

Exercise Objectives And Extent Of Play

1. Objectives

1.1 Arizona Public Service (APS)/Palo Verde Nuclear Generating Station (PVNGS)

A. General Objectives

1. Demonstrate the ability to assess plant conditions.
2. Demonstrate the ability to classify the event per EPIP-02.
3. Demonstrate the ability to identify projected trends and potential consequences.
4. Demonstrate the ability to alert and notify the PVNGS emergency response personnel in a timely manner.
5. Demonstrate the ability to mobilize the PVNGS emergency response personnel within the time frames specified in the Emergency Plan.
6. Demonstrate the ability of PVNGS to notify State and county agencies within 15 minutes of emergency declaration.
7. Demonstrate the ability to determine actual or potential offsite radiological hazards.
8. Demonstrate the ability to make timely protective action recommendations to offsite agencies.
9. Demonstrate the ability to track plume passage.
10. Demonstrate the proper use of radiation monitoring instruments and dosimetry.
11. Demonstrate the proper use of sampling equipment and contamination control techniques.
12. Demonstrate the ability to draw and analyze a PASS sample during simulated adverse radiological conditions.
13. Demonstrate the ability to respond effectively to a contaminated injured individual within the plant.
14. Demonstrate the ability to coordinate with ambulance and hospital personnel for handling, transport, and treatment of a contaminated injured individual.

1. Objectives (Cont)

15. Demonstrate the ability to effectively respond to a security event.
16. Demonstrate the ability to assemble onsite evacuees at an offsite assembly area.

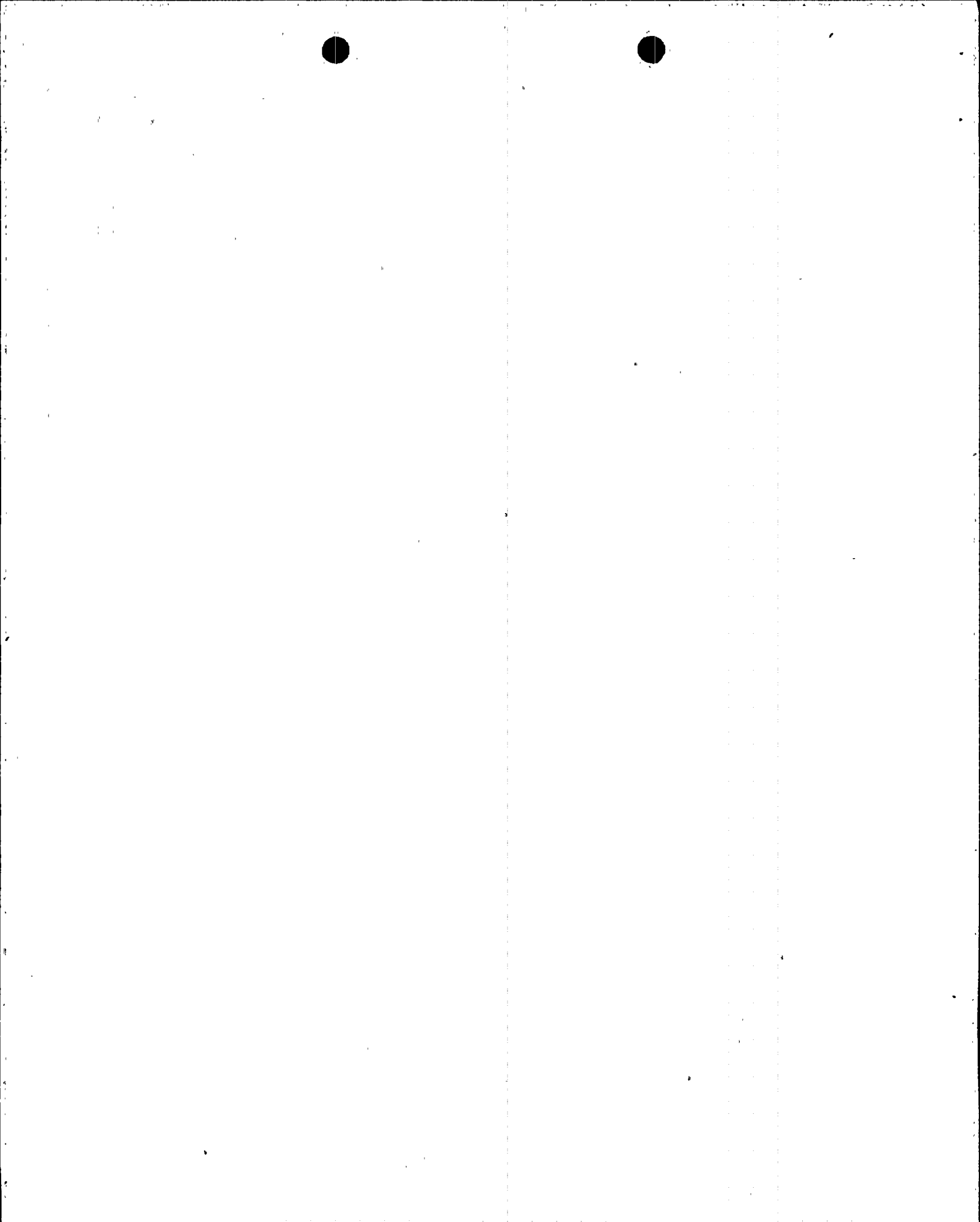
B. Facility Objectives

1. Emergency Operations Facility (EOF)

- a. Demonstrate the adequacy of the Emergency Plan and Emergency Plan Implementing Procedures both in terms of management control and workability of the procedures for the EOF.
- b. Demonstrate the adequacy of communication links between CR/STSC, TSC, government emergency facilities, field teams and the EOF.
- c. Demonstrate the effectiveness and availability of appropriate emergency equipment and supplies.
- d. Demonstrate the adequacy of security access control.
- e. Demonstrate activation and staffing of the EOF in a timely fashion.
- f. Demonstrate the functional adequacy of the EOF.

