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SUBJECT: Forwards objectives & extent of play 1989 annual emergency exercise scheduled for 890503 for review & comment.

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## Arizona Nuclear Power Project

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240-00414-DBK/HFB : 14  
January 30, 1989

Mr. John B. Martin, Regional Administrator  
Office of Inspection and Enforcement  
United States Nuclear Regulatory Commission  
Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

Dear Mr. Martin:

Subject: PALO VERDE NUCLEAR GENERATING STATION (PVNGS)  
Units I, II and III  
Docket Nos. STN 50-528 (License NPF-41)  
STN 50-529 (License NPF-51)  
STN 50-530 (License NPF-65)  
1989 Annual Emergency Plan Exercise  
File: 89-002-493

Reference: Nuclear Administrative and Technical Manual Procedure  
16AC-OEP06.

Attached for your review and comment are the Objectives and Extent of Play for the 1989 PVNGS Annual Emergency Plan Exercise scheduled May 3, 1989. These Objectives and Extent of Play are submitted pursuant to the above reference.

If you are in need of clarification or additional information, please contact Harry Bieling at (602) 393-6280.

Very truly yours,

Donald B. Karner,  
Executive Vice-President  
PVNGS

DBK/HFB/rb

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Page Two  
Palo Verde Nuclear Generating Station (PVNGS)  
January 26, 1989

Attachment (1)

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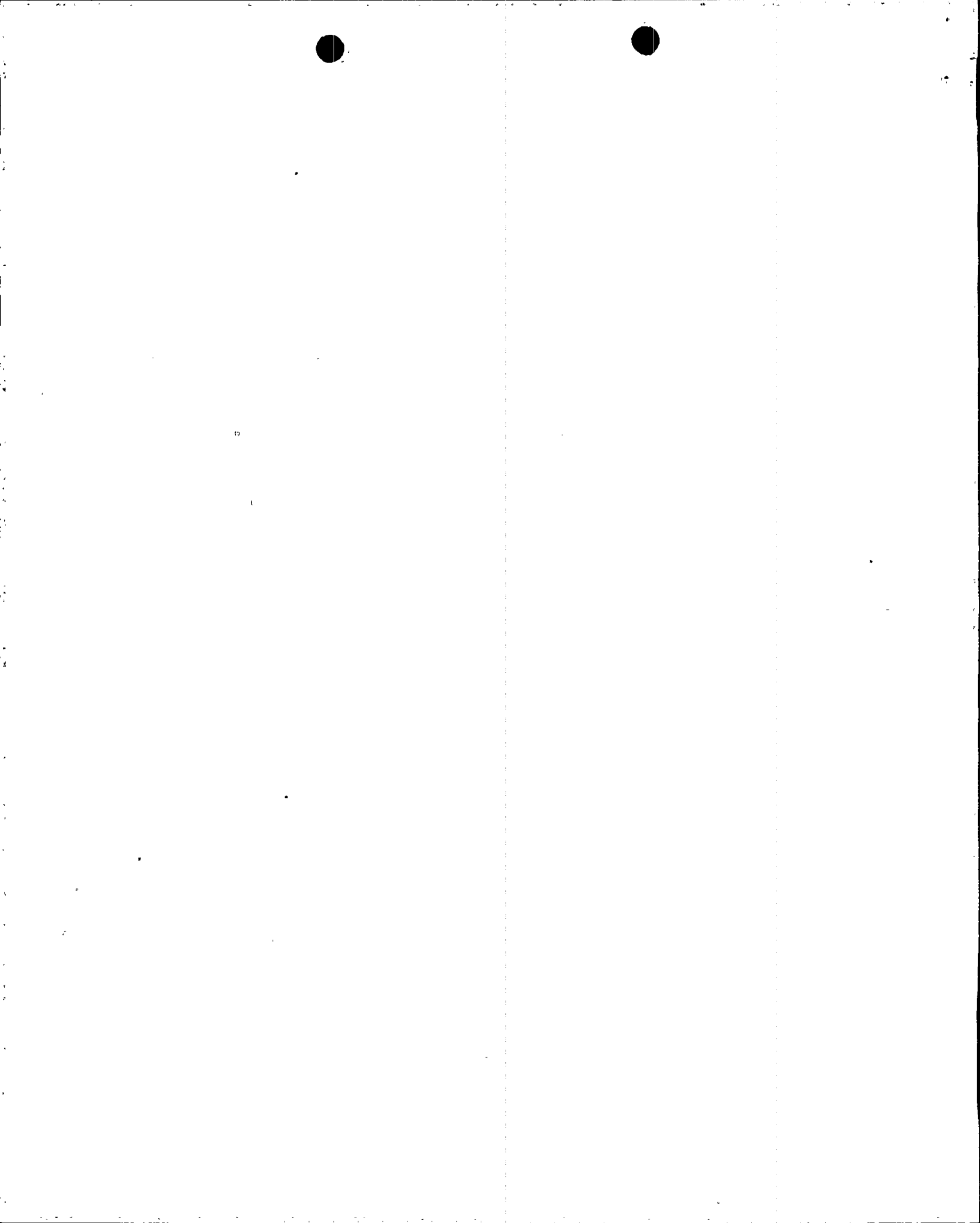
## 2.0 EXERCISE OBJECTIVES AND EXTENT OF PLAY

