under control and no potential for further degradation to the plant or the environment is believed to exist.

The E-Plan includes notification requirements for classified events, including prompt and accurate notifications to federal, state, and local governments.

Training is conducted for all emergency response personnel to ensure their proficiency. The training programs for emergency response personnel are based on the requirements of Appendix E to 10 CFR Part 50.

Evaluated exercises are conducted biennially at each nuclear station to test the adequacy of timing and content of implementing procedures and methods; to test emergency equipment and communication networks; and to ensure that emergency response personnel are familiar with their duties. Each exercise involves participation by federal, state, and/or local personnel as prescribed by regulatory requirements.

The E-Plan and station-specific annexes are distributed on a controlled basis to all stations and emergency facilities requiring them, including appropriate federal, state, and local agencies.