2. Technical Support Center (TSC)

- a. Demonstrate the adequacy of the Emergency Plan and Emergency Plan Implementing Procedures both in terms of management control and workability of the procedures for the TSC.
- b. Demonstrate the adequacy of communication between the OSC, EOF, inplant response teams, and the TSC.
- c. Demonstrate the effectiveness and availability of appropriate emergency equipment and supplies.
- d. Demonstrate the adequacy of security access control.
- e. Demonstrate activation and staffing of the TSC in a timely fashion.
- f. Demonstrate the functional adequacy of the TSC.



1. Objectives (Cont)

3. Control Room/Satellite Technical Support Center
(CR/STSC)

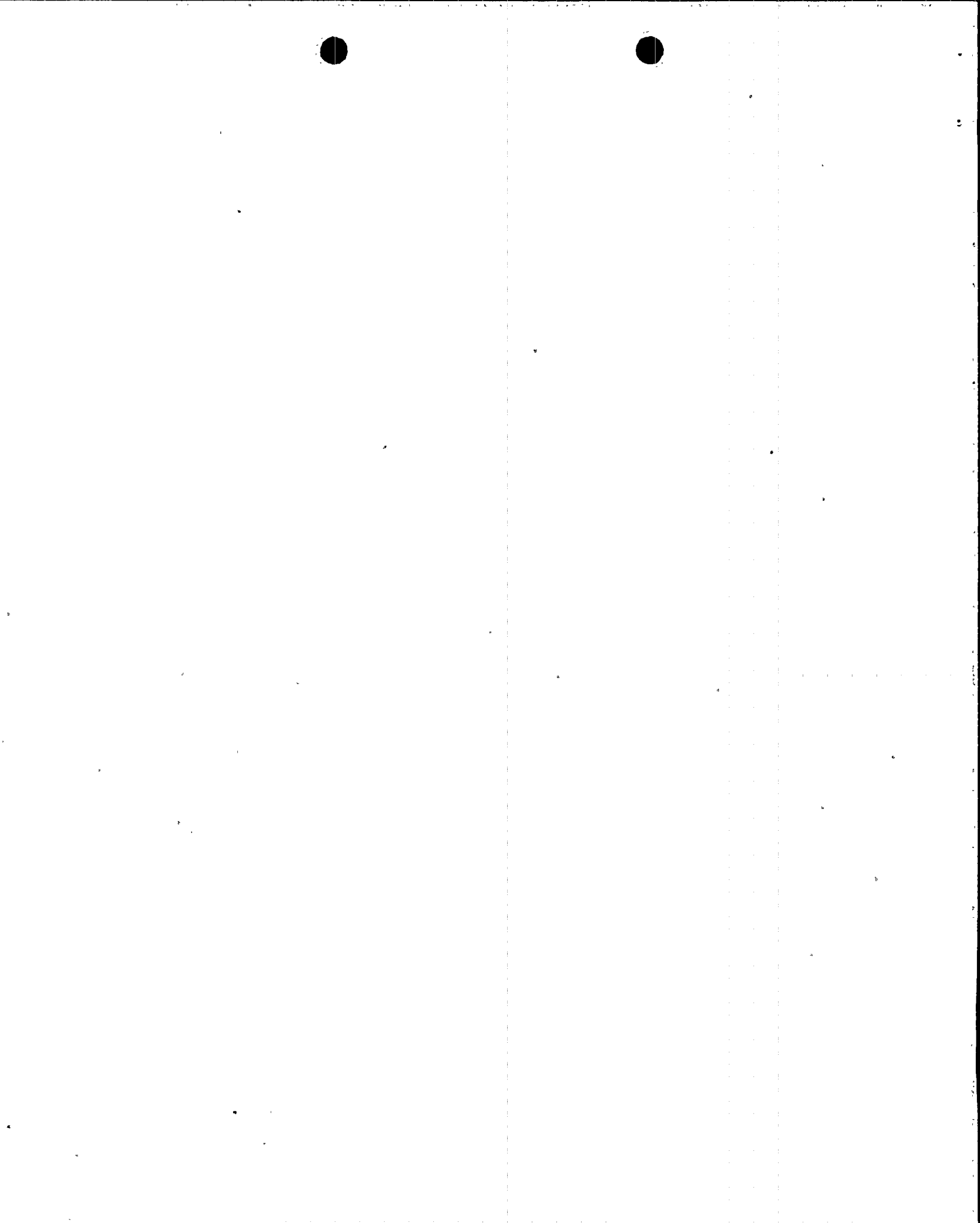
- a. Demonstrate the adequacy of the Emergency Plan and Emergency Plan Implementing Procedures both in terms of management control and workability of the procedures for the CR/STSC.
- b. Demonstrate the adequacy of communication between the OSC, EOF, inplant response teams, and the CR/STSC.
- c. Demonstrate the effectiveness and availability of appropriate emergency equipment and supplies.
- d. Demonstrate activation and staffing of the STSC in a timely fashion.
- e. Demonstrate the functional adequacy of the STSC.

4. Operations Support Center (OSC)

- a. Demonstrate the adequacy of the Emergency Plan and Emergency Plan Implementing Procedures both in terms of management control and workability of the procedures for the OSC.
- b. Demonstrate the adequacy of communication links between inplant teams, the TSC/STSC and the OSC.
- c. Demonstrate the effectiveness and availability of appropriate emergency equipment and supplies.
- d. Demonstrate activation and staffing of the OSC in a timely fashion.
- e. Demonstrate the functional adequacy of the OSC.

5. Joint Emergency News Center (JENC)

- a. Demonstrate the adequacy of the Emergency Plan and the Joint Public Information Procedures both in terms of management control and workability of the procedures for the JENC.
- b. Demonstrate the adequacy of communication links between government emergency facilities, the utility's emergency facilities and the JENC.