### 2.1 Objectives

#### 2.1.1 Onsite Facilities (PVNGS)

##### A. General Objectives

- Demonstrate adequacy of the Emergency Plan and Emergency Plan Implementing Procedures both in terms of management control of an emergency situation and the workability of the procedures at all levels.
- Demonstrate ability to respond to an emergency situation initiated during normal day-shift hours (7:00 AM - 3:30 PM).
- Demonstrate ability to activate ANPP/APS emergency response facilities in a timely fashion.
- Demonstrate functional adequacy of the ANPP/APS emergency response facilities, including communications links and equipment.
- Demonstrate ability of key personnel to make timely and effective decisions with respect to a radiological emergency.
- Demonstrate methods established to maintain adequate security access control to emergency facilities.
- Demonstrate ability to maintain timely and accurate information on status boards.
- Demonstrate ability to provide first aid and initial care to a contaminated injured individual and provide associated radiological and contamination controls.





- B. Control Room (CR)/Satellite Technical Support Center (STSC) [Simulator]
- Demonstrate ability to assess plant conditions.
  - Prior to TSC activation, demonstrate ability of Shift Supervisor/Onshift Emergency Coordinator to classify events per EPIP-02.
  - Prior to TSC/EOF activation, demonstrate ability to identify projected trends and potential consequences.
  - Demonstrate ability to take corrective actions to control the situation and mitigate the consequences.
  - Demonstrate ability to alert and notify PVNGS emergency response personnel in a timely manner.
  - Prior to EOF activation, demonstrate ability to make initial notifications to state and county agencies within 15 minutes of an emergency declaration and the NRC immediately thereafter.
  - Prior to EOF activation, demonstrate ability to provide follow-up information as requested by offsite agencies.
  - Prior to TSC/EOF activation, demonstrate ability to determine actual or potential onsite and offsite radiological conditions including performance of initial dose projections and preparation for deployment of field monitoring teams.
  - Prior to EOF activation, demonstrate ability to make timely Protective Action Recommendations to offsite agencies.
  - Demonstrate ability to effectively transfer responsibilities from the Onshift Emergency Coordinator to the Onsite Emergency Coordinator and inform the emergency response organization per EPIP-11.



B. Control Room (CR)/Satellite Technical Support Center (STSC) [Simulator] (Continued)

- Demonstrate the ability to maintain a timely and accurate log of events.

