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 AUTH. NAME      AUTHOR AFFILIATION  
 SWANK, D.A.      Washington Public Power Supply System  
 RECIP. NAME      RECIPIENT AFFILIATION  
 MURRAY, B.      Region 4 (Post 820201)

SUBJECT: Forwards Emergency Preparedness Exercise Objectives & Limitations for exercise to be conducted 960925.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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June 14, 1996  
G02-96-121

Docket No. 50-397

Mr. Blaine Murray, Chief  
Plant Support Branch  
U. S. Nuclear Regulatory Commission, Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011-8064

Dear Mr. Murray:

Subject: **WNP-2 OPERATING LICENSE NPF-21  
1996 EMERGENCY PREPAREDNESS EXERCISE  
OBJECTIVES AND LIMITATIONS**

In accordance with 10 CFR 50.47(b)(14), the Supply System hereby submits the Objectives and Limitations for the WNP-2 Exercise to be conducted September 25, 1996.

Should you have any questions or desire additional information regarding this matter, please contact me or Mr. George J. Reed at (509) 377-8568.

Respectfully,



D. A. Swank (Mail Drop PE20)  
Manager, Regulatory Affairs

Enclosure

cc: LE Moore, FEMA Region X  
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WASHINGTON NUCLEAR PROJECT 2  
1996 EVALUATED EXERCISE

1.0 SCOPE AND OBJECTIVES

1.1 SCOPE

The 1996 WNP-2 Emergency Preparedness Exercise, to be conducted on September 25, 1996, will test and provide the opportunity to evaluate the emergency plans and procedures of the Supply System (SS), the States of Washington and Oregon, and Benton and Franklin Counties in Washington. It will test the ability of participants to assess and respond to emergency conditions and coordinate activities to protect the health and safety of individuals in the vicinity of WNP-2 from the consequences of a radiological incident at the plant. The Exercise has been developed to support demonstration of the capabilities of the SS Emergency Response Organization and will include full activation and participation of all SS emergency facilities, including at least minimum staffing of personnel.

The Exercise will be used to evaluate the ability of the onsite response personnel to assess and mitigate the emergency situations at the plant and to take actions to assist local and state government organizations in mitigating the radiological consequences to persons in the vicinity of the plant. The exercise also will be used to evaluate the ability of state and local response organizations to protect the public. In addition, the Exercise will provide SS the opportunity to assess the effectiveness of training improvements and modifications made to the WNP-2 Emergency Plan and Procedures since the last Exercise.

Emergency response actions during the Evaluated Exercise will include:

- prompt recognition and accurate classification of emergency conditions;
- assessment of onsite/offsite radiological consequences, and activities to minimize the offsite consequences;
- notification and mobilization of the emergency response organizations;
- implementation of in-plant corrective actions;
- activation/operation of emergency response facilities and equipment;
- preparation of adequate records to document decisions made and actions taken;
- formulation and recommendation of protective actions for personnel within the area; and
- termination of the emergency condition, including a discussion of the transition into recovery.

Specific objectives to be demonstrated by the SS WNP-2 Emergency Response Organization and Facilities and the Offsite Agencies are identified in the following section.

1.2 OBJECTIVES/EXTENT OF PLAY

The Exercise objectives identified for participants have been compiled based on the requirements delineated in 10CFR50 and

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44CFR350, as well as guidance found in NUREG 0654/FEMA REP-1 and other regulatory documents as identified in the Drill And Exercise Manual For WNP-2.

1.2.1 Onsite Objectives

Note: The number associated with each objective correlates to the WNP-2 Six Year Plan.

1. Conduct an exercise of the WNP-2 Emergency Plan.
2. Provide an opportunity for the state and local organizations to participate in an exercise annually.
3. Prepare an exercise package to meet minimum standards of the reference in NUREG-0654.
4. Conduct a critique of the exercise.
5. Establish means to ensure completion of corrective actions.
6. Involve Federal, State, County, EP Response Personnel and Agencies in a joint exercise at least once every two years.
8. Conduct the exercise in various weather conditions (during different seasons).
9. Demonstrate the direction of the emergency organization and implementation of the emergency plan implementation procedures.
10. Demonstrate the transfer of the emergency director duties.
11. Demonstrate the ability for timely activation and staffing of the emergency facilities.
12. Demonstrate the ability to control access to emergency facilities.
13. Demonstrate the ability of emergency response organization personnel to augment and support the plant staff.
14. Demonstrate the availability of outside organizations who can be relied upon in an emergency to provide assistance.
15. Demonstrate the capability of a central point for the receipt and analysis of all field monitoring data and coordination of sample media.
17. Demonstrate the availability and dispatch of a technical liaison to offsite governmental EOC's.
18. Demonstrate the capability for continuous (24hr.) operations for a protracted period for each principal organization.

