

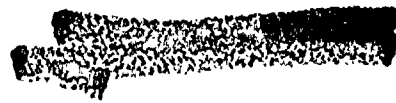
**WITHHOLD FROM PUBLIC DISCLOSURE  
PURSUANT TO 10 CFR 2.790**

**ENCLOSURE**

**1997 BIENNIAL EMERGENCY PLAN EXERCISE  
90 DAY SUBMITTAL**

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9706190447 970220  
PDR ADOCK 05000528  
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**OBJECTIVES**

The following objectives, taken from the PVNGS Emergency Planning Master List of Objectives, have been chosen to be demonstrated in the 1997 PVNGS Biennial Exercise:

**A. PVNGS Objectives**

1. Demonstrate the ability to assess plant conditions.
2. Demonstrate the ability to classify (*or upgrade*) the event in accordance with the emergency classification procedure.
3. Demonstrate the ability to notify offsite agencies within 15 minutes of emergency declaration (*or change*).
4. Demonstrate the ability to staff and activate emergency response facilities within the time frames specified in the PVNGS Emergency Plan.
5. Demonstrate the adequacy of onsite / offsite communications capabilities.
6. Demonstrate the adequacy of onsite / offsite radiological capabilities.
7. Demonstrate the ability to obtain and analyze a liquid sample using the Post Accident Sampling System (PASS) during adverse radiological conditions.
8. Demonstrate prompt notification of recommended protective actions to offsite agencies.
9. Demonstrate that staffing augmentation is adequate for 24-hour per day emergency response.
10. Demonstrate the adequacy of medical services for contaminated injured individuals.
11. Demonstrate the functional adequacy of the emergency response facilities.
12. Demonstrate timely information release to the media via coordinated onsite offsite elements.

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**B. State of Arizona / Maricopa County Objectives**

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.
2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.
3. Demonstrate the capability to direct and control emergency operations.
4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.
5. Demonstrate the ability to continuously monitor and control radiation exposure to emergency workers.
6. Demonstrate the appropriate use of equipment and procedures for determining field radiation measurements.
7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.
8. Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as  $10E-7$  (0.0000001) microcurie ( $\mu\text{Ci}$ ) per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume.
9. Demonstrate the capability to make timely protective action decisions (PAD).
10. Demonstrate the capability to promptly alert and notify the public within the 10 mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials.
11. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.



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12. Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.
13. Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.
14. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public.
15. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.
16. Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).
17. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.
18. Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees.
19. Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees.
22. Demonstrate the adequacy of procedures for monitoring and decontamination of emergency workers, equipment, and vehicles.
23. Demonstrate the capability to identify the need for external assistance and to request such assistance from Federal or other support organizations.
31. Demonstrate the capability to provide offsite support for the evacuation of onsite personnel.



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**RESPONSE LOCATIONS / EXTENT OF PLAY**

**1 Utility - Palo Verde Nuclear Generating Station (1-10, Exit 98)**

**1.1 Unit 2 Control Room (Simulator-A)**

Unit 2 Control Room (Simulator-A) will be used to accommodate the event initiators. Off-shift Operations staff will be utilized to represent the on-shift Operations crew. Auxiliary Operators assigned to the Simulator crew will receive the shift turnover information in the Simulator and then traverse to Unit 2, where they will simulate the on-shift Auxiliary Operators.

**1.2 Simulator-A Satellite Technical Support Center (STSC)**

Simulator-A STSC will be fully activated.

**1.3 Technical Support Center (TSC)**

The TSC will be fully activated.

**1.4 Unit 2 Operations Support Center (OSC)**

Unit 2 OSC will be fully activated.

**1.5 Emergency Operations Facility (EOF)**

The EOF will be fully activated.

**1.6 Strategic Communications**

Strategic Communications may be notified at the Notification of Unusual Event (NUE) classification (optional) and informational responsibilities will transfer to the Joint Emergency News Center (JENC) upon event escalation.





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**2. Federal**

**2.1 US Nuclear Regulatory Commission (USNRC) -Region-IV (Arlington TX)**

The USNRC will engage as observers / evaluators. Exercise participants will be evaluated against predetermined federal standards by the evaluators.

**2.2 National Weather Service (NWS) - Phoenix AZ**

The National Weather Service, an agency of the National Oceanic and Atmospheric Administration, correlates weather data per local agencies' requests for atmospheric dispersion and near-term forecasts related to radioactive plume characteristics. The NWS will accommodate requests as delineated by the local agencies.

