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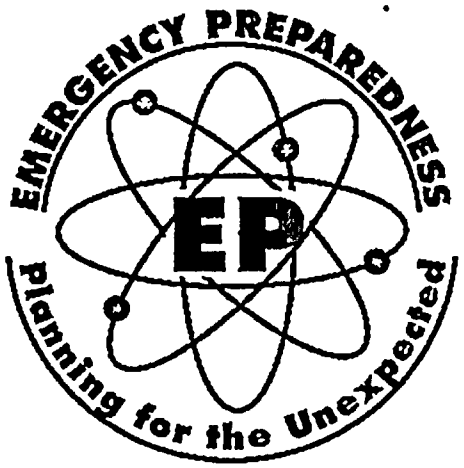

EXERCISE '91

EXERCISE DIRECTOR:

JIM LANDON

EXERCISE COORDINATORS:

JIM LANDON - *Scenario*
VERN SHOCKLEY - *Health Physics Data*
TERRY CHRISLER - *Health Physics Data Assistant*

SCENARIO AUTHORS:

Jim Landon - *Scenario Basis*
Dean Gano - *Scenario Script & Situational Data*
Mark Westergren - *Initial Conditions & Messages*
Vern Shockley - *Health Physics Basis, Meteorology, Radiological & Contamination Data*
Terry Chrisler - *Health Physics Data, Radiological & Contamination Data*

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PART I

OBJECTIVES AND LIMITATIONS

EXERCISE '91

CONTROLLED DISTRIBUTION [1]

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CONTROLLED DISTRIBUTION

[1] Section IA, Objectives & Limitations, is *Controlled Distribution.* Sections IB thru IF, inclusive, are *Uncontrolled Distribution.*

SECTION IA

EXERCISE '91
OBJECTIVES AND LIMITATIONS

A. SCOPE

The primary purpose of this Exercise, scheduled for November 19, 1991 is to demonstrate effective management of the emergency and plant reentry operations with efficient coordination and communications between the activated Supply System emergency centers; Control Room (simulator), Operations Support Center (OSC), Technical Support Center (TSC), the Emergency Operations Facility (EOF) and the Joint Information Center (JIC). The exercise will be characterized by required response to an emergency situation that will involve classification, notification, center activation, team deployment, accident prognosis and mitigation.

Timely and proper response by the players will contribute to mitigation of the simulated accident consequences. Participation by EOF & JIC liaison personnel, as well as offsite agencies to include the Nuclear Regulatory Commission, Federal Emergency Management Agency Region X, Benton/Franklin Counties, Washington State Division of Emergency Management (DEM) and Department of Health (DOH), the Oregon State Department of Energy and US-DOE will occur.

B. OBJECTIVES

The Objectives are divided into two major sections. The first section includes objectives which cannot be directly reflected in the FEMA standardized objectives. The second section includes numbered objectives which reflect FEMA standardized objectives. Subparagraph letter groups reflect specific objectives. Some are keyed to findings from earlier exercises and drills as indicated by the *italicized* document code numbers in parentheses. The Center/Agency responsible for each objective (if not specifically stated in the objective) is also delineated in parentheses after the objective.

GENERAL OBJECTIVES

SUPPLY SYSTEM General Objectives

1) To provide Supply System personnel with the opportunity to participate interactively with the NRC Emergency Response Team and Response

Team implementing procedures as delineated in NuReg 0845.

2) To provide Supply System personnel with the opportunity to practice Casualty Control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release.

US NRC General Objectives

1) Demonstrate the adequacy and workability of the NRC Region V Supplement to NuReg 0845.

2) Demonstrate the ability of NRC Region V personnel to respond to an emergency in accordance with the Region V Supplement to NuReg 0845.

3) Demonstrate the procedures and decision making process used to transition the NRC response from one mode to another.

4) Provide an opportunity for the Supply System, State and local governments, as appropriate, to participate directly with the NRC during an emergency preparedness exercise.

5) Demonstrate the ability to document all significant actions and decisions.

FEDERAL EMERGENCY MANAGEMENT AGENCY

No general objectives have been identified for FEMA.

WASHINGTON STATE General Objectives

No general objectives have been identified for Washington State.

OREGON STATE General Objectives

1) Test established methods for exchange of information between Oregon and other emergency response organizations as appropriate.

2) Test methods for exchange of information among Oregon emergency responders as appropriate.

BENTON/FRANKLIN COUNTY General Objectives

No general objectives have been identified for Benton/Franklin Counties.

US-DOE General Objectives

1) To provide the opportunity for training for the US-DOE's Radiological Assessment Team *(RAT)* in evaluation of radiological releases in the Hanford and near-Hanford environs.

FEMA STANDARD OBJECTIVES

Emergency Classification Levels

1. Demonstrate the ability to monitor, understand and use emergency classification levels (ECLs) 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.

   a. Centers/Agencies affected: Control Room, TSC, SSDC, MUDAC, EOFCC; NRC.

   b. Limitations: None.

   c. Supporting objectives:

      1) Demonstrate the ability to make Protective Actions Recommendations (PARs) to protect the health and safety of the public. (CR, TSC, SSDC, MUDAC)

      2) Demonstrate the ability to completely fill out information on the Classification Notification Form *(CNF)*. (CR, TSC, SSDC, MUDAC, EOFCC)

      3) Demonstrate the ability to understand the technical:

         o radiological aspects of the simulated emergency, including dose assessments and dose projections. Keep the NRC Base Team Manager [Site Team

Leader/ Director] informed of changing radiological conditions. (NRC - Protective Measures Team)

- o aspects of the simulated emergency. Keep the NRC Base Team Manager [Site Team Leader/Director of Site Operations] informed of changing plant conditions and the technical implications. (NRC - Reactor Safety Team)

4) Demonstrate the ability to understand the technical aspects of and to independently assess the accuracy of the WNP-2 Emergency Organization's event classification. (NRC - Reactor Safety Team)

5) Demonstrate the ability to independently assess the WNP-2 Emergency Organization's protective action recommendations, resolve differences and, if necessary, provide other recommendations to the State and local governments. (NRC - Protective Measures Team)

Mobilization of Emergency Personnel

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

a. Centers/Agencies Affected: All / NRC, Oregon, Benton/Franklin EOC

b. Limitations:

1) Neither round-the-clock staffing nor shift change will be demonstrated.

2) Phones in the JIC may not be prestaged.

3) Oregon State limitations:

- The Oregon State Public Information Officer, the Technical and Health Advisors and the County Liaison positions in the Oregon EOC may be activated as needed to help test the exchange of information. No other Oregon EOC positions will be activated.

c. Supporting Objectives:

1) Demonstrate the capability to provide adequate and timely announcements on the "ACTIVATED" status for emergency centers. The assumption of procedural responsibilities by key emergency center decision makers is not always clearly made known to center staff or to other emergency centers. (TSC, OSC, SSDC, MUDAC)

2) Demonstrate that Security will automatically impose roadblocks on an EAL of Alert, or higher, should an evacuation order for the Protected Area be decreed. *(CAR 90-0024)* (Security)

3) Demonstrate the ability to activate the Incident Response Center and, as a minimum, staff the core positions of the Base Team (NRC - Base Team)

4) Oregon will demonstrate receipt of initial notification for mobilization from the Washington State EOC. (O-DOE, WA-DEM)

5) Oregon will demonstrate mobilization of representatives to the Supply System Joint Information Center, the Supply System EOF and the Washington State EOC. These persons will be prestaged. (O-DOE)

Direction and Control

3. Demonstrate the ability to direct, coordinate and control emergency activities for Supply System and off-site support agencies.

a. Centers/Agencies affected: All / NRC, Benton-Franklin EOC

b. Limitations:

1) Benton Franklin EOC will not activate county agencies/organizations outside of the EOC.

c. Supporting objectives:

1) Demonstrate the ability of the OSC staff to correctly track and control all plant reentry teams, assume control of personnel already dispatched at the time of OSC activation (to include security personnel), and to maintain effective

communications with all dispatched teams.

- o The OSC Director and OSC Staff displayed multiple failures to thoroughly complete reentry team briefing forms in accordance with PPM 13.10.12. Demonstrate the ability to accurately complete the briefing/debriefing forms. *(CAR 90-0038)* (OSC)

- o The Team dispatched to verify alerting of personnel in outlying buildings were given a map to use which did not properly reflect all the buildings. Demonstrate that correct maps are given to dispatched teams in accordance with PPM 13.5.1 or 13.5.2, as appropriate. *(CAR 90-0046)* (OSC)

2) Demonstrate an orderly, mutually understood transfer of control for direction of the Plant Emergency Team (PET) from the Control Room (Simulator) to the OSC with cognizance on the part of the TSC. (CR & OSC)

3) Demonstrate those aspects of the Radiation Protection Program that include implementation of emergency exposure guidelines. *(NuReg 0654, criterion K.2)* (OSC, TSC)

4) Demonstrate the ability to effectively and systematically transfer responsibilities from the:

- o NRC Base Team Manager to the NRC Executive Team during the transition from Standby to Initial Activation. (NRC - Base Team)

- o NRC Executive Team to the NRC Director of Site Operations during the transition from Initial Activation to Expanded Activation. (NRC - Site Team Leader/ Director of Site Operations)

5) Demonstrate the ability to provide overall management direction to the:

- o NRC Base Team and understand the technical aspects of the simulated emergency. (NRC - Base Team Manager)

- o NRC Reactor Safety Team and maintain awareness of plant conditions, including core and containment status. (NRC - Reactor Safety Team Manager, Reactor Safety Team Coordinator)

- o NRC Protective Measures Team and maintain awareness of inplant radiological conditions. (NRC - Protective Measures Manager, Protective Measures Coordinator)

- o NRC Site Team and understand the technical aspects of the simulated emergency. (NRC - Site Team Leader/Director of Site Operations)

Communications

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

a. Centers/Agencies affected: All / NRC, O-DOE, Benton-Franklin EOC.

b. Limitations: Benton Franklin EOC will not activate field personnel outside of the EOC.

c. Supporting objectives:

1) Demonstrate proper functioning and set up of the communications systems, e.g. the Crash phones, PA speaker clarity, TSC phone locations, distinguishable simulator phone ringers, ENS line, fax, and STA phones, CRS phone console layout, radio clarity in the CAS, and OSC phone cable routing (ALL CENTERS).

- o When questionable problems arise in MUDAC systems, the (CIS) Systems analyst in the Dose Projection Group needs to spend time on the televideo to troubleshoot the situation. This makes TDAS signals unavailable at a time when they may be needed to provide data for the BEDPS. If problems should arise, demonstrate that the MUDAC Coordinator either directs the CIS Analyst to use a terminal outside the MUDAC or obtains

TDAS information directly from the CR via the Information Network Coordinator. *(CAR 90-0021)* (MUDAC)

2) Demonstrate timely and accurate exchange of information on such things as plant and emergency status, including completion of major activities, between emergency centers such as the Control Room, TSC, OSC, EOF and JIC, and dispatched emergency teams.

Include such items as:

- o Proper Control Room staff PA announcements, notifications of emergency events and utilization of augmenting staff when warranted; proper TSC inclusion of the TSC Director and notifications of significant updates to the NRC, OSC and others, and timely announcements of existing hazards accompanied by correct alerting tone. (CR, TSC)

- o Realistic communications by deployed reentry teams when all members are simulated to be in SCBA's. (OSC) [1]

- o Critical information on actions to mitigate plant problems, or operational status for plant emergency centers is not always transmitted be emergency centers that have a need to know. (CR, TSC, OSC)

- o Adequate and timely announcements have not always been made nor repeated to emergency personnel to keep them apprised of plant conditions and/or hazards to avoid. (CR, TSC, OSC)

- o Posting of the plume EPZ PAR/PAD status boards in the SSDC and in MUDAC have been less than adequate for timeliness and completeness. (SSDC,

---

[1] OSC CONTROLLERS *(with Teams wearing SCBA's)* NOTE In accordance with a telecon between A McQueen of the NRC and JA Landon & DE Larson of the Supply System on September 11, 1991 - items to ensure during evaluation of this activity is that: a) the teams build in ample delay in simulation of dressing/undressing activities, and (b) that teams when communicating either by radio or telephone simulate communications difficulties *(i.e.- the team member should put on a face mask to muffle his/her voice when talking on the radio or telephone)*, and (c) that the same individuals are not used repeatedly on the various dispatched teams.