Limitations: Second shift will be identified and individuals contacted. No shift change will be demonstrated.

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19. Demonstrate the ability for 24 hour per day manning of communication links.
20. Demonstrate the capability for staff augmentation in a timely manner (staff augmentation drill requirement).
21. Demonstrate the ability to assess the incident conditions.
22. Demonstrate the ability to recognize emergency action levels (EALs) and properly classify the incident.
23. Demonstrate the ability to notify key officials in the emergency organization, via notification system within 15 minutes of classification. (plant, state, county)
24. Demonstrate the ability to notify the NRC of any emergency classification within one hour of the occurrence.
25. Demonstrate the capability to notify and/or activate emergency personnel in each response organization.
26. Demonstrate the ability to develop and send an initial emergency message for offsite notification.
27. Demonstrate the ability to develop and send follow up messages for information for offsite authorities.
28. Demonstrate the communications capability among the Control Room, TSC, and EOF; and WNP-2, state, county and field teams.
29. Demonstrate back-up communications capabilities.
30. Demonstrate the ability to develop a legitimate, informative, and clearly understand message to be sent to state and county officials who make decisions to activate the alert and notification system.
31. Demonstrate the communications capability with state and local organizations within the plume exposure EPZ.
32. Demonstrate the communications capability with federal emergency response organization and the state of Oregon in the Ingestion EPZ.
33. Demonstrate the communications capability from the Control Room, Technical Support Center, Emergency Operation Facility with the NRC Headquarters.
34. Demonstrate the communications capability with fixed and mobile medical support facilities.  
  
Limitation: Hanford ambulance will be contacted and respond. No hospital activation will be conducted. Play will terminate when the ambulance leaves site with the victim.
35. Demonstrate the methods and techniques for determining the source term of releases or potential releases of radioactive material within plant systems.

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- 36. Demonstrate the methods and techniques for determining the magnitude of the releases of radioactive materials based on plant system parameters and effluent monitors.
- 37. Demonstrate the ability to estimate integrated dose from projected and actual dose rates and to compare these estimates with the PAG's.
- 38. Demonstrate the ability to implement exposure guidelines.
- 39. Demonstrate the ability to continuously monitor and control emergency worker exposure.
- 50. Demonstrate the capability for onsite and offsite radiological monitoring, to include collection and analysis.
- 53. Demonstrate the ability to recommend protective actions to appropriate offsite authorities, bases of recommendations to include consideration of protection afforded by sheltering, as well as evacuation time estimates.
- 54. Demonstrate the operation of the joint public information center and the availability of space for the media.
- 55. Demonstrate the ability to brief the media in a clear, accurate and timely manner.
- 57. Demonstrate the ability to warn or advise individuals onsite in owner controlled areas.
- 63. Demonstrate the capability for onsite first aid.
- 64. Demonstrate that the provisions are available for the evaluation of radiation exposure of, and radiation uptake in a radiological accident victim.
- 65. Demonstrate preliminary discussions of re-entry and recovery capabilities and availability of procedures.

1.2.2 Offsite Objectives

- 1. Mobilization of Emergency Personnel - 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.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: Some equipment may be set up prior to initial notice. Washington State responders to Richland may be prestaged. Security personnel for Benton/Franklin Counties will be prestaged at the EOC.

ARCA: OR 94-1 EOC activation was not in accordance with plan.

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2. Facilities - Equipment, Displays, and Work Environment - Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: The Oregon sampling team staging area will not be activated, however, the field team will be directed there for informational purposes.

Benton/Franklin County will not demonstrate the backup power. Security of the EOC will be terminated after drill players have arrived and the function has been evaluated.

3. Direction and Control - Demonstrate the capability to direct and control emergency operations.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: In the event of an actual emergency, exercise direction and control will be terminated.

ARCA: WA 94-1 EOC/WIC Issue

WA 94-2 Demonstrate correct use of information and knowledge of processes for issuing procedure corrections.