C. Technical Support Center (TSC)

- Demonstrate ability to effectively transfer responsibilities from the Onshift Emergency Coordinator to the Onsite Emergency Coordinator and inform the emergency response organization per EPIP-11.
- Demonstrate effective direction and control of onsite monitoring and repair teams.
- Demonstrate ability to perform health physics practices including contamination control and routine habitability surveys.
- Demonstrate ability to receive and analyze onsite/inplant radiological data.
- Demonstrate capability of the Onsite Emergency Coordinator to classify events per EPIP-02.
- Demonstrate ability to obtain adequate plant documents, drawings, plans and procedures in support of Control Room activities.
- Demonstrate ability to manage onsite emergency response functions, emergency maintenance, safety and hazards control, engineering/technical analysis, radiation protection and reactor analysis.
- Demonstrate ability to establish (and if requested by NRC) maintain communications with the NRC regarding health physics and operations.



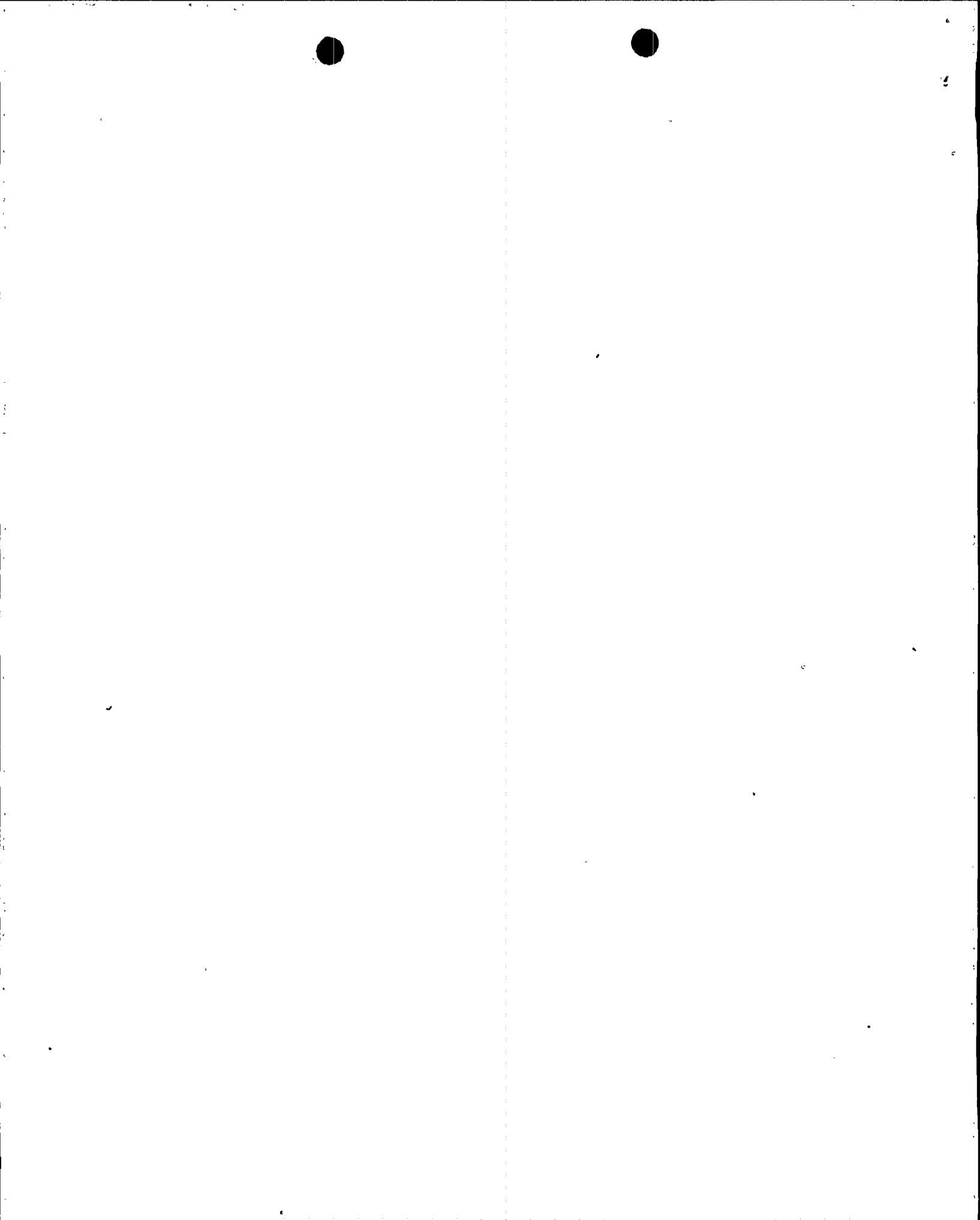
D. Operations Support Center (OSC)