1. Objectives (Cont)

- c. Demonstrate the effectiveness and availability of appropriate emergency equipment and supplies.
- d. Demonstrate the adequacy of security access control.
- e. Demonstrate activation and staffing of the JENC in a timely fashion.
- f. Demonstrate the functional adequacy of the JENC.

1.2 Arizona/Maricopa County

GROUP A - Core Objectives

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 ECLs as required by the scenario. The four ECLs 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

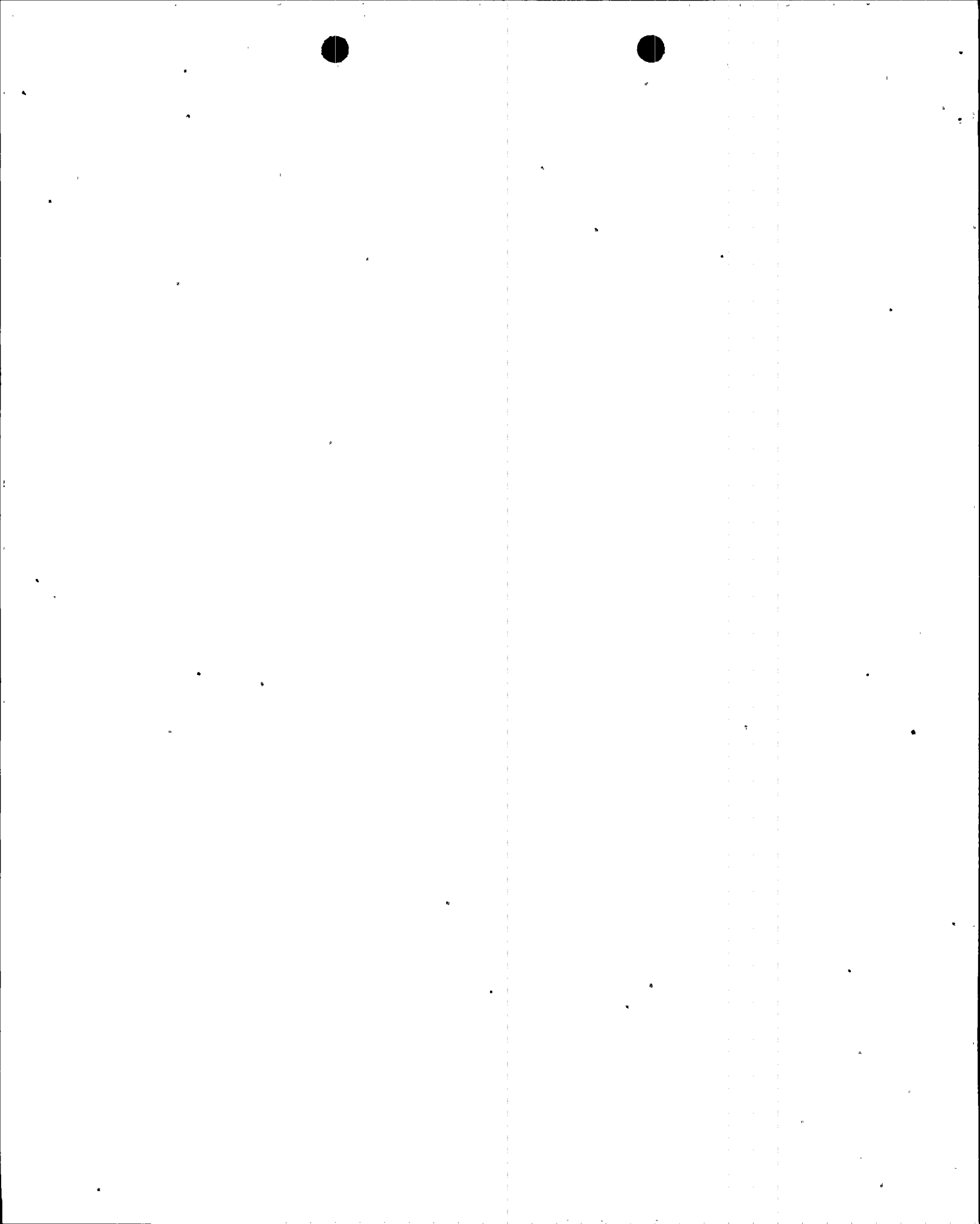
- 4. Demonstrate the ability to communicate with all appropriate locations, organizations and field personnel.

Facilities Equipment And Displays

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

Emergency Worker Exposure Control

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



1. Objectives (Cont)

Field Radiological Monitoring - Ambient Radiation Monitoring

7. Demonstrate the appropriate equipment and procedures for determining field radiation measurements.

Field Radiological Monitoring - Airborne Iodine Monitoring

8. Demonstrate the appropriate equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} microcurie per cc in the presence of noble gasses.

Field Radiological Monitoring - Particulate Activity

9. Demonstrate the ability to obtain samples of particulate activity in the airborne plume and promptly perform laboratory analyses.