MUDAC)

- o Field Teams do not always establish immediate contact with MUDAC by phone or radio to keep coordinators informed of their deployment status. (Field Teams, MUDAC)

- o Some Field Team members have demonstrated less than adequate familiarity with proper setup of portable radio communications enhancement equipment for use in vehicles. (Field Teams)

- o Announcements in the EOF of EAL's were not made promptly after the declarations. During Exercise 90, one announcement delayed until 20 minutes after the declaration. *(Exercise '90, CAR NRC-90-0057)* (EOFCC)

- o The Security Supervisor did not designate a phone talker to handle information updates to other centers. Instead, he handled this function himself and, consequently, was distracted from the decision making and direction required by the situation. Demonstrate, should the situation warrant, that a phone talker is designated from among the CAS Operators to handle information for Security. *(CAR 90-0048)* (CAS)

3) Demonstrate the ability to initiate notifications to the EOF Communications Center, state, counties, DOE-RL and NRC, as applicable, in a proper and timely manner. (CR*[sim]*, TSC, SSDC, MUDAC)

4) Demonstrate the adequacy of the NRC's communication capabilities to include:

- o Establishing and maintaining telecommunications on the Emergency Notification System *(ENS)* and counterpart links, and to provide information to other team organizations as appropriate. (NRC - Reactor Safety Team)
- o Establishing and maintaining telecommunications on the Health Physics Network *(HPN)* and counterpart links. (NRC - Protective Measures Team)

- o Establishing and maintaining a telecommunications counterpart link between the Headquarters, Base Teams, Site Teams and FBI [if appropriate]. (NRC - Safeguards/Security Team)

5) Demonstrate the timely ability to notify and provide periodic updates to appropriate Federal, Regional and State agencies of the NRC response mode and other pertinent information. (NRC - Government Liaison Team)

6) Demonstrate the ability to keep the NRC Base Team Manager [Site Team Leader/Director of Site Operations] informed of the activities of other Federal, State and local government agencies. This objective includes maintaining a list of the actual decision makers by name, title, telephone number and location. (NRC - Government Liaison Team)

7) Demonstrate the ability to direct congressional queries to the proper respondent. (NRC - Government Liaison Team)

8) Demonstrate the ability to issue a timely and accurate status summary report(s) and Preliminary Notification (PN) with the appropriate technical content. (NRC - Reactor Safety Team)

9) Oregon representatives will test the ability to communicate with each other by commercial phone. The new commercial telephone provided for the Oregon Representative at the OACC will also be tested. (O-DOE)

10) Oregon will test two fax communications systems. Oregon will conduct the tests as time permits without hindering Supply System or Washington State activities:
    - o Test of the dedicated fax link from the Supply System EOF to the Washington State EOC and on to the Oregon EOC through the dedicated Trojan fax line.
    - o Test of the dedicated fax link from the Supply System Joint Information Center to the Washington EOC, and on to the Oregon EOC through the dedicated Trojan fax line. (O-DOE)

11) Emergency communications links between the Oregon EOC

and Morrow and Umatilla Counties will be tested. (O-DOE)

12) Emergency communications links between the Oregon EOC and the Nuclear Regulatory Commission will be tested as appropriate. (O-DOE)

13) Emergency communications links between the Oregon EOC and FEMA will be tested as appropriate. (O-DOE)

Facilities, Equipment and Displays

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

a. Centers/Agencies affected: All / NRC; Benton-Franklin EOC

b. Limitations:

1) Phones in the JIC may not be prestaged.

c. Supporting objectives:

1) Demonstrate the proper and timely maintenance of emergency center data displays, especially in the PAP lobby, SSDC, MUDAC and JIC. (All Centers)

2) Demonstrate timely access control over personnel movement into the Emergency Operations Facility. *(CAR NRC-90-0059)* (HP Center)

3) Demonstrate that the Manpower Scheduler in the SSDC has work space assigned and that A white board is installed on the North wall of the SSDC for use by the Recovery Manager. *(CAR 90-0064)* (SSDC)

4) Demonstrate the ability to provide the necessary support to the NRC Base Team Manager [Site Team Leader/Director of Site Operations] and other Base Team [Site Team] members. (NRC - Emergency Response Manager/Coordinator/Team)

5) Demonstrate the ability to arrange for communications

support for the NRC Site Team. (NRC - Emergency Response Manager/Team)

6) Demonstrate the ability to provide the administrative and logistical needs of the NRC Base and NRC Site Teams. (NRC - Resources Team)

7) Demonstrate the ability to arrange for air and ground transportation, lodging and funding for the NRC Site Team. (NRC - Resources Team)

8) Demonstrate the ability to maintain timely and accurate information on status boards. (NRC - Reactor Safety Team)

Emergency Worker Exposure Control

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

   a. Centers/Agencies affected: OSC, CAS and MUDAC; NRC.

   b. Limitations:

      1) The PAP and AAP will remain functional for routine plant operations. Actual security is not to be jeopardized.

      2) Radioactive material will not be utilized to "spike" any sample nor for contamination props.

      3) Offsite field team members will not wear protective clothing in the field except those dispatched on the Hanford Reservation.

      4) SCBA's may be worn by bearded personnel.

      5) SCBA's need only be utilized throughout the first deployment of each emergency worker if proficiency is demonstrated. In the interest of safety, SCBA's may be removed from anyone stressed by its use.

   c. Supporting Objectives:

1) Demonstrate the ability to move badges and TLD's, or mock ups. (Security)

2) Demonstrate effective control of Security Force emergency workers. (Security)

3) Demonstrate that continuous radiation monitoring is being performed by Field Teams, even while proceeding to assigned locations. *(NuReg 0654, criterion K.3.b)*

4) Demonstrate the proper use of designated, separate areas for protective clothing dress-out and for the removal of protective clothing by Reentry Teams. *(CAR-NRC-90-0055)* (OSC)

5) Demonstrate the ability to issue protective equipment *(e.g. - KI, survey instruments, pocket ion chambers)* in an expeditious manner. (NRC - Protective Measures Team)

6) Demonstrate the capability to determine the doses received by emergency personnel *(including volunteers, if players should volunteer as part of free play in the exercise scenario). (NuReg 0654, criterion K.3.a)* (OSC & MUDAC)

Field Radiological Monitoring

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

   a. Centers/Agencies affected: MUDAC *(and field teams).*

   b. Limitations: Mutual aid response will not be demonstrated.

   c. Supporting Objective: None

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

   a. Centers/Agencies affected: MUDAC *(and field teams).*

   b. Limitations: None.

c. Supporting objectives: None.

9. Not applicable.

Plume Dose Projection

10. Demonstrate the ability, within the plume exposure pathway, to project *(including thyroid dosage)* dosage to the public via plume exposure.

    a. Center affected: MUDAC.

    b. Limitations: None.

    c. Supporting objectives:

        1) Demonstrate that MUDAC Dose Projection Staff do not exceed procedural requirements *(PPM 13.8.1)* when comparing measured dose rate to projected dose rates. *(FEMA ARCA S91-3)* (MUDAC)

        2) Demonstrate that MUDAC Dose Projection Staff properly use default values for dose projections and then properly compare dose projections with actual field measurements. And, further, that they properly incorporate adjustments to the dose projection. *(CAR NRC-90-0058)* (MUDAC)

        3) Demonstrate the ability to: *(in accordance with NuReg 0654, criterion I.10)*

            o Relate the various measured parameters (eg - contamination levels, water and air activity levels) to dose rates for key isotopes *(ie - those given in Table 3, page 18, NuReg 0654)* (MUDAC)

            o Estimate integrated dose from the projected and actual dose rates and compare these estimates with the PAG's *(PAR's)* (MUDAC)

Plume Protective Action Decision Making

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.

a. Centers/Agencies affected: None / Oregon DOE; Benton-Franklin EOC

b. Limitations: None

c. Supporting Objectives: Oregon will coordinate activities with Washington State as needed. (O-DOE)

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 officials.

a. Centers/Agencies affected: Benton-Franklin EOC

b. Limitations:

1) The EBS broadcasts will be simulated on a special telephone speaker circuit.

2) Only sirens within the Exclusion Area Boundary will be actuated.

c. Supporting Objectives: None

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.

a. Centers/Agencies affected: CR, TSC, EOF, JIC / NRC; Benton-Franklin EOC

b. Limitations:

1) The EBS broadcasts will be simulated on a special telephone speaker circuit.

2) Only sirens within the Exclusion Area Boundary will be actuated.

c. Supporting objectives:

1) During Drill 90-2, news releases took an average of 45 minutes each from the time they were received in the JIC until they were made available in the JIC lobby. The JIC has committed to strive for less than 30 minutes as a goal. Demonstrate whether or not this goal has been achieved. (CAR 90-0036) (JIC)

2) Demonstrate the ability to release information to the public that is accurate, consistent and timely, and to coordinate that information between the Supply System, State/local governments and NRC teams. (NRC - Public Affairs Team)

14. Demonstrate the ability to brief the media in an accurate, coordinated and timely manner.

a. Centers/Agencies affected: JIC; NRC.

b. Limitations:

1) The JIC will not be set-up in advance of the Exercise.

c. Supporting objectives

1) Demonstrate correct, timely and courteous responses by telephone teams to all calls from the simulated media and public. *(CAR 90-0017)* ((JIC)

2) Demonstrate activation of the emergency news center (JIC) in accordance with NuReg 0654 criteria:

- Demonstrate the points of contact and physical locations for use by the news media. *(Criterion G.3.a)* (JIC)

- Demonstrate that space is provided for a limited number of news media at the EOF. *(Criterion G.3.b)* (JIC)

- Demonstrate the performance of a knowledgeable spokesperson who has access to all necessary

information. *(Criterion G.4.a)* (JIC)

3) Demonstrate proper discharge of all JIC responsibilities, e.g., proper team supervision, equipment activation and checks, news release preparation and distribution, conduct of news conferences, notifications and documentation.

- o Initial coordinating duties of key JIC personnel has been less than adequate for:

  a) Outside telephone line forwarding capabilities are not always checked for operational readiness.

  b) Team supervisors do not always assure all equipment is gathered and is operational.

  c) Company switchboard operators are not always informed when media and public information teams are activated and where to forward incoming calls.

4) Demonstrate that the JIC includes information on confirmed plant radiological releases in news releases to the media. (JIC)

5) Demonstrate the ability to appropriately handle media requests for information. (NRC - Public Affairs Team)

6) Oregon will prepare news releases regarding Oregon's response to the simulated emergency, as appropriate. (O-DOE)

7) Oregon will coordinate the exchange of information with other jurisdictions as appropriate. (O-DOE)

15. Demonstrate the ability to establish and operate rumor control in a coordinated and timely fashion.

a. Centers/Agencies affected: JIC.

b. Limitations: None.

c. Supporting objectives: None.

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 pre-determined criteria, as well as to distribute and administer it once the decision is made.

    a. Centers/Agencies affected: TSC, OSC, CAS, EOF.

    b. Limitations: There are no institutionalized persons in the plume EPZ.

    c. Supporting objectives: None.

17. Demonstrate the ability to make the decision, if the State plan so specified, to recommend the use of KI for the general public, based on predetermined criteria, as well as to distribute and administer it once the decision is made, if necessitated by radioiodine releases.

    a. Centers/Agencies affected: None

    b. Limitations: This Objective does not apply in Washington State

    c. Supporting Objectives: None

Implementation of Protective Actions, Traffic Control, Relocation Centers and Medical Services

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).*

    a. Centers/Agencies affected: None / Benton-Franklin EOC

    b. Limitations:

        1) Evacuations will be simulated; no personnel will actually be moved.

    c. Supporting Objectives:

1) None

19. Demonstrate the ability and resources necessary to implement appropriate protective actions for school children within the plume EPZ.

a. Centers/Agencies affected: None

b. Limitations: This Objective will not be demonstrated.

c. Supporting Objectives: None

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

a. Centers/Agencies affected: None / Benton-Franklin EOC

b. Limitations: Benton-Franklin EOC will simulate this activity.

c. Supporting Objectives: None

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

a. Centers/Agencies Affected: None

b. Limitations: This Objective will not be demonstrated.

c. Supporting Objectives: None

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

a. Centers/Agencies affected: None

b. Limitations: This Objective will not be demonstrated.

c. Supporting Objectives: None

23. Not applicable.

24. Not applicable.

Decontamination, Supplementary Assistance and Ingestion

25. Not applicable.

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

    a. Centers/Agencies affected: TSC, SSDC / None

    b. Limitations: None

    c. Supporting Objectives: None

27. Not applicable.

28. Not applicable.

29. Not applicable.

30. Not applicable.

Recovery, Reentry and Relocation

31. Not applicable.

32. Not applicable.

33. Not applicable.

24 Hour Staffing, Evacuation of Onsite Personnel and Unannounced Drill

34. Demonstrate the ability to maintain staffing on a continuous 24- hour basis by an actual shift change.

    a. Centers/Agencies affected: None

    b. Limitations: This Objective will not be demonstrated

    c. Supporting Objectives:

        1) None

35. Demonstrate the ability to coordinate the evacuation of onsite personnel.

a. Centers/Agencies affected: CR (sim), TSC, OSC, SSDC, EOFCC, HPC, MUDAC.

b. Limitations: Only pre-designated 'role-players' will be evacuees.

c. Supporting Objectives: None

36. Not applicable.

EXERCISE '91 SCHEDULE

November 1991

	MONDAY	
November 11		November 18 12:30 Player Orientation Mtg - GSB Conf Rm 13:30 Player Orientation Mtg - PSF Auditorium 14:30 Player Orientation Mtg - MPF Auditorium
November 12 08:30 Ctlr/Eval Scenario Issue Mtg - PSF Rm 120	TUESDAY	November 19 06:15 Security Player Orientation Mtg - Bldg #1 07:00 OP's Player Orientation Mtg - Simulator *CONDUCT EXERCISE '91* 14:30 Player/Evaluator Critique Mtgs @ Each Center
November 13 12:30 New Ctlr/Eval Training (if needed) - PSF Rm 120	WEDNESDAY	November 20 08:30 All Ctlr/Eval Critique Mtg - PSF Rm 141 12:30 Key Ctlr/Eval Critique Final Mtg - PSF Rm 141
November 14	THURSDAY	November 21
November 15 07:30 Final Ctlr/Eval, Role Player Mtg - PSF Rm 141 13:30 Final Casualty Scene Inspection - GSB Lunch Rm	FRIDAY	November 22

November

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

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SECTION I C

PLAYER POSITIONS

EXERCISE '91

1. Supply System Players - Plant

A. Control Room (Simulator) (McKay) [1]

Shift Manager	_____
Control Room Supervisor	_____
Reactor Operators	_____
	_____
	_____
	_____
Shift Technical Advisor	_____
CR Information Network Coordinator	_____

B. Operations Support Center

OSC Director	**(Harmon)**	Jerry Harmon
Plant Emergency Team Leader	**(McKay)**	_____
HP Personnel : Plant Emergency Team	**(Graybeal)**	_____
		_____
Equipment Operators: Plant Emergency Team	**(McKay)**	_____
		_____
		_____
Other Equipment Operators		_____
		_____

[1] This and subsequent surnames in bold *(parens)* indicate the manager responsible to provide Players.