- Demonstrate effective command and control of the OSC personnel by the OSC Coordinator.
- Demonstrate ability of the OSC Coordinator to effectively communicate with the TSC on team assignment and status.
- Demonstrate effective assembly and dispatch of inplant monitoring and repair teams in a timely manner.
- Demonstrate ability to implement personnel dosimetry for emergency response personnel.
- Demonstrate proper utilization and operation of self-contained breathing apparatus (SCBA) or other respiratory protection by field teams.
- Demonstrate ability to gather samples in a field setting.
- Demonstrate capability to perform contamination control, habitability surveys and maintain doses ALARA.
- Demonstrate ability of field monitoring teams to follow plume monitoring directions.



E. Emergency Operations Facility (EOF)

- Demonstrate ability to maintain awareness of plant conditions, projected trends and potential consequences.
- Demonstrate ability to notify state and county agencies within fifteen (15) minutes of an emergency declaration.
- Demonstrate ability to provide follow-up information to offsite agencies.
- Demonstrate ability to make Protective Action Recommendations (PAR's) to offsite agencies.
- Demonstrate ability to direct offsite field monitoring teams for the purposes of tracking plume passage.
- Demonstrate ability to perform onsite and offsite dose assessment and projections in a timely manner.
- Demonstrate ability of the Emergency Operations Director to coordinate onsite and offsite emergency response activities.
- Demonstrate ability to provide approved information on inplant and onsite conditions/activities for release to the media/public.





2.1.2

State of Arizona/County of Maricopa Exercise Objectives

GROUP A.

EMERGENCY CLASSIFICATION LEVELS

1. Demonstrate the ability to monitor, understand and use Emergency Classification Levels (ECL) through the appropriate implementation of emergency functions and activities corresponding to ECL's as required by the scenario. The four ECL's are: Notification of Unusual Event, Alert, Site Area Emergency and General Emergency.

MOBILIZATION OF EMERGENCY PERSONNEL

2. Demonstrate the ability to fully alert, mobilize and activate personnel for both facility and field-based emergency functions.

DIRECTION AND CONTROL

3. Demonstrate the ability to direct, coordinate and control emergency activities.

COMMUNICATIONS

4. Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.

FACILITIES EQUIPMENT AND DISPLAYS

5. Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations.

EMERGENCY WORKER EXPOSURE CONTROL

6. Demonstrate the ability to continuously monitor and control emergency worker exposure.



GROUP A. (Continued)

FIELD RADIOLOGICAL MONITORING

7. Demonstrate the appropriate equipment and procedures for determining field radiation measurements.
8. Demonstrate the appropriate equipment and procedures for the measurement of airborne radiiodine concentrations as low as  $10^{-7}$  microcuries per cc in the presence of noble gases.
9. Demonstrate the ability to obtain samples of particulate activity in the airborne plume and promptly perform laboratory analyses.

PLUME DOSE PROJECTION

10. Demonstrate the ability, within the plume exposure pathway, to project dosage to the public via plume exposure, based on plant and field data.

PLUME PROTECTIVE ACTION DECISIONMAKING

11. Demonstrate the ability to make appropriate protective action decisions, based on projected or actual dosage, EPA PAG's, availability of adequate shelter, evacuation time estimates and other relevant factors.