Plume Dose Projection

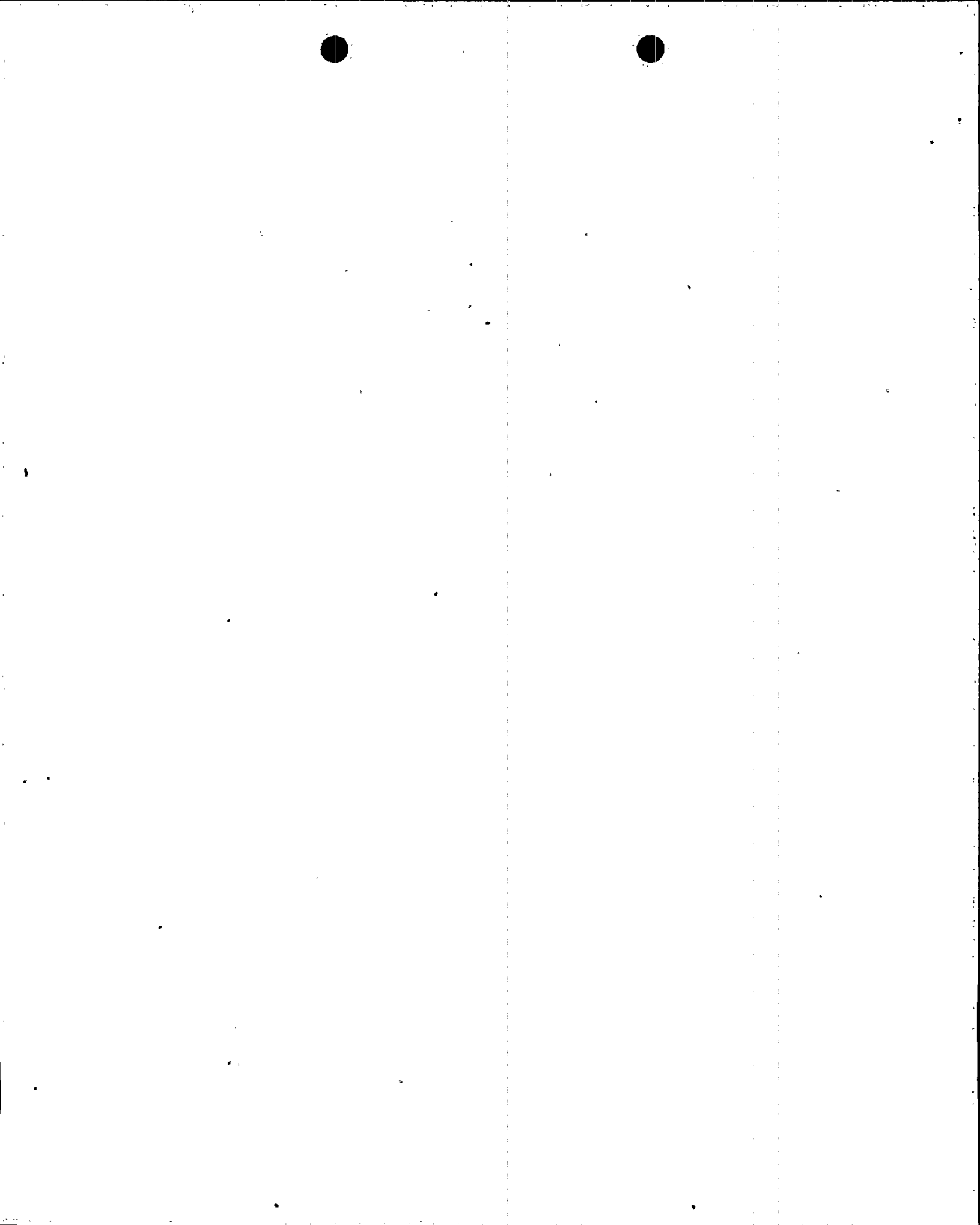
10. Demonstrate the ability, within the plume exposure pathway, to project dosage to the public via plume exposure, based on plant and field data.

Plume Protective Action Decisionmaking

11. Demonstrate the ability to make appropriate protective action decisions, based on projected or actual dosage, EPA PAGs, 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.
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.



1. Objectives (Cont)

GROUP B - Scenario Dependent Objectives

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-dependent persons, special needs populations, handicapped persons and institutionalized persons).

Implementation Of Protective Actions - Evacuation Of Schools

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.

Relocation Centers - Registration, Monitoring & Decontamination

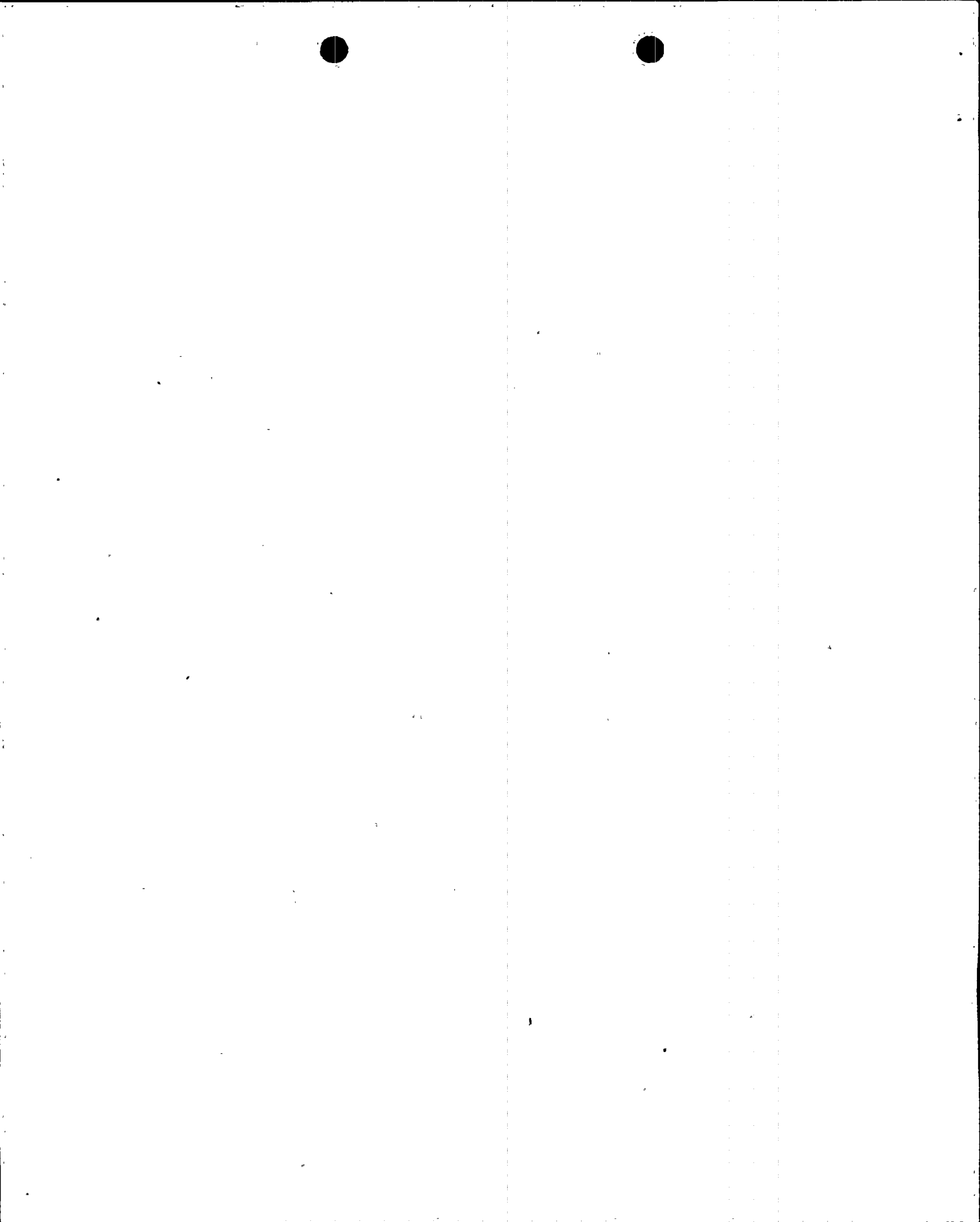
21. Demonstrate the adequacy of procedures, facilities, equipment and personnel for the registration, radiological monitoring and decontamination of evacuees.