Maintenance Support Personnel (Harmon)
Electricians

Mechanics

I&C Technicians

HP OSC Support Personnel (Graybeal)

Lead HP

Other HP Supp. Personnel

Chemistry Staff - Lead (Graybeal)
- Chemists

Safety Support Individual (Harmon)

Administrative Support Staff
Significant Event
Logkeeper (Harmon)

Phone Talker (Harmon)

Stenographer (Harmon)

Records Coordinator (Peters)

Radio Communicator (Harmon)

Dosimetry Support (Graybeal)

OSC Support Personnel

Information Network Coordinator	(Harmon)	
HP Log Keeper	(Graybeal)	
Team Tracking Locator	(Harmon)	
Accountability	(Harmon)	
Team Brief/Debrief	(Harmon)	
Warehouse Coord.	(Harmon)	
Security Operations Coordinator	(Martin)	

C. Technical Support Center

Plant Emergency Director	(Baker)	Larry Harrold
Ass't Plant Emergency Director	(Baker)	
TSC Director	(Webring)	Rod Webring
Plant Technical Staff	(Webring)	
Thermal-Hydraulic		
Mechanical		
Electrical		
Chemical		
Computer		
I&C		

Operations Manager	(McKay)	Sam McKay
Radiation Protection Manager	(Graybeal)	Dave Pisarcik
HP Technician	(Graybeal)	
Radiological Data Coordinator	(Graybeal)	
Administrative Manager	(Peters)	
Administrative Support Staff	(Peters)	
Status Board Keepers:		
- Plant		
- Significant Events		
FAX Operator		
Helper		
Operations Communicator		
Radio/Phone Communicator		
Records Communicator		
Accountability Coordinator		
Stenographers:		
- PED		
- TSC-Dir.		
TSC/OSC Liaison		
Information Network Coordinator	(Peters)	
Plant/NRC Liaison	(Hosler)	

D. Central Alarm Station (Martin)

Security Supervisor	
Security Officers	

CAS _____

_____

_____

2. Supply System Players - EOF

A. Supply System Decision Center (Waddel)

Recovery Manager — Lee Oxsen

Assistant Recovery Manager — Don Bouchey

Licensing Manager _____

Safety Manager _____

Site Support Manager _____

Administrative Support Manager _____

Administrative Support Staff

- Secretary _____
- Stenographer _____
- Helper _____
- Manpower Scheduler _____

Information Network Coordinator _____

B. Security Decision Center (Martin)

Security Manager _____Dan Martin_____

LLEA Coordinator _____

Information Network Coordinator _____

C. EOF Communications Center (Martin)

Center Coordinator _____Sue Morris_____

Duty Officer _____
Responder _____
Notification Support _____

D. Telecommunications Coord. Center (Carpenter)

Communications Manager _____

Telecom Technicians _____
_____

FAX Operator _____
Communications Runner _____

E. Offsite Agency Coordination Center (Kiel)

Offsite Agency Coordinator _____Bill Kiel_____

Ass't Offsite Agency Coord. _____
Administrative Supp't Staff

Stenographer _____
Helper _____
Information Network Coordinator _____

F. Emergency Operations Center (Noyes)

NOTE - We will pre-stage Supply System personnel in Olympia for the Exercise.

Representatives to State EOC _____
_____

Representatives to County EOC _____
_____

G. Technical Data Center (Noyes)

Technical Manager Dick Koenigs

Staff:

Fuels Assessment _____
Plant Systems Assessment _____
Radiation Detection Systems _____
Electrical/I&C Systems _____
State/County Tech Liaison _____
Graphic Display System _____

TDC Support Personnel
Information Network Coordinator _____

Administrative Support Staff
Secretary _____

H. MUDAC (Larson)

Radiological Emergency Manager Ron Chitwood

MUDAC Coordinator — Guy Oldfield

Meteorologist — Felix Quinn
Dose Projection/HP

Field Team Coordinator

Field Team Dispatcher
Aircraft Ground Controller
Dose Projection/Sys Analyst
Environmental Field Teams
Team #1

Team #2

Team #3

Stenographers

Information Network Coordinator

I. Health Physics Center (Larson)

Center Coordinator

HP Center Staff

HP/Chem Staff

J. Media Briefing Preparation Area (Tupper)

EOF Public Information Officer

Technical Liaison _____

Network Coordinator _____

K. Other Administrative Support Staff Areas (Telander)

Janitor	As Needed
Word Processor	As Needed
Computer Systems Coordinator	As Needed
Duplicating Coordinator	As Needed
Duplicating Personnel	As Needed
Facilities Support	As Needed

3. Supply System Players - Headquarters

A. Managing Director's Office (CMC)

(NOTE - This function will not be staffed for the Exercise)

B. Other Administrative Support Staff Areas (Telander)

Staff _____ As Needed

C. Joint Information Center (Tupper)

Director	Carl VanHoff
Assistant Director	
Secretary	
Spokesperson	
Technical Spokesperson	
News Coordinating Team	

News Release Editor	
Distribution Team Supervisor	
Distribution Team	
Information Manager	
Media Telephone Team Supervisor	
Media Telephone Team	
Public Info Team Supervisor	
Public Info Team	
Media Manager	
Support Manager	
Audio Visual	
Receptionist	
Security Staff	As Needed

4. Benton/Franklin Counties Players

A. County EOC

NOTE - The County intends to activate their EOC, but not any functions outside of their EOC. e.g. - Field Teams, EWAC workers, et al.

Decision Group

Chairman *(County Commissioner)*	Sheriff Jim Kennedy, Benton Co
Benton Co Sheriff	Sgt Ed Kennelly, Franklin Co
Franklin Co Sheriff	N/A
DEM Director	Bob Martin, Dir Benton Co DEM
Health Officer	TBD
Public Information Officer	Gary Pira, Benton Co

Implementation Group

Implementation Coordinator	N/A
Facility Representative	N/A
Benton County Sheriff Rep.	N/A
Franklin County Sheriff Rep.	N/A
City Police Representative(s)	N/A
Fire Coordinator(s)	N/A
Health Dept Representative	N/A
Agriculture Representative	N/A
Red Cross Representative	N/A
Emerg. Mgmt/Transport. Coord.	N/A
Receptionist/Message Controller(s)	N/A
Communications Director	N/A

Advice Group

Benton County Commissioner	N/A
Franklin County Commissioner	N/A

Support Group

Radio Operator(s)	N/A
Messenger(s)	TBD
Plotter(s)	N/A
PIO Support	N/A
Dispatcher(s)	N/A

JIC - County PIO Rep	Donna Somers - Benton CO
JIC - County Spokesperson	TBD
EOF Representative	TBD

5. Washington State Players [2]

B. Supply System EOF

Senior State Liaison	Al Conklin *(DOH)*
Administrative OACC Liaison	Tracey Patterson *(DOH)*
MUDAC -	
Dose Assessor	Kathy Fox Williams *(DOH)*
Nuclear Engineer	Dick Cowley *(DOH)*

C. Joint Information Center

State Emergency Public Info Officer Observer	Mike Robertson

D. County EOC

State Liaison to County	George Petre

E. State EOC

DEM Director (Decision Maker)	Sandi Benbrook
Planning Section	Diane Offord
Operations Coordinators	Jeanette Lomax
	Stan Jackson
Health Officer	
Nuclear Engineer	
DEM Duty Officer (actual)	

[2] The State intends to participate in a limited manner in the Exercise. They do not intend to dispatch or play Field Teams. They intend to participate in Supply System Emergency Centers, principally including the MUDAC, JIC and SSDC. In the case of the JIC, they intend to observe, as opposed to Play.
They will, additionally, man the State EOC with ample personnel to provide meaningful interface with the NRC Players. Specifically, the State EOC will be manned by a Decision Maker, a Health Officer and two Coordinators, as well as a State Controller.

6. Oregon State Players

A. EOF

Oregon Representative — Nick Goevelinger

B. JIC

Oregon Representatives — Ken Niles
Bob Robison

C. Oregon EOC

Technical Advisor [3] — David Stewart-Smith, ODOE
EOC Manager — Jim Mazza, Div Emerg Mgmt
Health Advisor — Ray Paris, OR Health
Plant Analyst — Adam Bless, O-DOE

D. WA EOC

Oregon Representative — Mary Lou Blazek, O-DOE

7. Department of Energy

A. Supply System EOF

DOE Management Rep to EOF _____
DOE Security Rep to EOF _____

MUDAC Staff
PAD Group Member _____
Field Team Dispatcher _____

Radiological Assessment Team
Team Captain _____
Team Members [4] _____
_____

[3] The Oregon EOC Technical Advisor is the designated Decision Maker for this Exercise for the State of Oregon.

[4] There will be up to 15 Team members, including personnel in a command van, three separate field teams and a mobile laboratory.

B. **JIC**

Doe Spokespersons (2) _____

_____

8. United States Nuclear Regulatory Commission [5]

A. Region V Headquarters - Base Team

Base Team Manager	Roy Zimmerman
Reactor Safety Team	
Reactor Safety Manager	Dennis Kirsch
Reactor Safety Ass't Mgr	Lew Miller
Communicator - ENS	Paul Narbut
Communicator - Counterpart Link	Ken Johnston
RS ERDS Operator	Bill Ang
Reactor Systems Specialist	Tom Meadows
Protective Measures Team	
PM Manager	Frank Wenslawski
PM Ass't Manager	Chuck Hooker
PM Communicator - HP Network	Mike Cillis
Dose Assessor	Dave Skov
HP Specialist/ PM ERDS Operator	Dean Chaney
HP Plotter	Frieda Taylor
Public Affairs Team	
Public Affairs Manager	Randy Huey
Public Affairs Communicator	Joan Garcia
Status Summary Team	
Status Summary Manager	Phil Morrill
Status Summary Communicator	Ann Rivers

[5] Per telecon between E Garcia, NRC Region V and JA Landon, Supply System on 9/17/91 - The NRC will have approximately 50 participants in the Exercise. Nominally, half of these participants will be on the NRC Base Team in Walnut Creek and half will be on the Site Team in Washington State. Locations of Site Team participants will be dependent on the extent of WA State and local County participation in the Exercise.

Government Liaison Team

Government Liaison Manager	Beth Prange

Emergency Response Team

Emergency Response Manager	Gail Good

Resources Team

Resource Manager	Kathleen Hamill
Resource Ass't Manager	Terry McNally

Safeguards & Security

Safeguards Security Manager	Doug Schuster

Support Staff

Switchboard Operator	Dian Bond

B. Supply System - Site Team

Director of Site Operations/ Site Team Leader	Bob Faulkenberry - EOF
Admin Ass't to DSO	Maurine Smith - EOF
Emergency Response Coordinator	Emilio Garcia - EOF

Reactor Safety Team

Reactor Safety Coordinator	Ken Perkins - EOF
Reactor Safety Ass't Coord	Stu Richards - EOF
RS Communicator - ENS	Gary Johnston - EOF
RS Comm - Counterpart Link	Phil Johnston - EOF
RS Operations Coordinator	Chris Sorensen - TSC
CR Coordinator	Dave Proulx - CR
Reactor Systems Specialist	Todd Sundsmo - EOF

Protective Measures Team

Prot. Measures Coordinator	Ross Scarano - EOF
Prot. Meas. Ass't Coord.	Greg Yuhas - EOF
Radiation Safety Coord.	Lou Carson - TSC
Rad Safety Comm. - HPN	Hal Resides - EOF
Dose Assessor	Rey Bocanegra - EOF

Public Affairs Team

Public Affairs Coordinator	Jim Montgomery - EOF
JIC Coordinator	Greg Cook - JIC
Public Affairs Communicator - EOF	Rosemary Cosso - EOF
Public Affairs Communicator - JIC	Arnie Wieder - JIC

Government Liaison Team

Government Liaison Coordinator	Dean Kunihiro - EOF

Resources Team

Resource Coordinator	Ed Frigillana - EOF

Status Summary Team

Status Summary Coordinator	Brad Olson -EOF
Status Summary Communicator	Jo Bianchi - EOF

Safeguards Security

Safeguards Security Coordinator	LeRoy Norderhaug - EOF

9. FEMA PLAYERS

A. Supply System

OACC

OACC Coordination	_____

SSDC

NRC Liaison	_____
Report Writer	_____

B. State EOC

State Liaison	_____

SECTION ID

EVALUATOR / CONTROLLER LIST [1]

EXERCISE '91

1. PLANT

CONTROL ROOM *(Simulator)*

Lead Evaluator	Carl Becker
EP Scenario Controller	Jim Landon
STA (Rad Data) Controller	Mike Grindel
GDS/CIS Programmer	Mark Painter
Real Control Room Controller	On-Shift CRS
Simulator Controller	Gene Fisher
Simulator Operations	Fred Guyer

OPERATIONS SUPPORT CENTER

Lead Controller/Evaluator	Andy Anderson
EP Evaluator	Alfred Klauss
Reentry Team Controller/Evaluators	
Mechanical	Bruce Olson
Electrical	John Roy
Instrument & Control	Ken Kirley
Health Physics	Max Valdez

[1] This is a preliminary listing. Position assignments will not be finalized until approximately one week prior to the Exercise.