ALERT, NOTIFICATION AND EMERGENCY INFORMATION

12. Demonstrate the ability to initially alert the public within the 10-mile EPZ and begin dissemination of an instructional message within 15 minutes of a decision by appropriate state and/or local official(s).
13. Demonstrate the ability to coordinate the formulation and dissemination of accurate information and instructions to the public in a timely fashion after the initial alert and notification has occurred.



GROUP A. (Continued)

ALERT, NOTIFICATION AND EMERGENCY INFORMATION  
(Continued)

14. Demonstrate the ability to brief the media in an accurate, coordinated and timely manner.
15. Demonstrate the ability to establish and operate rumor control in a coordinated and timely fashion.

GROUP B.

USE OF KI

16. Demonstrate the ability to make the decision to recommend the use of KI to emergency workers and institutionalized persons, based on predetermined criteria, as well as to distribute and administer it once the decision is made, if necessitated by radioiodine releases.

IMPLEMENTATION OF PROTECTIVE ACTIONS

18. Demonstrate the ability and resources necessary to implement appropriate protective actions for the impacted permanent and transient plume EPZ population (including transit-dependant persons, special needs populations, handicapped persons and institutionalized persons).
19. Demonstrate the ability and resources necessary to implement appropriate protective actions for school children within the plume EPZ.

TRAFFIC CONTROL

20. Demonstrate the organizational ability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.



GROUP B. (Continued)

RELOCATION CENTERS (REGISTRATION, MONITORING,  
CONGREGATE CARE AND DECONTAMINATION)

21. Demonstrate the adequacy of procedures, facilities, equipment and personnel for the registration, radiological monitoring and decontamination of evacuees.
22. Demonstrate the adequacy of facilities, equipment and personnel for congregate care of evacuees.

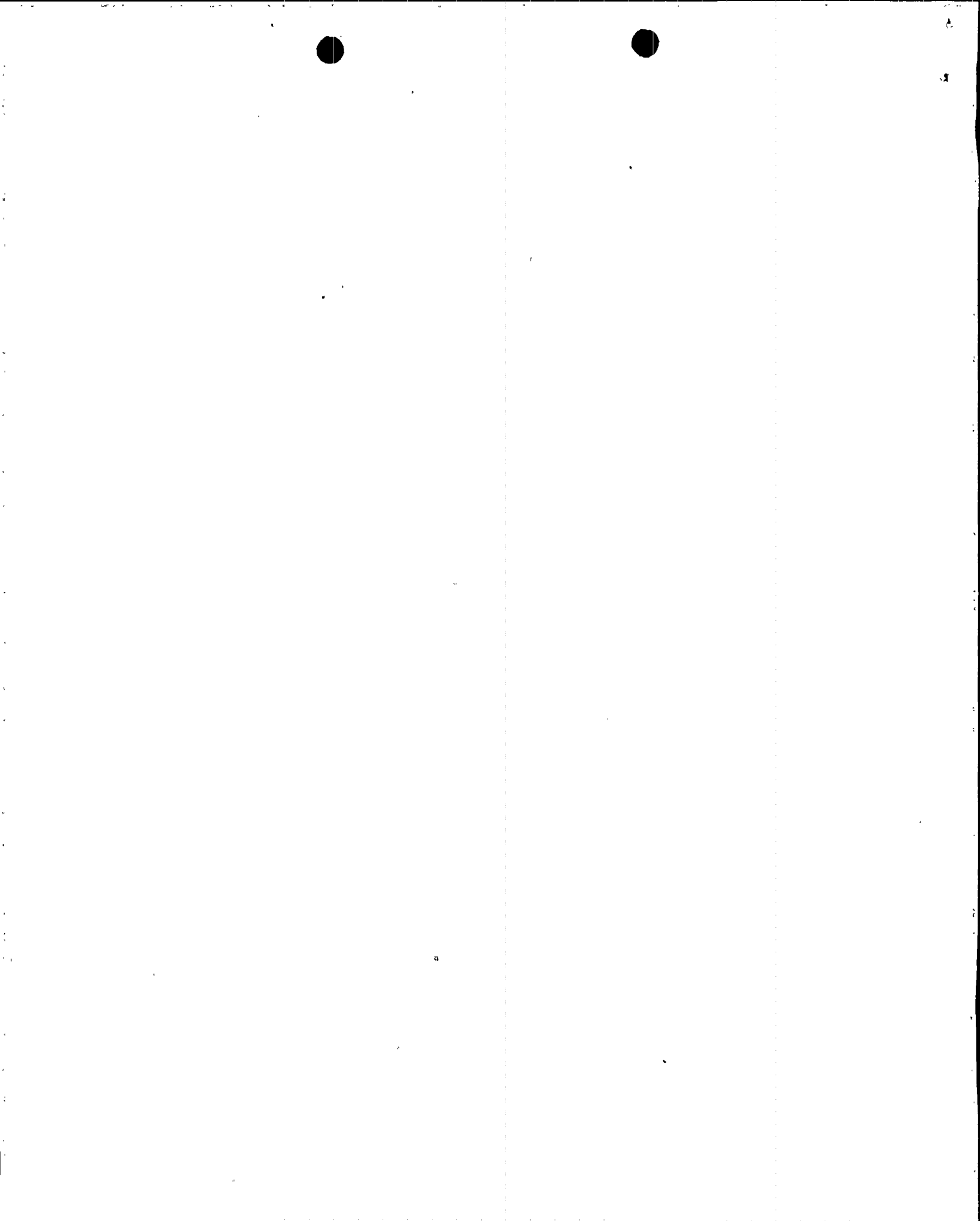
MEDICAL SERVICES (TRANSPORTATION AND FACILITIES)