Relocation Centers - Congregate Care

22. Demonstrate the adequacy of facilities, equipment and personnel for congregate care of evacuees.

Medical Services - Transportation

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



1. Objectives (Cont)

Medical Services - Facilities

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

Decontamination

25. Demonstrate the adequacy of facilities, equipment, supplies, procedures and personnel for decontamination of emergency workers, equipment and vehicles and for waste disposal.

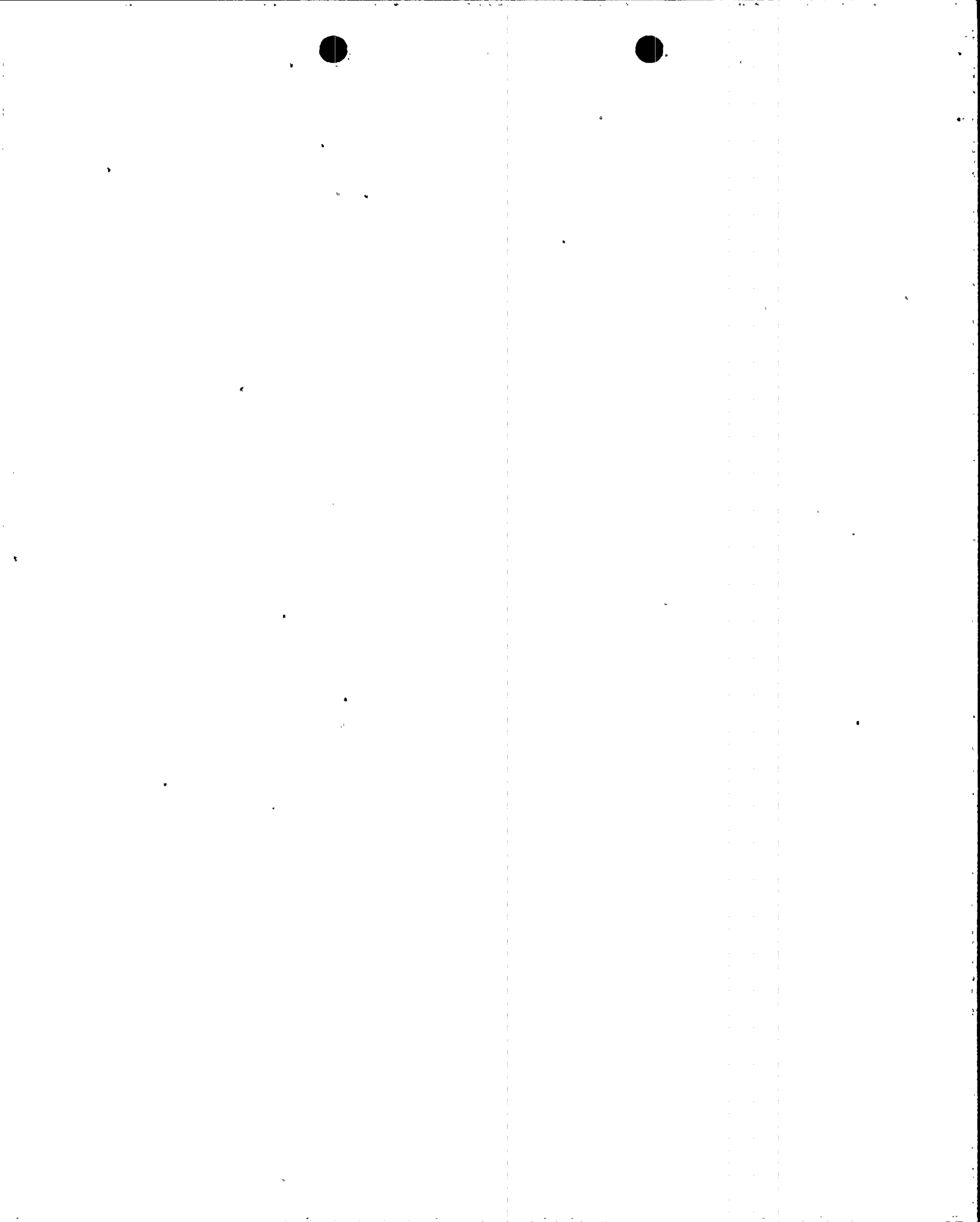
Group C - Other Objectives Demonstrated Every Six Years