Health Physics	Bill Flory
Health Physics	Carl Hemphill
Health Physics	Don Ehlert
PET Controller/Evaluator	'Skip' Fowler
Chemistry Controller/Evaluator	Dave Mee
OSC HP/Chem Lead Evaluator	'Skip' Alexander

TECHNICAL SUPPORT CENTER

Lead Controller/Evaluator	Ron Barbee
Evaluator	Bob Talbert

CENTRAL ALARM STATION

Lead Controller/Evaluator	Al Ware

2. EMERGENCY OPERATIONS FACILITY

SUPPLY SYSTEM DECISION CENTER

Lead Controller/Evaluator	Dave Kobus
Washington State Observer - Gov's Office	Dan Silver
Washington State Observer - Ass't Dir of Food, Safety & Animal Health	John Daly
Washington State Observer - Div. Emerg Mgmt	Kate Heimbach
Washington State Observer - Dept of Health	Terry Strong

SECURITY DECISION CENTER / EOF COMMUNICATIONS CENTER

Lead Controller/Evaluator	Chan Peterson

OFFSITE AGENCY COORDINATION CENTER

Lead Controller/Evaluator	TBD

TECHNICAL DATA CENTER

Lead Controller/Evaluator	Albert Chiang

HEALTH PHYSICS CENTER

Lead Controller/Evaluator	Ron Wardlow

METEOROLOGY & UNIFIED DOSE ASSESSMENT CENTER

Lead Controller/Evaluator	Vern Shockley
Evaluator	Craig Lawrence *(WA DOH)*
Dose Projection Evaluator	Terry Chrisler
Field Team Coordinator Controller/Evaluator	Cathy Card
WPPSS Field Team Controller/Evaluators:	
Team Number One	Anine Grumbles [2]
Team Number Two	Terry Northstrom
Team Number Three	Al Smith
DOE RAT Team	Ron Smith Mark Radonich [3]
Aerial Monitoring Controller/Evaluator	None Required

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[2] Washington State DOH has supplied a Field Team Controller/Evaluator for the Exercise. Part of the reasoning for this is to provide an opportunity for DOH to observe Supply System F/T practices.

[3] State DOH Controller/evaluator - same reason as previous footnote

NR = Not Required
TBD = To Be Determined

3. HEADQUARTERS

JOINT INFORMATION CENTER

Lead Evaluator	Richard Romanelli
Controller/Evaluator	Rich Stickney
Controller/Evaluator	Kevin Whattam

CRISIS MANAGEMENT CENTER

Lead Controller/Evaluator	None Required

CONTROL CELL

Lead Controller	Kevin Meehan
Controller	Rose Bennett (*OR DOE*)
Telephone Query/Role Player Controllers:	
Public Information	Nancy VanPelt Garza
Media Information	Bill Whiting (*W Corp*)

4. OFFSITE AGENCIES

COUNTIES

Benton/Franklin Co EOC:	
Lead Controller	Gordon Rogers
Controller	Donna Somers
Emergency Dispatch Center:	
Benton County	None Required

Franklin County	None Required

STATE OF WASHINGTON

Emergency Operations Center:

Controller	Mary Alice Peterson
Controller	Paul Fedorchak
Controller	Susan May
Supply System Controller	Mike Louisell

STATE OF OREGON

Emergency Operations Center:

Lead Controller/Role Player	TBD
Decision Group Evaluator	TBD

DEPARTMENT OF ENERGY - RL

Emergency Control Center:

Lead Controller/Role Player	TBD

UNITED STATES NUCLEAR REGULATORY COMMISSION

Base Team

Lead Controller/Evaluator	TBD
Reactor Safety Team Controller/Evaluator	TBD
Protective Measures Team Controller/Evaluator	TBD

NR = Not Required
TBD = To Be Determined

Public Affairs Team	
Controller/Evaluator	TBD
Government Liaison Team	
Controller/Evaluator	TBD
Emergency Response Team	
Controller/Evaluator	TBD
Resources Team	
Controller/Evaluator	TBD

Site Team
NOTE [4]

[4] Per telecon between E Garcia, NRC Region V and JA Landon, Supply System on 9/17/91 - The NRC will depend on the Supply System's Controllers to provide necessary Exercise direction for the NRC Site Team Participants.

SECTION 1E

DEFINITIONS/ACRONYMS

EXERCISE '91

AFFF	Aqueous Film Forming Foam
AG	Agriculture, Department of Washington State
AAP	Alternate Access Point
ARC	American Red Cross
ARM	Area Radiation Monitor
ATWS	Anticipated Transient Without Scram
B	Backup
BOP	Balance of Plant
BPA	Bonneville Power Administration
CAC	Containment Atmosphere Control
CAS	Central Alarm Station
CCTV	Closed Circuit Television
CEP	Containment Exhaust, Purge
Ci	Curie
CN	Containment Nitrogen (Inerting System)
CR	Control Room
CRD	Control Rod Drive
CSP	Containment Supply, Purge
CVB	Containment Vacuum Breaker
DBA	Design Basis Accident
DEM	Department of Emergency Management
DG	Diesel Generator
DGB	Diesel Generator Building
DOE	Department of Energy
DOT	Department of Transportation, Washington State
DSHS	Department of Social and Health Services, Washington State
DW	Drywell
EBS	Emergency Broadcast System
ECCS	Emergency Core Cooling System
EDPS	Emergency Dose Projection System
EFPD	Effective Full Power Days
EFSEC	Energy Facility Site Evaluation Council, Washington State
EO	Equipment Operator
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EOFCC	Emergency Operations Facility Communications Center
EPIO	Emergency Public Information Officer
EPIP	Emergency Plan Implementing Procedure
EPZ	Emergency Planning Zone

ERP	Elevated Release Point
EWAC	Emergency Worker/Assistance Center
FAX	Facsimile
FEMA	Federal Emergency Management Agency
FN	Fan
FRTS	Fire Remote Transfer Switch
GPM	Gallons Per Minute
H_2	Hydrogen
HCC	Headquarters Communication Center
HP	Health Physics
HPCS	High Pressure Core Spray
HVAC	Heating, Ventilation, and Air Conditioning
I&C	Instrumentation and Control
JIC	Joint Information Center
KI	Potassium Iodide Thyroid Blocking Agent
KV	Kilovolt
LLEA	Local Law Enforcement Agency
LOCA	Loss of Cooling Accident
LOOP	Loss of Offsite Power
L/O	Lockout (Circuit Breaker)
LPCI	Low Pressure Coolant Injection
LPCS	Low Pressure Core Spray
MREM	Millirem
MPF	Multipurpose Facility
MS	Main Steam (line)
MSIV	Main Steam Line Isolation Valve
MSS/RV	Main Steam Safety/Relief Valve
MUDAC	Meteorology and Unified Dose Assessment Center
NRC	Nuclear Regulatory Commission
N_2	Nitrogen
NS^4	Nuclear Steam Supply Shutoff System
O_2	Oxygen
OACC	Offsite Agency Coordination Center
OCB	Oil Circuit Breaker
OOS	Out of Service
OSC	Operations Support Center
PAD	Protective Action Decision
PAG	Protective Action Guide
PAP	Primary Access Point
PAR	Protective Action Recommendation
PASS	Post-Accident Sampling System
PED	Plant Emergency Director
PEO	Patrol (Hanford) Emergency Operations
PI	Pressure Indicator

PIO	Public Information Officer
PS	Pressure Switch
PSIG	Pounds Per Square Inch
PUD	Public Utility District
Quad	Quadrant, evacuation
RACES	Radio Amateur Civil Emergency Service
RB	Reactor Building
RCIC	Reactor Core Isolation Cooling
RCPB	Reactor Coolant Pressure Boundary
REA	Reactor Exhaust Air
REM	Radiological Emergency Manager
RFP	Reactor Feed Pump
RHR	Residual Heat Removal
RL	Richland Operations; Department of Energy
RM	Recovery Manager
ROA	Reactor Outside Air
RPM	Radiation Protection Manager
RPS	Reactor Protection System
RPV	RX Pressure Vessel
RRA	Reactor Recirculating Air
RW	Rad Waste Building
RX	Reactor
S	Startup
SAS	Secondary Alarm Station
SC	Suppression Chamber
SDC	Security Decision Center
SDV	Scram Discharge Volume
SECON	Security Condition
SFP	Spent Fuel Pit
SGTS	Standby Gas Treatment
SLC	Standby Liquid Control
SM	Shift Manager
SP	Suppression Pool
SSDC	Supply System Decision Center
SSW	Standby Service Water
TDC	Technical Data Center
TGB	Turbine Generator Building
TK	Tank
TR	Transformer
TSC	Technical Support Center
USCG	United States Coast Guard
V	Valve
VDC	Volts Direct Current
WC	Window Closed, Gamma, Radiation Detection Instrument

WEIC	Washington Emergency Information Center
WNP-2	Washington Nuclear Project Number 2
WO	Window Open, Beta and Gamma, Radiation Detection Instrument
WSP	Washington State Patrol
WW	Wetwell

SECTION IF

PLAYER/OBSERVER INSTRUCTIONS
EXERCISE '91

A. **Player's Rules**

1. General Instructions for all players:

   a. Player designation: Players should be selected with several criteria in mind.

      1) All emergency response personnel should be available to attend a players meeting.

      2) Players need not be pre-designated for this exercise, with the exception of select Operations personnel.

      3) Only the correct number of players should be allowed to play per the Emergency Organization Assignment List. Credit will only be given for those numbers of specific positions.

      4) All emergency response personnel are to rotate as drill/exercise participants so that an individual has served in his/her position(s) or as a Controller/Evaluator at least once every two years.

   b. Exercise

      1) Exercise pager carriers, carry the pager for your position.

      2) When you arrive at your center and are designated to remain and be a player, sign in on the drill attendance record. Put on the player badge and arm band.

   c. Interactions with evaluators and controllers:

      1) Answer any questions and ask questions if you are not clear on controller inputs.

      2) React as if their scenario inputs are real.

      3) Refer any disagreements up management channels.

4) Controllers may interrupt the play for essential reasons.

d. Safety

1) Follow procedures and safety rules. Use safeguards and safety equipment provided. Make safety a primary responsibility.

2) Realize safety takes precedence over all other requirements.

3) In case of accident or injury, know and follow existing procedures. Realize controllers may intervene to stop the play to terminate an unsafe act.

e. Realism

1) Complete all required calls to non-participating outside agencies by calling the exercise control cell, where a controller will simulate the party whom you need to reach. Telephone numbers and instructions unique to the exercise are found in Attachment A to this section. Use the Emergency Phone Directory for other emergency personnel and center numbers.

2) Play out all actions as much as possible in accordance with your emergency plan and procedures as if it were a real emergency.

3) Realize a need to respond to an actual emergency will take priority over the exercise play.

f. Exercise administrative items:

1) Start and conclude PA announcements, radio transmissions and phone conversations with the statement "This is an Exercise"

2) A shift change will not be required.

3) At the conclusion of the Exercise, remain in place for a debriefing and Facilitative Post-Exercise critique by evaluators and controllers. Fill out and submit After Action Reports with specific comments on the exercise.

2. Additional instructions for JIC and EOF players:

a. Mutual aid response may be demonstrated.

3. Additional instructions for Plant and EOF Players.

a. Realism:

1) Attempt mitigation of the accident.

2) Minimal simulation will be granted. Realistic detailed responses will be required, especially by Plant reentry teams. For example, a team ordered to perform a specific task will need to gather the necessary testing equipment, tools, supplies and replacement parts.. They will be required to describe verbally any action taken that must be simulated.

3) Real time exercise data will be available on the computers in the EOF. The data can be viewed on the display terminals and printed out on local printers.