**2.3 Federal Emergency Management Agency - Region-IX (FEMA)**

FEMA will engage as observers / evaluators for offsite activities. Offsite agency Exercise participants will be evaluated against predetermined federal standards by the evaluators.

**3. State of Arizona**

**3.1 Emergency Operations Center (EOC)**

The State EOC (including the Public Inquiry Center, the Joint Emergency News Center, and the State Technical Operations Center) will be fully activated. Equipment will be pre-staged for the TOC.

**3.2 Joint Emergency News Center (JENC)**

The JENC will be fully activated.



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**3.3 Radiological Emergency Assistance Team (REAT)**

The REAT Center (Environmental Surveillance Laboratory) will be fully activated.

**3.4 REAT Forward**

REAT Forward will be fully activated. Charcoal filters will substitute for Silver Zeolite in performance of sampling techniques. Emergency worker monitoring will be demonstrated, but will occur out-of-sequence to other evaluated demonstrations.

**3.5 Reception and Care Center**

The participating Reception and Care Center is located at Tolleson Union High School, 9419 W. Van Buren, Tolleson AZ. Twelve individuals will be used for monitoring. No personnel decontamination nor vehicle monitoring decontamination will be performed.

**4. Maricopa County**

**4.1 Maricopa County Emergency Operations Center (MCEOC)**

The County EOC will be fully activated.

**4.2 Maricopa County Sheriff's Office (MCSO)**

The MCSO On-Scene Command Post will be fully activated.

**5. Volunteer Agencies**

**5.1 American Red Cross (ARC)**

Deployment of the Phoenix Chapter of the ARC will occur.



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**6. General Response**

- 6.1** The Notification Alert Network (NAN) will be used.
  - 6.1.1** Government Response Organizations will be alerted.
- 6.2** State, County, and volunteer response organizations will be mobilized.
- 6.3** The demonstration of evacuation for affected citizens within the EPZ will be simulated. The evacuees will be pre-staged at the Reception and Care Center (RCC). Monitoring and radioactive decontamination, if appropriate, will occur.
- 6.4** An evacuation of a representative resident group with special needs (approximately 4-6 individuals) will occur. One special needs evacuation location will be established for evaluation purposes.
- 6.5** Transportation of a contaminated injured person will be demonstrated separately in a Medical Drill involving Good Samaritan Hospital and AirEvac at a date to be determined. The ability to draw and analyze a sample using the Post-Accident Sampling System (PASS) during adverse radiological conditions will be simulated in the Exercise and will be fully demonstrated in a PASS Drill at a date to be determined.
- 6.6** State Protective Action Decisions will be transmitted to affected schools. Evacuation of the schools will not be demonstrated.
- 6.7** Road Blocks/Access Control Points (1 for evaluation) will be implemented to demonstrate this function and then secured.



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- 6.8** The onsite monitoring teams will simulate the donning of protective clothing appropriate to the scenario as directed by the RFAT Lead Controller. All offsite teams will simulate the use of protective clothing and related equipment.
- 6.9** In-plant teams will don protective clothing appropriate to the scenario as directed by the facility Lead Controller.
- 6.10** Primary communications systems will be utilized as required by the scenario.
- 6.11** The siren portion of the PVNGS Site Warning Siren/Public Address System will be simulated. The public address portion of this system will be used onsite only. Verbal notifications in the affected area for simulated siren malfunctions will be provided by the Maricopa County Sheriffs Office.
- 6.12** Use of the Offsite Siren Activation System will be simulated. Siren sounding will not occur. Emergency Broadcast System (EBS) / Emergency Alerting System (EAS) messages will be generated and distributed to KTAR, but none will be broadcast. The warnings will be disseminated amongst the Exercise participants via the emergency communications systems and to the representative resident group via a supplemental warning team for the evacuation.
- 6.13** The media will be simulated for emergency information dispensation. Rumor Control will be activated and simulated inquiries will take place.
- 6.14** Onsite assembly and accountability will be simulated. Evacuation will also be simulated.
- 6.15** The JENC staff will produce coordinated press releases and conduct oral briefings to actual and simulated media personnel.





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- 6.16** The distribution of Potassium Iodide (KI) to emergency workers will be simulated. The appropriate Exercise Controller will receive verbal notification that an announcement has been transmitted to affected personnel. REAT Forward will subsequently be notified that KI has been dispensed.