Supplementary Assistance (Federal/Other)

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

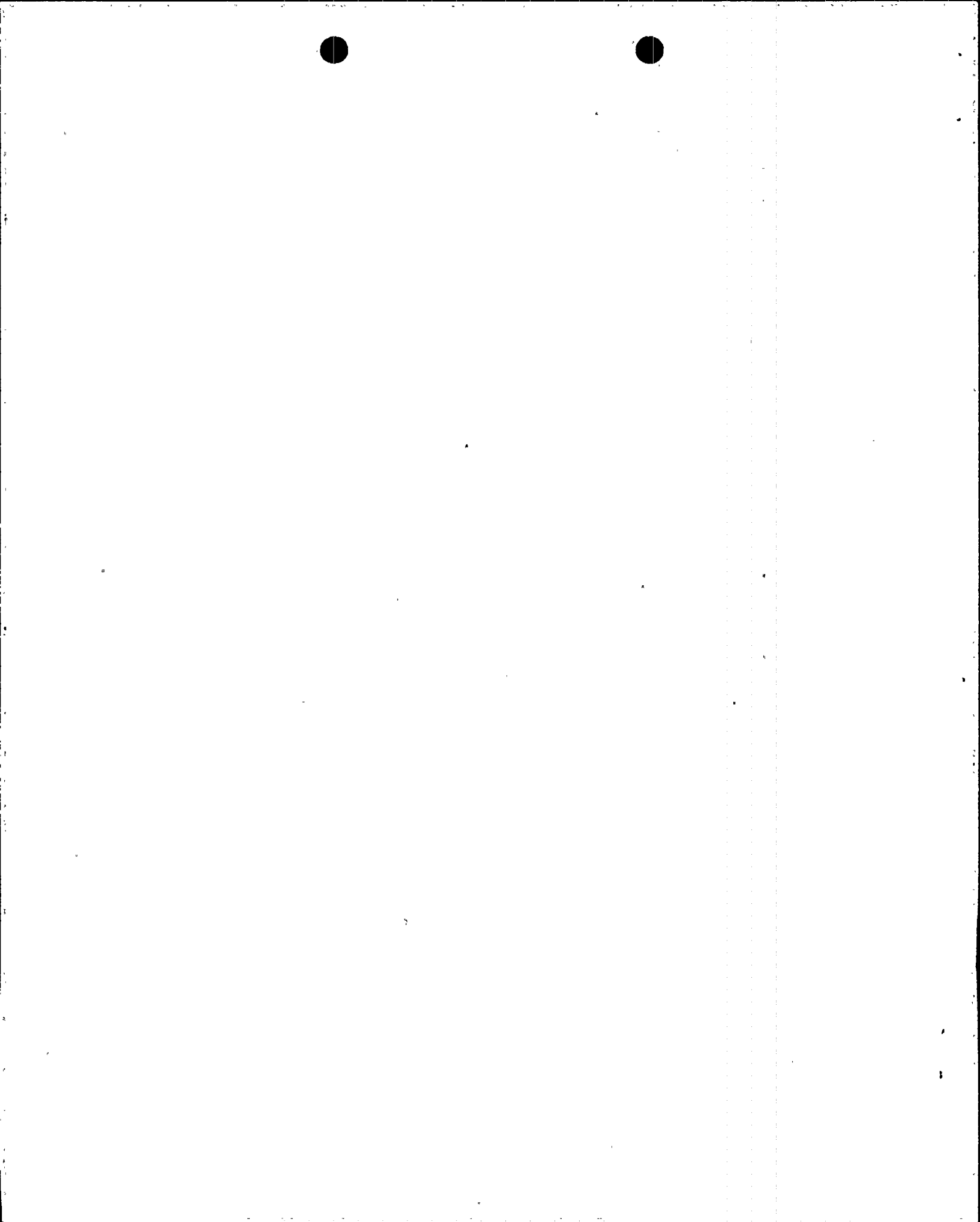
1.3 Joint Objectives (APS/PVNGS, State of Arizona and County of Maricopa)

1. Demonstrate timely coordination and release of information to the media through coordinated action by State, county, and utility elements.
2. Demonstrate that emergency response organizations can activate and staff direction and control facilities in a timely fashion.
3. Demonstrate the functional adequacy of emergency facilities.
4. Demonstrate the adequacy of communication links between government emergency facilities, field teams, and the utility's emergency facilities.
5. Demonstrate the ability to coordinate protective actions in the plume exposure pathway EPZ.
6. Demonstrate the adequacy of communications with the public via the news media.
7. Demonstrate the adequacy of communications with the public via the Emergency Broadcast System (EBS).



1. Objectives (Cont)

8. Demonstrate the adequacy of Communications with the public via rumor control.
9. Demonstrate the ability to implement personnel dosimetry for both utility and government emergency response personnel.
10. Demonstrate the ability to perform onsite and offsite dose assessment in a timely manner.
11. Demonstrate remote activation and operation of the offsite siren alerting system.



2. Extent Of Play

2.1 Facility Activation

A. Utility Response

1. Unit 1 Control Room

The Control Room will not be utilized. Instead, an area within the STSC will be used to simulate the Control Room. An off-shift Control Room staff will be utilized to represent the on-shift plant operator organization.

2. Unit 1 Satellite Technical Support Center (STSC)

The STSC will be fully activated.

3. Technical Support Center (TSC)

The TSC will be fully activated.