4) Critical data for the exercise that is not on the display terminals will be available from the controllers in the centers.

5) Physical manipulations of plant operational equipment and systems shall be simulated, but must be described verbally to the controller.

6) PA system usage both in-plant and the EOF shall be restricted to exercise activities, control room functions, normal operations activities or actual emergency activities, *(i.e., minimize personnel paging).*

7) At exercise termination:

o All centers/kits shall be returned to full pre-exercise emergency preparedness status.

o SCBA bottles that were used shall be replaced with full bottles. The SCBA's shall be inspected, cleaned and placed back in their emergency locations prior to securing from work for the day.

c. Radiation levels:

1) Act as if radiation levels are actually present.

2) If required by the simulated conditions and procedures, each radiation worker will need to don and continue using anti-c's throughout each of his/her deployments. **There is one exception:**

Field monitoring teams will not wear protective equipment off the Hanford Reservation.

3) For the exercise, respirators are to be donned, if and when required by simulated conditions and procedures. **The Following conditions apply:**

- o *Each Player, if & when required, is to demonstrate*
  - *Donning an SCBA*
  - *Exhausting (breathing out) one complete bottle*
  - *Changing to a fresh bottle*

- o *After having demonstrated the three items above, the Player will not be required to wear an SCBA in subsequent deployments, however -*
  - *Players communicating by either radio or telephone shall simulate communications difficulties (ie - put on a face mask to muffle his/her voice)*
  - *When dispatching Players, ample delay is to be built in to simulate donning/un-donning activities (ie - putting on & taking off the SCBA)*
  - *The same Players shall not be repeatedly used on the various dispatched teams in order to avoid demonstration of SCBA use by other Players.*

- o *SCBA's may be used by bearded personnel (ie - There is no need to shave if you are required to wear an SCBA in the Exercise).*

4) Protective clothing from normal plant supply should be used to reduce replacement in emergency kits.

5) Silver zeolite cartridges should not be used to sample for radioiodine. Use Charcoal cartridges.

6) To maintain separation from normal samples, if any samples are provided to the counting room at the plant or EOF, they should be marked "Exercise Sample" as appropriate. These samples

and analytical results will be collected by the controller at the end of the exercise. Samples will not be "spiked."

4. Additional instructions for Plant Players:

a. Player designation:

1) Accountability, although performed, will not be an objective of this exercise.

2) The simulator will be used for the exercise to portray the Control Room. Control Room players will be pre-designated. They, unlike other players, will be notified of the Exercise start date & time. They are to report to the Simulator prior to the start of the Exercise.

b. Exercise administrative items:

1) Exercise activities shall be conducted such as to minimize the affect on normal plant operating activities. The normal plant access points will remain functional during this exercise.

2) All routine security procedures remain in effect.

c. Security

1) Some security officers will be dedicated to exercise participation.

2) If required, mockup dosimetry at the PAP and AAP will be transported (evacuated) in lieu of real dosimetry.

B. **Visitor's Information**

1. Identification: Potential observers must contact a exercise coordinator no later than the week prior to the exercise for clearance to observe the exercise. Those willing to accept an evaluator's role will then have access to the area(s) to be evaluated. Others may be granted access only to the Joint Information Center. Designated evaluators will be committed to the schedule of controller/evaluator orientations and work sessions outlined at Page I-B-1.

2. Observers' Rules: Observers are expected to observe the following rules of emergency exercise observer etiquette:

- o Remain in designated observer areas.
- o Do not ask questions of the players.
- o Do not distract the players, evaluators or controllers by loud talking, etc.
- o Adhere to any posted no smoking signs or similar prohibitions.

3. Exercise coordinators who may be contacted for evaluator duties, observer clearance or other particulars on the emergency drill:

Plant & EOF Centers	JA Landon	377-8332
Plant & EOF Centers	TE Chrisler	377-8300
Joint Information Center	RL Romanelli	372-5315

C. Attachments:

1. Special Player Telephone Use Instructions.

Attachment A, Section I-F

SPECIAL PLAYER TELEPHONE USE INSTRUCTIONS

EXERCISE '91

1. During the exercise, the Supply System emergency centers will be activated. Also, players or role player controllers will staff the State, Counties, and DOE-RL Emergency Operations Centers. Exercise communications and coordination should take place between the players and controllers at these centers.

2. If realistic play of the exercise requires you to contact someone at an agency not participating in the exercise, e.g., General Electric, Coast Guard, National Weather Service, Kadlec Hospital staff, etc., use the appropriate number listed below. Controllers will then role-play as representatives of the respective agency, and may have scenario information essential to your needs. When calling one of the listed numbers, specify the agency you wish to reach, e.g., *"This is the REM calling for the National Weather Service."*

Players from:	Call:	For:
Supply System Centers	372-5440	Any other Agency
	372-5686	Any other agency

3. The simulator will be used to portray the Control Room, use the following corresponding numbers to contact the staff there:

Control Room Position	Actual Control Room Number	Simulator Number to Call
Shift Manager	2278	8978
Control Room Supv.	2348	8948
Shift Tech. Advsr.	2083	8103
Reactor Operators	2242	8942
Tag Desk	2658	8958
Outside Line	377-2691	377-8991
Fax Line	209	217
Dial-Up	309	317

4. The Emergency Notification System [1] (ENS) phone in both the TSC and in the Simulator will be used to communicate with the NRC in Bethesda during the conduct of the Exercise. In the case of the simulator, the following applies:

Control Room Position	Actual Control Room Number	Simulator Number to Call
ENS Line	ENS	9-1-301-951-0550

5. The Health Physics Network (HPN) telephone system will be in use. This applies to the TSC and many of the Centers in the EOF [2].

6. Exercise Emergency calls that would in reality be made on 2222 to the control room and EOF Communications Center should be made on 8832 (Simulator).

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[1] Control Room and TSC Players are cautioned that, just as in a real emergency, the NRC will expect the ENS phone to be manned full-time. We will attempt to have Telecommunications make the connection between the Simulator 'ENS Phone' and the above listed NRC phone number prior to start of the Exercise.

[2] TSC and EOF players are cautioned that, just as in a real emergency, the HPN telephones must be manned full-time.

PART II
SCENARIO
EXERCISE '91

CONTROLLED DISTRIBUTION

CONTROLLED DISTRIBUTION

(UNTIL AFTER NOVEMBER 22, 1991)

SECTION IIA
SCENARIO SCRIPT
EXERCISE '91

This scenario is based on activities performed in the R-6 refueling outage. However, to facilitate this narrative, some activities have been changed or added [1].

The Plant is conducting refueling operations and is in the ninth day of the refueling outage. Most refueling activities inside the core have been completed, and de-channeling operations are being performed in the Spent Fuel Pool.

In-vessel inspection has revealed a crack on a dryer separator bracket, and the reactor cavity has been isolated from the fuel pool and dryer separator pit so it can be drained and the bracket inspected and repaired. Water level has been lowered to top of the reactor vessel flange, and the reactor cavity washed to prevent airborne activity.

A maintenance crew is working under the vessel removing a control rod drive mechanism. These are contractor personnel, who are performing this task for the first time at WNP-2.

An operations crew is working on the refuel floor preparing Advanced Nuclear Fuel 9 by 9 experimental fuel bundles for inspection. The bundles were placed in the core during R-4. An Electrical Division I (Bus SM-7) outage is taking place, precluding operation of all Division I Emergency Core Cooling Systems (ECCS) and monitoring equipment. The Division I Local Leak Rate Testing (LLRT) has just been completed, and the systems are drained down for maintenance activities.

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[1] Examples of some of the major items not in the original outage are as follows:
a. Division I Bus SM-7 outage; b. HPCS out of service; c. The control rod drive mechanism replacements, which were originally scheduled, but then canceled.

The condensate system is drained and out of service for the next 36 days. In addition, the High Pressure Core Spray (HPCS) pump is out of service because of failed bearings. Parts are on order, and it should be in service in about 10 days.

While moving de-channeled bundle UD4145 [2] into the south fuel preparation machine, a Plant Operator's headset cord catches on the refuel platform trolley motion switch and the trolley lurches due to an interlock failure [3]. The grappled fuel bundle , that is partially inserted into a fuel rack, is sheared by the trolley movement. Very large bubbles are seen escaping from the bundle. Shortly thereafter, the pool surface is alive with the boiling action of bursting bubbles. This portion of the scenario will be promulgated by having the Shift Support Supervisor call the control room just prior to 0900, and explain that he is continuing fuel movement, and is raising the dechanneled bundle when he exclaims that something has gone terribly wrong [4].

The refuel floor area radiation monitors alarm. Reactor Building ventilation isolates and Standby Gas Treatment starts. An ALERT [5] is declared due to a fuel handling accident resulting in the Reactor Building Exhaust (REA) isolation on a "Z" signal (>13 mr/hr)(from REA-RIS-609). Offsite release via the REA will occur for approximately 6-1/2 seconds, allowing for a relatively large initial "puff"

---

[2] This bundle is an actual bundle that was removed during the recent refueling outage. It has an exposure of 12,000 MegaWatt Days. Radial peaking was 1.1 and Axial peaking was 1.3 on the bundle. The average enrichment was 2.72%.

[3] Interlock repairs were actually performed on the refueling machine during R-6.

[4] Refer to Data Sheet 9a for details of this event.

[5] Category - Situation Based EAL for Emergency Response Team awareness level. It is possible at this point in time (although overly conservative) for the Shift Manager to declare a General Emergency, and be within the guidelines of PPM 13.1.1. However, because we need to drive the scenario in accordance with preplanned commitments, he will be asked not to declare anything greater than an ALERT at this time.

of radiation, until the REA isolation valves are fully shut [6]. The Control Room will sound the alerting tone and direct that the Reactor Building (and Containment) be evacuated.

The maintenance crew (Contractor personnel) removing a control rod drive mechanism lose control of the drive [7] as they hurry to evacuate. The drive drops down on the undervessel service platform. The control rod backseat fails to seal, and reactor vessel water level begins to drop due to the leak around the control rod drive mechanism.

As the level drops, the operating crew attempts to reflood the vessel with the Division 2 ECCS systems. As the operators try to start each pump (Residual Heat Removal (RHR) pump P-2B and RHR-P-2C. and Control Rod Drive pump P-1B), each unexpectedly fails. Reactor vessel water level continues to drop. The RHR pump 2B is in shutdown cooling mode, and experiences a shaft coupling failure. The RHR pump 2C starts, but experiences a breaker trip within seconds. Since all the condensate system including the line to the CRD pumps is dry, the operating crew can not use condensate for injection. They will also try to use the Standby Service Water cross-tie valves (RHR-V-115 & 116) to inject service water into the core region, but RHR-V-116 fails to open due to a problem with the motor operator. As the reactor water level reaches -161 inches (top of the active fuel), a SITE AREA EMERGENCY [8] is declared due to exceeding a Technical Specification Safety Limit [9].

The reactor water level continues to drop, and all efforts to stop the

---

[6] This aspect of the scenario is analyzed in the FSAR as a Design Basis Accident. The Reactor Building Exhaust Air (REA) valves are an automatic function, and do not require any operator action.

[7] Refer to event occurring at Susquehanna Unit II on 03/19/91. A Maintenance Crew lost control of a CRD with ensuing ex-vessel leakage when the Control Rod backseat failed to seal.

[8] Category - Situation Based EAL for Plant Safety Barrier, and Symptomatic Based for Core Cooling.

[9] Refer to Plant Technical Specification Safety Limit 2.1.4.

leak or inject more water are fruitless. After two hours, decay heat in the uncovered bundles is ample to begin causing fuel damage and subsequent offgassing of iodines, kryptons and xenons from defects in the fuel clad. Reactor building radiation levels begin to increase rapidly in response to this off-gassing [10]. A GENERAL EMERGENCY [11] is declared due to an event that has degraded plant safety such that the release of large amounts of radioactive materials in a short time is possible.

Meteorology will be constant throughout the Exercise. A six mph wind blowing from 345° with a stability class of "C" will prevail. The Players will be concerned with the possibility that should another offsite release *(other than the 'puff' release)* occur, the towns of Richland and Kennewick may be subjected to a cloud of radioactive gases.

The NRC will begin to respond to the site upon the declaration of SAE; A two hour time lag is built in between the SAE and GE to allow NRC time to respond. As earlier stated, this scenario is geared such that at no time is there an appreciable offsite release of radioactivity except for the initial 'puff' release at the beginning of the scenario. A major challenge for the NRC will be to convince the State and County Agencies that no release is occurring.