4. Communications - Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: A minimum of one message with each organization will be demonstrated. Umitilla and Morrow Counties will take part for training only.

5. Emergency Worker Exposure Control - Demonstrate the ability to continuously monitor and control radiation exposure to emergency workers.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: One school from the EPZ will be evaluated. Any use of KI will be simulated.



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ARCA: WA 94-4 Dosimetry issuance/return  
process.  
WA 94-5 Labeling of dosimeters  
B/F 92-21,24 Bus driver not familiar with  
turnback value nor the availability of KI.  
OR 94-2 Failure of Oregon EOF  
representatives to wear dosimetry.

6. Field Radiological Monitoring - Ambient Radiation  
Monitoring - Demonstrate the appropriate use of  
equipment and procedures for determining field radiation  
measurements.

Applies to: Washington

Limitations: WA. will inventory field team kits in  
advance of exercise.

7. Plume Dose Projection - Demonstrate the capability to  
develop dose projections and protective action  
recommendations regarding evacuation and sheltering.

Applies to: Washington

Limitations: None.

8. Field Radiological Monitoring - Airborne Radioiodine and  
Particulate Activity Monitoring - Demonstrate the  
appropriate use of equipment and procedures for the  
measurement of airborne radioiodine concentrations as  
low as  $10^{-7}$  (0.0000001) microcuries per cubic centimeter  
in the presence of noble gases and obtain samples of  
particulate activity in the airborne plume.

Applies to: Washington  
Oregon

Limitations: None.

9. Plume Protective Action Decision Making - Demonstrate  
the capability to make timely protective action  
decisions.

Applies to: Washington  
Benton/Franklin County

Limitations: None.

ARCE: S91-4 PAR issue relative plume protective  
actions.

10. Alert and Notification - 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.

Applies to: Washington  
Benton/Franklin County

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Limitations: Sirens and tone alert radios will not be activated. EBS message transmission will be simulated.

11. Public Instructions and Emergency Information - Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: Washington and Oregon personnel will be prestaged in Richland.

ARCA: WA 94-7 Log keeping and briefing of WA PIO.

B/F 94-11 Incorrect information in EBS messages.

12. Emergency Information - Media - Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: Washington will provide four people for the JIC. Oregon will provide at least one representative to the JIC.

ARCA: WA 94-8 Inaccurate information in news release.

WA 94-10 Not all Washington news releases were disseminated at the JIC.

OR 94-5 Processing of news releases.

OR 94-6 Inaccurate news release.

13. Emergency Information - Rumor Control - Demonstrate the capability to establish and operate rumor control in a coordinated and timely matter.

Applies to: Washington  
Oregon  
Benton/Franklin County

Limitations: Washington and Oregon rumor control phone teams will not participate from the JIC.

ARCA: WA 94-11 Clarification on handling of calls.

OR 94-7 Current information was not always provided to callers.

OR 94-8 Inadequate log maintenance by rumor control staff.

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14. Implementation of Protective actions - Use of KI for Emergency Workers, Institutionalized Individuals, and the General Public - 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.
- Applies to: Washington  
Benton/Franklin County
- Limitations: KI ingestion will not occur.
- ARCA: WA 94-12 KI decision documentation incomplete.
- B/F 92-21,24 Bus driver not familiar with turnback value nor the availability of KI.
15. Implementation of Protective Actions - Special Populations - Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations.
- Applies to: Benton/Franklin County
- Limitations: No transportation resources will be dispatched.
16. Implementation of Protective Actions - Schools - Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone (EPZ).
- Applies to: Benton/Franklin County
- Limitations: Notification of parents will be simulated. Transportation of students will be simulated.
- ARCA: B/F 92-21,24 Bus driver not familiar with turn back value nor the availability of KI.
17. Traffic and Access Control - Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas.
- Applies to: Benton/Franklin County
- Limitations: Only one road block will be established.
23. Supplementary Assistance (Federal/Other) - Demonstrate the capability to identify the need for external assistance and to request such assistance from federal or other support organizations.
- Applies to: Benton/Franklin County  
Washington  
Oregon
- Limitations: No actual response will be required.



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30. Demonstrate the capability to maintain staffing on a continuous, 24 hour basis through an actual shift change.

Applies to: Oregon

Limitations: Rumor control at Oregon ECC only.

ARCA: OR 94-11 Inadequate rumor control shift change.