4. Operations Support Center (OSC)

The OSC will be fully activated. In addition, due to the simulated plant conditions of the scenario, the Unit 1 OSC will be forced to be abandoned and per procedures, the back-up OSC at Unit 2 activated.

5. Emergency Operations Facility (EOF)

The EOF will be fully activated.

6. Forward News Center (FNC)

The FNC will be fully activated during its participation at the Unusual Event and Alert classification levels.

7. Corporate Emergency Center (CEC)

The CEC will not be activated. It will be simulated by a telephone control cell.

B. State Response

1. State Emergency Operations Center (SEOC)

The SEOC will be fully activated, including; the Technical Operations Center, the Public Inquiry Center and the Joint Emergency News Center.

2. Extent Of Play (Cont)

2. Maricopa County Emergency Operations Center (MCEOC)

The MCEOC will be fully activated.

3. Radiological Emergency Assessment Team (REAT) Center

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

4. REAT Forward

The REAT Forward will be fully activated.

5. Maricopa County Sheriff's Office (MCSO) On-Scene Command Post

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

6. Reception and Care Center (RCC)

One RCC will be fully staffed to demonstrate evacuee reception and care using simulated evacuees.

C. Federal Response

1. Nuclear Regulatory Commission (NRC)

The NRC will partially activate and respond. Personnel integration into the PVNGS emergency facilities and organization will occur.

2. Federal Emergency Management Agency (FEMA)

The FEMA response will be simulated.