Upon declaration of a GENERAL EMERGENCY and the subsequent arrival of the NRC players, there may be a tendency by participants to want to take a PASS sample from the remaining reactor core coolant. This is not an objective of the 1991 Exercise. Should the players give direction that a PASS be taken, the cognizant TSC Controller is to

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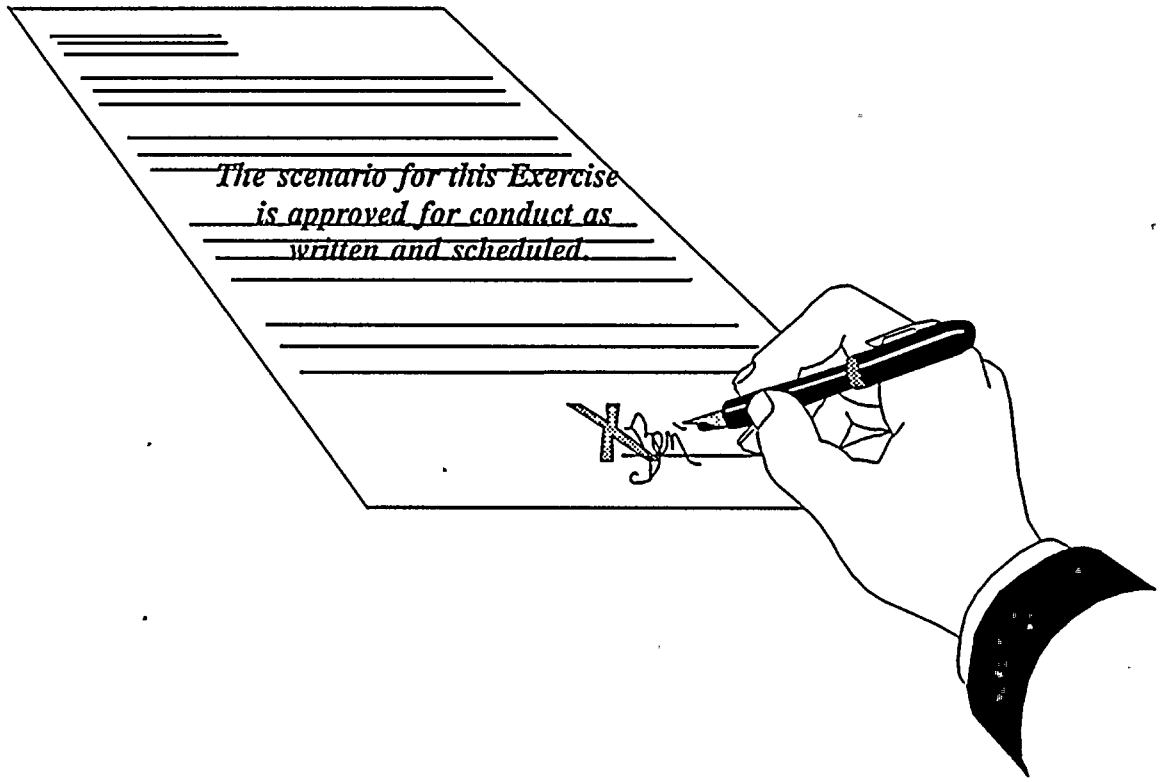
[10] There is a scenario option at this point to degrade Standby Gas Treatment efficiency to allow release of radio-iodines in conjunction with noble gasses should an offsite thyroid release be desired to drive offsite agency play. It was decided in the July 1,1991 meeting with the NRC in Walnut Creek not to exercise this option. With the exception of the initial "puff," no offsite release will occur at any point in the scenario. Normal design basis releases will occur through the Standby Gas Treatment System, which include noble gases, and 0.3% of the radioiodines.

[11] Category - Situation Based EAL for Plant Safety Barrier, Plant Safety Level, and Release of Radioactivity.

prevent the TSC players from directing that a sample be taken. Instead of taking action to obtain a sample, the activity is to be 'role-played' with the ostensible PASS results to be provided at 1600 hours (ie - after the Exercise is terminated). Pragmatically, a PASS sample at this time would not provide meaningful information. Since core degradation is continuing to occur, any sample from PASS will not provide useful information until we enter the post accident phase when the core is stabilized at approximately 1430 hours (Drill Completion.)

After several hours, the control rod blade will drop and backseat, effectively stopping the uncontrolled leakage. The vessel water level will stop dropping. Also, the Players will be allowed to repair the Standby Service Water reactor cross-tie valve RHR-V-116 and to reflood the core with Service Water. The emergency classification may then be downgraded to a Site Area Emergency based on recovery of one of the safety barriers, and the reflood of the core, which results in the source of fission products being cooled, which causes the driving pressure for the off gassing to be reduced. If Exercise objectives appear to have been met, the Exercise may then be terminated.

SECTION IIB
SCENARIO SIGNOFF
EXERCISE '91



WNP-2 Plant Manager	**Date**
Deputy Managing Director	**Date**
Manager, Support Services	**Date**

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SECTION IIC
TIME LINE SUMMARY
EXERCISE '91

TIME	ACTIVITY DESCRIPTION
0830	The Plant Emergency Team Controller and Shift Support Crew will meet in the Radwaste Control Room to prepare for the initial casualty of the exercise.
0845	Drill Start announcement made over Public Address systems.
0900	Scenario begins when a Refueling Machine failure causes a fuel bundle in the Spent Fuel Pool to become sheared. This results in a release of radioactive gases from the Spent Fuel Pool.
0900	The Shift Manager acting as the PED should declare an ALERT based on the radiation signal received in the reactor building. This is commonly refer to as the "Z" signal.
0901	The Reactor Building area radiation alarms begin to go off, and the Reactor Building Air fans trip. The reactor building is isolated, and Standby Gas Treatment System starts. As a result of these automatic actions, only a small amount of radioactive gases are released from the plant, but it will be enough for the field teams to mount a search for the effects.
0905 (approx)	The Control Room Supervisor will sound the Alert Tone, and announce the Emergency Classification and evacuation of the Reactor Building. If this does not occur, a DEFAULT MESSAGE is provided to cause this to happen. This is required, to force the next part of the scenario to occur.
0906	The Contractors working on the Control Rod Drive changeout, will hear the announcement to evacuate, and proceed to leave the area under the reactor vessel. As they leave, the CRD mechanism will fall to the deck below, and fail to seal. Water level in the reactor vessel will begin to drop rapidly. (Refer to Data Sheets 2a,b, & c)
0915	The declaration of an ALERT may occur as Early as 0901, but if not, a DEFAULT MESSAGE is provided to force this action at this time.

TIME	ACTIVITY DESCRIPTION
	In the last 15 minutes nearly 55,000 gallons of water has drained out of the reactor vessel, and level is still dropping. Because of this, the operating crew will be attempting to find a way to put water into the reactor vessel. Because of the possibility of the Operating Crew being overly conservative on their Emergency Classification, it is possible they will want to classify to a higher level. If this occurs, a DEFAULT MESSAGE is to be given to preclude this action, and force the scenario to play out as designed.
Free Play 0916	Starting at about this time and continuing on for the next several minutes, the operating crew will attempt to refill the reactor vessel. Their first attempt may be to realign the Residual Heat Removal (RHR) system so that it will inject water into the core. Just as they attempt to do this, the coupling between the motor and pump will break, and they will loose this source of makeup water. Assuming they start with RHR-P-2B above, the operating crew will next proceed to start the other RHR pump (RHR-P-2C), but it will fail to provide flow also. Realizing that the only source of water left is from the Service Water system which is still running, the operating crew will next attempt to open RHR-V-115, and RHR-V-116. RHR-V-115 will open, but RHR-V-116 will not. Following this continuous string of failures, the Operating Crew will ask for help from the OSC or TSC as each becomes activated.
0935 (approx)	The OSC, TSC, and MUDAC will begin to be activated. As they are, a Re-entry team or Plant Emergency Team will be asked to go out into the plant and determine what the causes for the various failures are. This will be free play controlled by the various controllers over the next several hours. They will not be allowed to repair anything until 1400 hours.
1000	As reactor water level goes below -161 inches, the PED should declare a SITE AREA EMERGENCY.
1015	A DEFAULT MESSAGE will be given if the PED does not declare a SITE

TIME	ACTIVITY DESCRIPTION
	AREA EMERGENCY by this time. Another DEFAULT MESSAGE preventing escalation to a GENERAL EMERGENCY will also be given if needed. This is required to allow the NRC players travel time prior to escalating the event.
1200	Since the reactor water level continued to decrease over the past two hours, the residual heat causes the cladding on the fuel in the core to fail and at 1200 hours, radioactive gases are released. This is indicated by increased radiation levels on the various monitors in the reactor building. As soon as this is discovered by the players, a GENERAL EMERGENCY should be declared.
1200 to 1430 hrs	There may be a request to take a sample using the Post Accident Sampling System during this time. Since this is not an objective of the drill, nor necessarily advisable, a DEFAULT MESSAGE will be given to preclude this action.
1215	A DEFAULT MESSAGE will be given if a GENERAL EMERGENCY has not been declared by this time.
1330	The leak in the Control Rod Drive Mechanism will heal itself, and water will stop draining out of the reactor vessel. This should be noticed by the Operating Crew and those in the TSC.
1400	Repair of RHR-V-116 will be completed, and the valve opened. Since Standby Service Water will still be running, water will begin to flow into the reactor, and level will begin to rise. (See Data Sheet 2b)
1430	If all the Exercise Objectives have been met, the 1991 Exercise will be terminated at this time. It is possible for the PED to downgrade from a General Emergency to a Site Area Emergency soon after the water has re-covered the core. Because of the short period of time between core coverage, and the end of the scenario, this may not happen.

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SECTION IID
MESSAGE INDEX
EXERCISE '91

MESSAGE NUMBER	RESPONSIBLE CONTROLLER	TIME	ITEM
1	Control Room (Simulator) & EOFCC	0845	Exercise start and announcement
2	Radwaste Control Room	0845	SSS reports fuel bundle shear
3	Control Room (Simulator) & TSC	0900-1200	Default Message - prevent classification higher than ALERT
4	Rx Bldg 501' (simulated)	0905/ after PA	CRD Maint. workers evacuate & report large leak
5	Control Room (Simulator)	0905	Default Message - sound Alarm tone to evac. Rx Bldg.
6	Control Room (Simulator)	0915	Default Message - declare ALERT due to "Z" signal
7	Control Room (Simulator)	0916/ when needed	Default Message - RHR and CRD system failures
8	TSC	1015	Default Message - declare SITE AREA EMERG. based on RPV level <-161"
8A	WA State EOC	1030 (est)	Message to request assistance of DOE Regional RAT Team
9	TSC	1010-1200	Default Message - prevent declaration of GENERAL EMERGENCY
10	TSC	1200-1430	Default Message - do not take a PASS sample
11	TSC	1215	Default Message - declare GENERAL EMERGENCY based on Situation based EALs
12	OSC	1400	Repair complete on RHR-V-116
13	TSC & EOFCC	1430	Exercise Termination Announcement

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91		PAGE ____ OF ____
MESSAGE NO. 1	TIME: REAL 0845 ☐AM ☐PM	DRILL 0000 HOURS
CONTROLLER LOCATION: CONTROL ROOM (SIMULATOR) & EOFCC		
CONTROLLER NAME	ORGANIZATION	

MESSAGE FOR ALL PERSONNEL

MESSAGE FROM PLAYER CONTROL ROOM SUPERVISOR & LEAD EOFCC CONTROLLERS

MESSAGE:

Please make the following announcements on the Plant and on the PSF PA's -

THIS IS AN EXERCISE . . . THIS IS AN EXERCISE . . .

THE 1991 EXERCISE IS NOW IN PROGRESS. PERSONNEL NOT IDENTIFIED AS PARTICIPANTS IN THE DRILL SHOULD CONTINUE WITH THEIR NORMAL WORK SCHEDULE.

THIS IS AN EXERCISE . . . THIS IS AN EXERCISE . . .

REFERENCE GENERAL DATA SHEETS

FOR CONTROLLER USE ONLY

Repeat this PA announcement approximately every hour.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 2 | TIME: REAL 0845 ☐AM ☐PM | DRILL 0000 HOURS

CONTROLLER LOCATION RADWASTE CONTROL ROOM

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR REFUELING FLOOR PLAYERS/SHIFT SUPPORT SUPERVISOR

MESSAGE FROM PET CONTROLLER

MESSAGE:

Hand out situational data sheet 9a and read the following message to the players:

THIS IS AN EXERCISE THIS IS AN EXERCISE

You are in the process of dechanneling bundle UD4145, (an ANF Lead Test Assembly) and moving it into the south fuel prep machine. With only a few more feet to go in raising the bundle out of the rack, the refueling machine operator's headset cord catches on the refuel platform motion switch, and the trolly moves about 4 or 5 feet. The fuel bundle that is still partially inserted into the rack, is now sheared, and very large bubbles are seen escaping from the bundle. Shortly thereafter, the pool surface is alive with the boiling action of bursting bubbles.

The refuel floor area radiation alarms go off and the Shift Support Supervisor gives orders to evacuate the refuel floor.

Using Situational Data Sheet 9a as an aid, the Shift Support Supervisor will be on the phone with the Shift Manager at 0857. Please take some time now to familiarize yourself with this information.

