



EMERGENCY SUPPORT FUNCTION #18

NUCLEAR POWER RADIOLOGICAL

EMERGENCY PREPAREDNESS ANNEX

PRIMARY AGENCIES:

- State: Division of Emergency Management
Radiation Regulatory Agency
- County: Maricopa County Department of Emergency Management
- Private: Arizona Public Service Company - Palo Verde Nuclear Generating Station

I. INTRODUCTION

A. Purpose

Provide basic information for off-site government response to an incident at the Palo Verde Nuclear Generating Station, Maricopa County.

B. Scope

1. The separate State of Arizona/County of Maricopa Fixed Nuclear Facility Emergency Response Off-Site Plan applies to all state government departments and agencies which are tasked to provide emergency response and recovery assistance due to an incident at the Palo Verde Nuclear Generating Station (PVNGS).
2. The plan serves as the foundation for detailed state agency plans and procedures to implement state response activities in a timely and efficient manner to support local government response/recovery activities.
3. The plan addresses state/federal recovery assistance programs. Recovery activities may be conducted concurrently with response activities.

II. SITUATION AND ASSUMPTIONS:

- A.** If an incident occurs at the PVNGS, state/local responders and decision makers will deploy to EOCs and other facilities. Actions will be taken to protect the public and the environment.
- B.** There are four incident classifications called Emergency Classification Levels (ECLs). Each level mandates specific actions by the utility, state and local emergency response organizations.

1. **Notification of Unusual Event (NUE)** indicates events are in progress or have occurred, which indicate a potential degradation of safety of the PVNGS. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.
2. **Alert Notification** indicates events are in progress, or have occurred, which involve an actual or potential substantial degradation of safety of the facility. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline (PAG) exposure levels.
3. **Site Area Emergency Notification** indicates events are in progress, or have occurred, which involve actual or likely major failures of plant functions needed for the protection of the public. Releases are not expected to exceed the EPA PAG exposure levels except near site boundaries.
4. **General Emergency Notification** indicates events are in progress or have occurred, which involve actual or imminent substantial core degradation or melting, with a potential loss of containment integrity. Releases can be expected to exceed EPA PAG exposure levels offsite for more than the immediate site area.

III. **CONCEPT OF OPERATIONS**

Refer to the separate State of Arizona/County of Maricopa Fixed Nuclear Facility Emergency Response Off-Site Plan for detailed response and recovery procedures.

IV. **ORGANIZATIONAL ROLES AND RESPONSIBILITIES**

Refer to the separate State of Arizona/County of Maricopa Fixed Nuclear Facility Emergency Response Off-Site Plan for detailed roles and responsibilities.

V. **PLAN DEVELOPMENT, MAINTENANCE AND TESTING**

- A. ADEM is responsible for the development and maintenance of this ESF.
- B. Exercises are conducted annually to test the operational readiness and certification of the separate State of Arizona/County of Maricopa Fixed Nuclear Facility Emergency Response Off-Site Plan.

VI. **ADMINISTRATION AND LOGISTICS**

Support of this ESF will consist of assistance from federal, state, county, local and volunteer agencies as necessitated by the radiological incident.