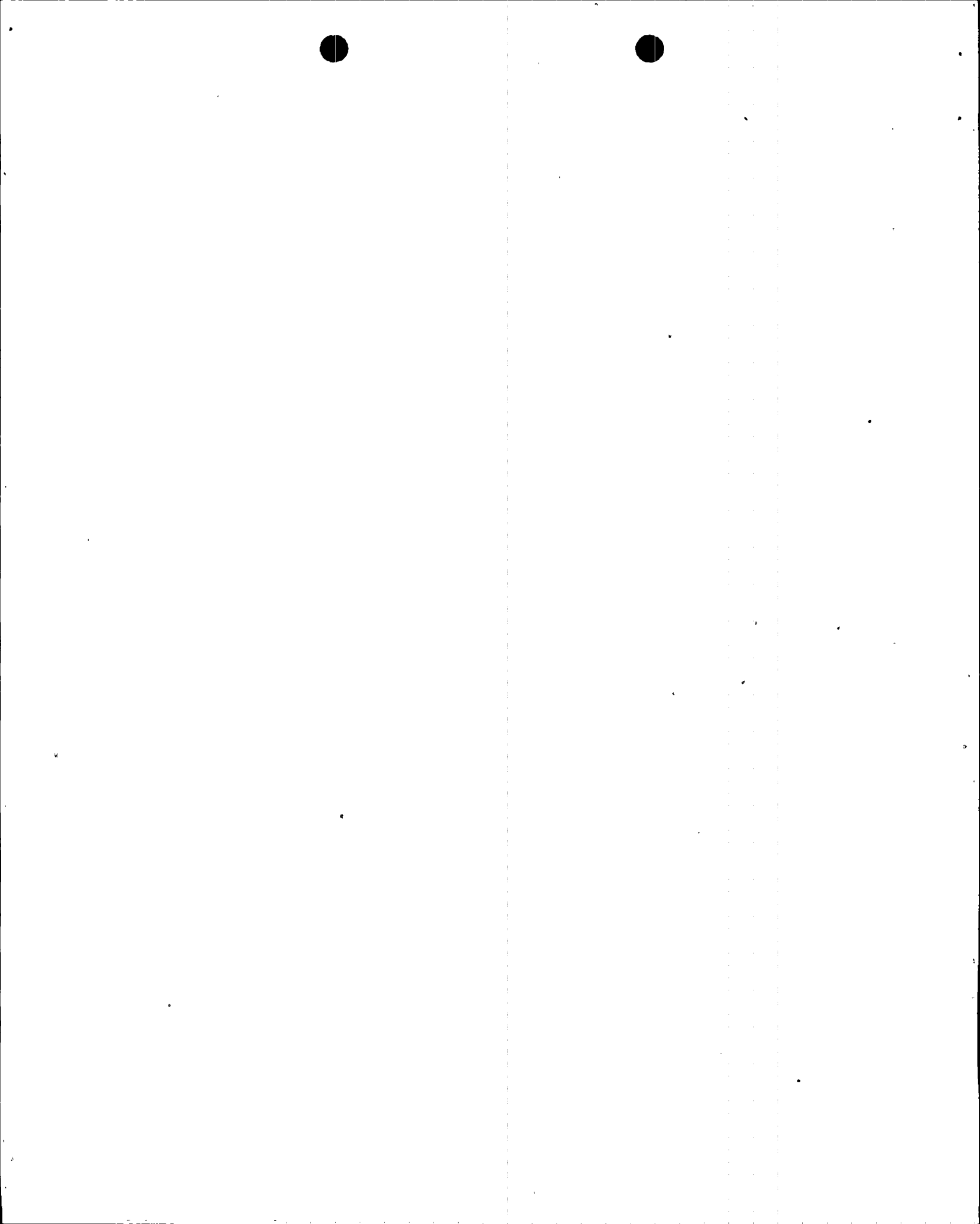
2.2 General Response Activities

A. The Notification Alert Network (NAN) will be utilized.

B. Government response organizations will be alerted.

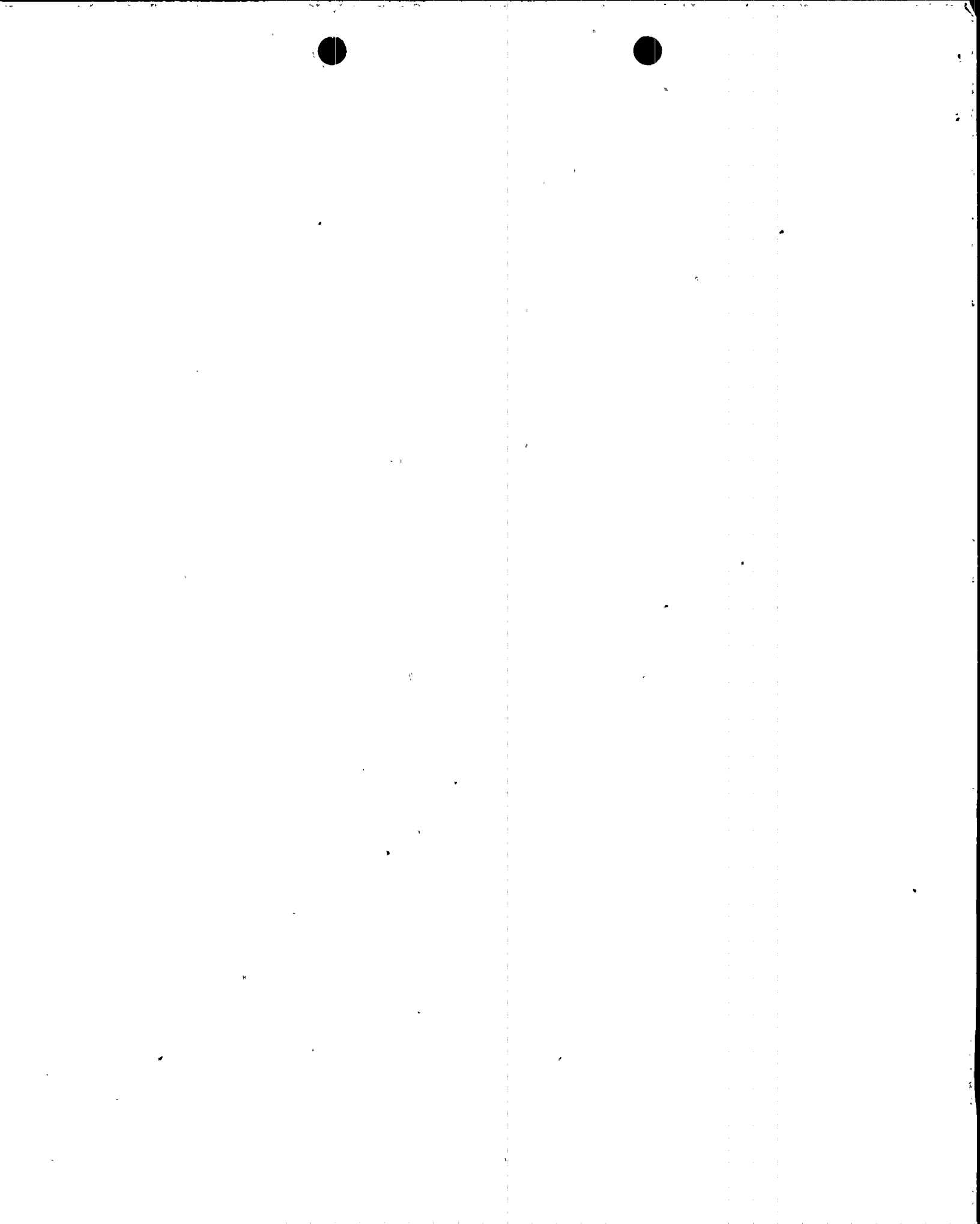
C. State, County, and volunteer response organizations will be mobilized.

D. State and volunteer County response organization deployment will occur.



2. Extent Of Play (Cont)

- E. An evacuation of a representative resident group (20 to 30 individuals) will occur.
- F. An evacuation of a representative resident group with special needs (approximately 4-6 individuals) will occur.
- G. Road Blocks/Access Control Points (2 evaluated/2 constructive) will be implemented to demonstrate this function and then secured.
- H. Radiological Field Assessment Teams will be utilized. Three (3) from the utility and eight (8) from the State. Three of the State teams will be detailed for evacuee monitoring.
- I. The onsite monitoring teams will don protective clothing as appropriate to the scenario. All offsite teams will simulate the use of protective clothing and equipment.
- J. In-plant teams will don protective clothing as appropriate to the scenario.
- K. Primary and back-up communications systems will be utilized as required by the exercise.
- L. 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.
- M. Use of the Offsite Siren Activation System will be simulated. Siren sounding will not occur. Emergency Broadcast System (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.
- N. Onsite assembly and accountability will be simulated. However, onsite evacuation to an offsite assembly area will be completed by a representative group of 20-30 individuals (simulating evacuees).
- O. A simulated contaminated injured individual will be treated onsite and transported offsite for treatment at Good Samaritan Hospital by AirEvac helicopter.
- P. The in-plant Post Accident Sampling System (PASS) will be utilized to demonstrate the utilities ability to draw a primary system chemistry sample during accident conditions.



2. Extent Of Play (Cont)

- Q. A simulated plant intruder will be a part of the scenario sequence of events in order to demonstrate the capability of the onsite security force to mitigate a potential breach of plant security.
- R. The JENC staff will produce coordinated press releases and conduct oral briefings to actual and simulated media personnel.
- S. The JENC staff will conduct a minimum of one oral briefing from an alternate media briefing facility (Building 101, Russell Auditorium).
- T. Decontamination of emergency personnel and vehicles at REAT Forward will be prestaged and demonstrated at completion of the exercise scenario. No physical showering of individuals will be conducted, but all other aspects will be accomplished. Physical decontamination of one vehicle will be simulated.
- U. Monitoring of evacuees will be conducted at the Reception and Care Center (RCC) for a minimum of one hour. Monitoring of one vehicle will be accomplished. Decontamination of the vehicle will be simulated. All RCC activities except the representative resident group and special needs group (scenario dependent) will be prestaged and accomplished outside scenario time lines.