THIS IS AN EXERCISE THIS IS AN EXERCISE

REFERENCE GENERAL DATA SHEETS ____

FOR CONTROLLER USE ONLY

The PET Controller should get both the Shift Support Supervisor Player, and the Equipment Operator Players together in the Radwaste Control Room no later than 0830. After explaining this message to them, have the SSS call the simulator control room (X8978) and pretend he is on the bridge, and act out this scenario. The players should then proceed to the OSC.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 3 | TIME: REAL 0900 to 1200 ☐AM ☐PM | DRILL 0015 to 0315 HOURS

CONTROLLER LOCATION CONTROL ROOM AND TECHNICAL SUPPORT CENTER

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR PLANT EMERGENCY DIRECTOR

MESSAGE FROM TSC CONTROLLER & CONTROL ROOM CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

Classification to a SITE AREA or GENERAL EMERGENCY can not be made at this time. In the most conservative sense, a SITE AREA or GENERAL EMERGENCY could be classified based on the temporary failure of the radiation barriers. It is recognized that the decision to classify to a higher level is within your authority, however, we can not let this happen at this time in the Exercise. NOTE: An argument can be presented to show an SAE or GE are overly conservative. Since you still have containment well under control, and no threat exists for further releases, the definition and purpose for either of these classifications is not met.

REFERENCE GENERAL DATA SHEETS _____

FOR CONTROLLER USE ONLY

Use this message only if the Plant Emergency Director decides to upgrade to a Site Area or General Emergency prior to the times scheduled in the Exercise. If this occurs, it is anticipated to occur very soon after 0900 hours, so the Controllers should be looking for this.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 4 | TIME: 0905/after PA announcement 0020 | REAL ☐ PM | DRILL ☐ | HOURS

CONTROLLER LOCATION REACTOR BLDG; 501 ft. ELEVATION (Simulated)

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR CRD MAINTENANCE CONTRACTOR ROLE PLAYERS

MESSAGE FROM OSC CONTROLLER

MESSAGE:

THIS IS AN EXERCISE THIS IS AN EXERCISE

You work for a contractor, and are in the process of changing out 35 control rod drives this outage. Because this is a large task, you are under alot of pressure to perform, and have little time to waste. You are in the middle of removing a control rod drive mechanism.

Upon hearing the announcement to evacuate, you become very excited, and move rapidly to leave the area under the vessel. As you and your crew start to leave the area, you notice that the drive mechanism has dropped down onto the undervessel service platform, and large amounts of water are gushing down around the drive mechanism. It appears that the control rod backseat has failed to seat properly.

You continue to exit the area as directed, and as soon as you can, you call the control room and let the Shift manager know what has happened. Call the Control Room(Simulator) now, and then report to the OSC to answer further questions about this event.

THIS IS AN EXERCISE THIS IS AN EXERCISE

REFERENCE GENERAL DATA SHEETS ____

FOR CONTROLLER USE ONLY

The OSC Controller should have the role players call the control room (Phone Number X8978) to report what has happened. After an appropriate amount of time, the role players should then be directed to proceed to the OSC and report in. After answering the initial questions of the OSC players, the role players should be released to go back to their normal jobs. The R-6 outage plan originally called for removing 35 Control Rod Drive Mechanisms (CRDM), but these plans were changed to no CRDM work.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91		PAGE ____ OF ____
MESSAGE NO. 5	TIME: REAL 0905 ☐AM ☐PM	DRILL 0020 HOURS
CONTROLLER LOCATION CONTROL ROOM (SIMULATOR)		
CONTROLLER NAME	ORGANIZATION	

MESSAGE FOR CONTROL ROOM SUPERVISOR

MESSAGE FROM CONTROL ROOM CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

Please sound the Alarm tone, and make an announcement to evacuate the Reactor Building in accordance with your operating procedures.

REFERENCE GENERAL DATA SHEETS

FOR CONTROLLER USE ONLY

Use this message only if the Control Room Supervisor or Shift Manager fails to make the announcement based on inputs from the simulator. If the simulator malfunctions, or does not give him the high radiation alarms in the Reactor Building at the proper time, then tell him he has received these alarms and give him 10 minutes to respond.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91

PAGE ____ OF ____

MESSAGE NO. 6

TIME: REAL 0915 ☐AM ☐PM DRILL 0020 HOURS

CONTROLLER LOCATION CONTROL ROOM (SIMULATOR)

CONTROLLER NAME

ORGANIZATION

MESSAGE FOR SHIFT MANAGER

MESSAGE FROM CONTROL ROOM CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

The reactor building exhaust has been isolated due to a Hi rad signal ("Z" signal) from REA-RIS-609, and according to PPM 13.1.1 you need to declare an ALERT. Please proceed to do so at this time.

REFERENCE GENERAL DATA SHEETS

FOR CONTROLLER USE ONLY

Use this message only if the Shift Manager fails to classify the emergency according to the inputs on the simulator. If the simulator malfunctions, or does not give him the "Z" signal at the proper time, then tell him he has received this signal and then give him 10 minutes to respond.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91		PAGE ____ OF ____
MESSAGE NO. 7	TIME: REAL 0916/when needed ☐AM ☐PM | DRILL 0031 HOURS	
CONTROLLER LOCATION CONTROL ROOM (SIMULATOR)		
CONTROLLER NAME	ORGANIZATION	

MESSAGE FOR CONTROL ROOM SUPERVISOR/CREW

MESSAGE FROM CONTROL ROOM CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

1. The RHR pump 2B flow just went to zero.
2. The RHR pump 2C started, but the breaker tripped.
3. The CRD pump 2C can not be started, because the condensate and condensate storage tank supplies are not available.(This should be Red Tagged by the Controller prior to the Exercise)
4. Service Water Cross-tie Valve RHR-V-115 can be opened.
5. Service Water Cross-tie Valve RHR-V-116 can not be opened.

This will result in a situational exercise with OSC personnel. Refer to the situational data sheets 9b,c, and d for further information.

REFERENCE GENERAL DATA SHEETS _____

FOR CONTROLLER USE ONLY

If the simulator does not provide the proper information, read message 1, and then use the other messages as the operating crew tries to start each of the listed pumps. The failure mode is unknown to the control room, and as the OSC personnel search to find out, they will find the only near term solution is to fix RHR-V-116.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 8 | TIME: REAL 1015 ☐AM ☐PM | DRILL 0130 HOURS

CONTROLLER LOCATION TECHNICAL SUPPORT CENTER

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR PLANT EMERGENCY DIRECTOR

MESSAGE FROM TSC OR CONTROL ROOM CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

The reactor water level dropped below -161 inches at 10:00 am. According to PPM 13.1.1 this constitutes a SITE AREA EMERGENCY. Please take necessary action at this time.

REFERENCE GENERAL DATA SHEETS

FOR CONTROLLER USE ONLY

Use this message only if the PED fails to classify the emergency according to the inputs from the simulator. If the simulator malfunctions, or does not give him the low reactor water level signal at the proper time, then tell him he has received this signal and give him 15 minutes to respond.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 8A | TIME: REAL 1030*(est)* ☐AM ☐PM | DRILL 0145*(est)* HOURS

CONTROLLER LOCATION Washington State EOC

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR DOE Richland Emergency Control Center

MESSAGE FROM Washington State EOC Controller

MESSAGE:

EOC CONTROLLER:

After having received the Classification Notification Form (CNF) from the Supply System for a Site Area Emergency, the WA State EOC would, as standard operating procedure, contact Department of Energy - Richland - to notify them of the event.

Upon (or while) the State EOC is doing the above, instruct them to do the following:

In addition to notifying DOE-RL of the event (in accordance with the Classification Notification Form), the WA State EOF is to further request the assistance of the DOE Regional Radiological Assessment Team (RAT Team) in evaluating the radiological consequences of the event at the WNP-2 Site.

REFERENCE GENERAL DATA SHEETS ____

FOR CONTROLLER USE ONLY

Washington State EOC Controller - actual message content to DOE - RL is at the discretion of the State EOC player contacting DOE. The intent is for O-DOE to be notified of the simulated Site Area Emergency in order to realistically dispatch their personnel to respond to the event.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO.	PAGE
Exercise '91	____ OF ____

MESSAGE NO.	TIME: REAL	☐ AM ☐ PM	DRILL	HOURS
9	1010-1200		0125-0315	

CONTROLLER LOCATION: TECHNICAL SUPPORT CENTER

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: PLANT EMERGENCY DIRECTOR

MESSAGE FROM: TSC CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

Classification to a GENERAL EMERGENCY can not be made at this time due to scenario limitations. It is recognized that this decision is within your authority, and may be valid, however, we can not let this happen at this time. Please continue to watch the plant paramenters and situations, and when you believe a change in classification is necessary, please check with me again. Thank You.

REFERENCE GENERAL DATA SHEETS: _____

FOR CONTROLLER USE ONLY

Use this message only if the PED attempts to classify a GENERAL EMERGENCY prior to 12:00 noon. The controller needs to be very close to the PED during this 2 hour window to make sure they do not re-classify prior to 1200. This is necessary to allow the NRC travel time to play.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 10 | TIME: REAL 1200 to 1430 ☐AM ☐PM | DRILL 0315 to 0530 HOURS

CONTROLLER LOCATION TECHNICAL SUPPORT CENTER

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR RADIATION PROTECTION MANAGER

MESSAGE FROM TSC CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

Do not take a PASS sample. This is not in the objectives for this exercise, so it will not be performed. PASS Sample results will be simulated being given to you at 1600 hours. Also, it is important to recognize that a PASS sample is POST ACCIDENT, and would not normally be taken until the core has been covered and core cooling re-established.

REFERENCE GENERAL DATA SHEETS _____

FOR CONTROLLER USE ONLY

Use this message only if the Radiation Protection Manager or others attempt to use the PASS to obtain a sample. Since core degradation will continue to occur until reflood occures near the end of the exercise, any sample from PASS would not provide useful information.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 11 | TIME: REAL 1215 ☐AM ☐PM | DRILL 0330 HOURS

CONTROLLER LOCATION TECHNICAL SUPPORT CENTER

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR PLANT EMERGENCY DIRECTOR

MESSAGE FROM TSC CONTROLLER

MESSAGE:

THIS IS A DEFAULT MESSAGE

The plant safety level has degraded due to the rapidly increasing levels of radiation on the refuel floor, and throughout the reactor building. A GENERAL EMERGENCY should be declared because of Situation Based EALs for Plant Safety Barrier, Plant Safety Level, and Release of Radiation. Refer to Attachment 4.3 of PPM 13.1.1. Please proceed to declare a GENERAL EMERGENCY at this time.

REFERENCE GENERAL DATA SHEETS _____

FOR CONTROLLER USE ONLY

Use this message only if the Plant Emergency Director fails to classify the emergency according to the inputs from the simulator. If the simulator malfunctions, or does not give him the increasing radiation signals at the proper time, then tell him he has received this information, and give him 15 minutes to respond.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91

PAGE _____ OF _____

MESSAGE NO. 12

TIME: 1400 REAL ☐ AM ☐ PM | DRILL 0500 HOURS

CONTROLLER LOCATION MOCKUP LOCATION

CONTROLLER NAME

ORGANIZATION

MESSAGE FOR OSC REENTRY TEAM AT RHR-V-116

MESSAGE FROM OSC CONTROLLER

MESSAGE:

You have completed your repair of the motor operator on RHR-V-116.

REFERENCE GENERAL DATA SHEETS _____

FOR CONTROLLER USE ONLY

As you approach 1400 hours let the players that are fixing the valve start having some success such that just before this time they will be done, and will call the OSC and let them know the valve is fixed, and that the Control Room should try to open the valve.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION

SCENARIO MESSAGES

DRILL NO. Exercise '91 | PAGE ____ OF ____

MESSAGE NO. 13 | TIME: REAL 1430 ☐AM ☐PM | DRILL 0545 HOURS

CONTROLLER LOCATION: TECHNICAL SUPPORT CENTER & EOFCC

CONTROLLER NAME | ORGANIZATION

MESSAGE FOR ALL PERSONNEL

MESSAGE FROM TSC ADMINISTRATIVE MANAGER & LEAD EOFCC CONTOLLER

MESSAGE:

Please make the following announcements on the Plant and on the PSF PA's -

THIS IS AN EXERCISE . . . THIS IS AN EXERCISE . . .

THE 1991 EXERCISE IS NOW TERMINATED. PERSONNEL IDENTIFIED AS PARTICIPANTS IN THE DRILL SHOULD RETURN TO THEIR EMERGENCY CENTER TO CONDUCT A POST-DRILL CRITIQUE

THIS IS AN EXERCISE . . . THIS IS AN EXERCISE ..

REFERENCE GENERAL DATA SHEETS

FOR CONTROLLER USE ONLY

LEAD TSC CONTROLLER AND EOFCC CONTROLLER: Request this message be read after the Lead Scenario Controller determines the Exercise is complete. Do Not make this request until the Lead Scenario Controller has contacted you.