23. Demonstrate the adequacy of vehicles, equipment, procedures and personnel for transporting contaminated, injured or exposed individuals.
24. Demonstrate the adequacy of medical facilities, equipment, procedures and personnel for handling contaminated, injured or exposed individuals.

GROUP C.

SUPPLEMENTARY ASSISTANCE (FEDERAL/OTHER)

26. Demonstrate the ability to identify the need for and call upon Federal and other outside support agencies' assistance.





## 2.2 Extent of Play

2.2.1 Activation of all Emergency Response Facilities (ERF's) in accordance with plans and procedures.

- ~~PVNGS UNIFIED Control Room and STSC (activities to be performed in the Simulator)~~, TSC, OSC, EOF and FNC.
- State EOC/TOC including:
  - Public Inquiry Center
  - Joint Emergency News Center (JENC)
- Maricopa County EOC
- REAT Center (ARRA Offices)
- REAT Forward Center
- Maricopa County Sheriff's Office (MCSO) On-Scene Command Post
- Reception and Care Center (1)

### 2.2.2 Response

- Use of Notification Alert Network (NAN)
- Alert government response organizations.
- Mobilize state and county response agencies.
- Deploy state and county response organization.
- Evacuation of representative resident group (25 to 30 individuals).
- Evacuation of representative resident group with special needs (approximately 2-3 individuals).
- Road Block/Access Control Points (2) demonstrate function, then secure.



2.2.2 Response (Continued)

- Radiation Field Monitoring Teams (3) utility, (3) state (1 of the state teams to be detailed for evacuee monitoring).
- Use of primary and backup communications links as required by the exercise.
- 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.
- Use of the Offsite Siren Activation System will be SIMULATED. Siren sounding will not occur, EBS messages will be generated and distributed, but not broadcast. The warnings will be disseminated among the exercise participants through the emergency communications system and to the representative resident group through a supplemental warning team for the evacuation.
- Onsite Evacuation, Assembly and Accountability will be simulated.
- One (1) of the onsite monitoring teams will demonstrate the donning and removal of protective clothing before going into the field. All other teams will simulate the use of protective clothing.
- Inplant teams will don protective clothing as appropriate to the scenario.
- Two (2) simulated contaminated injured individuals will be transported offsite for treatment at Maryvale Samaritan Medical Center.
- The JENC staff will produce coordinated press releases and conduct oral briefing of actual and simulated media representatives.