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SECTION II-E

GENERAL DATA SHEET INDEX

EXERCISE '91

DATA SHEET SECTION	ITEM
1	INITIAL PLANT CONDITIONS
2	REACTOR AND PLANT DATA
3	FIXED MONITOR READINGS
4	IN-PLANT DOSE RATES
5	DOSE RATES IN PLANT VICINITY
6	METEOROLOGICAL DATA
7	FIELD TEAM DATA
8	PLANT LAB & HP CENTER DATA
9	SITUATIONAL EVENT DATA

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

.L NO.	Exercise '91	PAGE ____ of ____
SHEET NO. 1	RESPONSIBLE CONTROLLER (LOCATION) ALL	
VALID FOR TIMES OF: REAL TIME ALL DAY ☐AM ☐PM TO ☐AM ☐PM	DRILL TIME ALL DAY HOURS TO HOURS	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO INITIAL PLANT CONDITIONS FOR PLAYERS	

DATA SHEET	ITEM
1a	Historical Data for All Players - Initial Plant Conditions
1b	Historical Data for Select CR (Sim.), OSC, TSC, SSDC, & TDC Staffs - Initial Plant Conditions
1c	Exercise Start Conditions for Operational Staffs (CR [Sim.], RW Control Rm) - Initial Plant Conditions
1d	Exercise Start Conditions for Refueling Floor Crew (RB 606') - Initial Plant Conditions

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

D ...L NO. Exercise '91		PAGE 1 of 2
SHEET NO. 1a	RESPONSIBLE CONTROLLER (LOCATION) ALL	
VALID FOR TIMES OF: REAL TIME ALL DAY ☐AM ☐PM TO ☐AM ☐PM	DRILL TIME ALL DAY HOURS TO HOURS	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO INITIAL PLANT CONDITIONS HISTORICAL DATA FOR ALL PLAYERS[1]	

1. Time Of Year - Monday, April 22, 1991

2. The Plant has recently come down from successful long-term operation in order to perform the sixth refueling and maintenance outage (R-6).

3. As of the date in item 1 above, the Plant has been in cold shutdown for nine (9) days and the Outage is well underway. Most refueling activities inside the core have been completed, and de-channeling operations are being performed in the Spent Fuel Pool.

4. In-vessel inspection has revealed a crack on a dryer separator bracket, and the reactor cavity has been isolated from the fuel pool and dryer separator pit so it can be drained and the bracket inspected and repaired. Water level has been lowered to the top of the reactor vessel flange, and the reactor cavity washed to prevent airborne activity.

5. A maintenance crew is working under the vessel removing a control rod drive mechanism. These are contractor personnel, who are performing this task for the first time at WNP-2.

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[1] CONTROLLER NOTE: It is acceptable for the playing personnel to share this data with whomever they please after having received it.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise '91	2 of ___

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
1a	ALL

VALID FOR TIMES OF: REAL TIME			DRILL TIME		
ALL DAY	☐ AM ☐ PM TO	☐ AM ☐ PM	ALL DAY HOURS	TO	HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	INITIAL PLANT CONDITIONS HISTORICAL DATA FOR ALL PLAYERS

6. An operations crew is working on the refuel floor de-channeling Advanced Nuclear Fuel (ANF) 9 by 9 experimental fuel bundles for inspection. The bundles were placed in the core during the R-4 outage. A Division I (Bus SM-7) outage is taking place, precluding operation of all Division I Emergency Core Cooling Systems (ECCS) and monitoring equipment. The Division I Local Leak Rate Testing has just been completed, and the systems are drained down for maintenance activities. The condensate system is drained and out of service for the next 36 days. In addition, the HPCS pump is out of service due to failed pump bearings. Parts are on order, and it should be back in service in about 10 days.

7. Over the weekend, the retrofill bus outages for transformers TR-53 and TR-63 were delayed due to clearance order/grounding breakers. The electrical system is currently on 500KV backfeed.

8. The Plant is manned for a normal (Outage) day shift operation. In addition to a full complement of Operations Supervision, Reactor Operators and Equipment Operators, there are also additional contract HP technicians on duty. The Plant maintenance staff has been augmented by temporary employees, as well as many building trade craft employed by the Site Support Contractor.

9. Weather conditions for the last few days have been very typical for the season . . . cool with light winds.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
	Exercise '91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
1b	CR (Simulator), OSC, TSC

VALID FOR TIMES OF:					
REAL TIME	☐ AM 0700 TO ☐ AM 0700	☐ PM	☐ PM	DRILL TIME	0000 HOURS TO 0000 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Initial Plant Conditions - Historical Data[1] for Select CR (Sim.), OSC, & TSC Staffs

1. Refer to attached "R-6 OUTAGE DAILY WORK SCHEDULE" dated April 22, 1991

2. A copy of this schedule should be provided to the following:

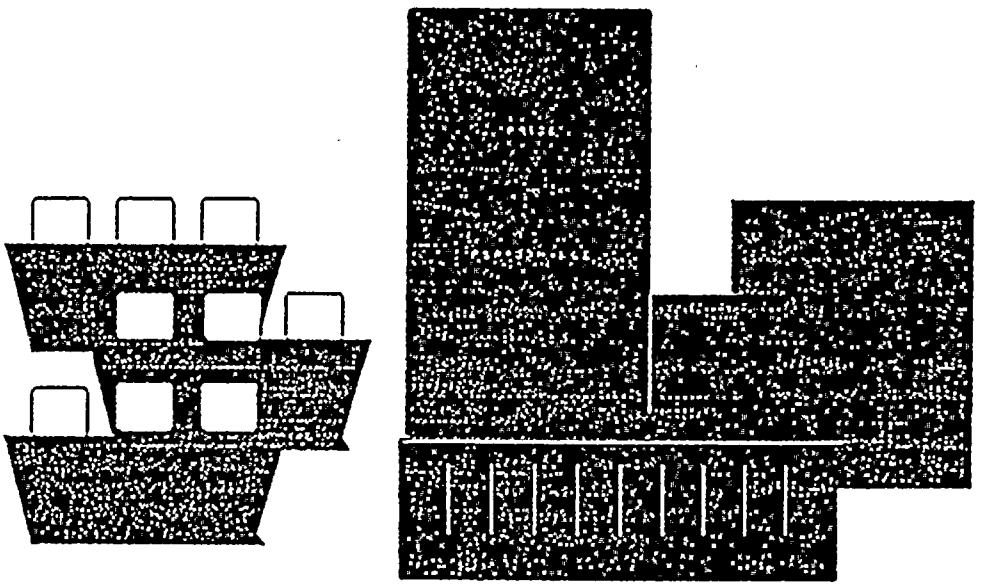
   a. OSC Director
   b. TSC Director
   c. TSC Administration Manager
   d. Shift Manager (Simulator)
   e. Plant Emergency Director
   f. Radiation Protection Manager
   g. TSC Operations Manager

[1] CONTROLLER NOTE: Provide the appropriate listings, as specified above, only to the personnel specified. It is acceptable for the personnel to share this data with whomever they please after having received it.

WNP-2

R-6 OUTAGE
DAILY WORK SCHEDULE

APRIL 22, 1991
MONDAY



PRIDE IN PERFORMANCE

Exercise '91 Data sheet 1B
Attachment

R-6 OUTAGE (DAY 9)
MONDAY, APRIL 22, 1991

I. Outage/Maintenance windows opening in next 3 days (mo-we):

o	Main Condenser	0000 Mo
o	HPCS Maintenance	0000 Mo
o	CAS Maintenance	0000 Mo
o	SM-7 Maintenance	0000 Mo
o	LPCS/RHR-A	0500 Mo
o	DIV 1 HVAC/Misc Maintenance	0500 Mo
o	Condensate	0500 Mo
o	RFW LLRT	0500 Mo
o	RWCU LLRT	0500 Mo
o	CIA LLRT	0800 Mo
o	CRA Maintenance	0800 Mo
o	SW-A	1700 Mo
o	CW	0000 Tu
o	AR/OG	0000 Tu
o	HPCS LLRT	0500 Tu
o	DIV 3 HVAC/Misc Maintenance	0500 Tu
o	CIA	0800 Tu
o	RFW	1700 Tu
o	HPCS-SW	0500 Tu
o	DG-3	0500 Tu
o	RWCU	0500 We

II. Outage/Maintenance windows closing in next 3 days :

o	SH-6	0600 Mo

III. Major Activities

o	ANF 9X9 Fuel inspection	
o	SM-7 Outage	
o	LPCS/RHR-A following LLRT	
o	DG-3 testing	0500 Mo
o	HPCS system repairs	

IV. Outage Concerns

- o DG-1 repair
- o Decon RW 437' (painting 4/17-4/27)
- o Main Turbine Blade Cracks

V. Mainline Schedule Changes

- o CIA outage begins Tuesday 0800 Tu

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 22 APR 91

SHOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
	COND/HX 02	O 2 PM COND-HX-9 PERFORM MAIN CONDE	2RTW
	DIV1/DGENG 01	O 4 PM/ESS DRAIN/REFILL DIESEL JACK	2RTW
	ECB/RS 01	O 1 PM E-CP-RS+ VERIFY OPR CONTROLS	2RTW
	OPS/SCH 21	O 4 PM OPS-SCHD-1 FUNCTIONAL TEST	2RTW
	7.4.0.5.18	O 1 SURV HPCS SW OPERABILITY	1RTW
	7.4.0.5.7	O 1 SURV LPCS/RCIC VALVE OPERABILIT	2RTW
	7.4.1.5.1	O 1 SURV SLC VALVE LINEUP	1RTW
	7.4.6.1.4.1B	O 1 SURV MSIV LEAKAGE CONTROL DIV 2	1RTW
	7.4.8.1.1.2.11-O	O 1 SURV DG-2 OPERABILITY	1RTW
	7.4.8.1.1.3B	O 1 SURV DO-TK-3B OPERABILITY	1RTW
	7.4.8.3.2	O 1 SURV AC/DC BRKR ALIGNMENT	1RTW
	7.4.9.1	O 1 SURV REFUEL MODE SWITCH	1RTW
TECH	AR1950	T 2 E-TR-1/11 REPLACE GASKETS & RET	2WWI
	AR1953	T 2 E-TR-5/53 REPLACE GASKETS & RET	2RTW
	AR1954	T 2 E-TR-6/63 REPLACE GASKETS & RET	2RTW
	E/TR/S 01	T 4 PM BPA PERFORM ANNUAL ACCESSORY	2RTW
	X103/1	T 3 LLRT CAC SYSTEM (CAC-V-13	2RTW
	X14/1(A/F)	T 3 LLRT RWCU SYSTEM (RWCU-V-1 & 4)	2RTW
	X17A/1	T 3 LLRT RFW SYSTEM (RFW-V-10A)	2RTW
	X17A/2(A/F)	T 3 LLRT RFW/RWCU SYS (RFW-V-65A/B,	2RTW
	X17A/4	T 3 LLRT RFW SYSTEM (RFW-V-32A)	2RTW
	X17B/1	T 3 LLRT RFW SYSTEM (RFW-V-10B)	2RTW
	X17B/2	T 3 LLRT RFW SYSTEM (RFW-V-32B)	2RTW
	X56/1	T 3 LLRT CIA SYSTEM (CIA-V-21)	2RTW
	X56/3(A/F)	T 3 LLRT CIA SYSTEM (CIA-V-20)	2RTW
	X89B/1(A/F)	T 3 LLRT CIA SYSTEM (CIA-V-30A)	2RTW
	X89B/2	T 3 LLRT CIA SYSTEM (CIA-V-31A)	2RTW
	X91/1(A/F)	T 3 LLRT CIA SYSTEM (CIA-V-30B)	2RTW
	X91/3	T 3 LLRT CIA SYSTEM (CIA-V-31B)	2RTW
	X97/1	T 3 LLRT CAC SYSTEM (CAC-V-15	2RTW
I/C	AR0917	I A TMU-FIS-5C WON'T MAKEUP TO ALLO	SRTW
	AR2397	I 3 CAC-PT-68B REPLACE TERMINAL STR	3RTW
	AR2404	I 3 E-TIS-1/11/49 HIGH TEMPERATURE	3RTW
	AR2491	I 3 DO-PT-11A REPLACE ROSEMOUNT TRA	2RTW
	AR2555	I 3 PI-COMP-1 INSTALLATION OF NEW V	2RTW
	AR2630	I A SEIS-TR-3 CLOCK TRACK SIGNAL &	1RTW
	AR2802	I 3 COND-CP-DM/1+ INSTALL ISOLATION	2RTW
	AR3470	I 3 SW-PS-38A DUAL POWER SUPPLIED T	2RTW
	AR3471	I 3 SW-PS-38B DUAL POWER SUPPLIED T	1RTW
	BSPS1 01	I 4 PM CALIB TURB TRIP HYDRA PRESSU	2RTW
	CACFT 01	I 2 PM/EQQ CALIB PER INSTRU MASTER	2RTW
	CSPAO 01	I 2 PM/EQQ LEAK TEST AIR OPERATORS	2RTW
	DCWSYS 01	I 4 PM CALIB DCW DIV-1 PER 10.24.20	2RTW
	HYPS/TS 02	I 4 PM RRC-B HYDRAULIC CONTROL SYS	2RTW
	MSLCPIS 01	I 2 PM/EQQ MSLC-PIS-60 CALIBRATION	2RTW
	RRCFC648B 01	I 2 PM/ESS RRC-FC-648B CALIBRATION	2RTW
	7.4.3.1.1.36	I 3 SURV IRM-EMSQ-601G IRM CHAN-G C	2RTW
	7.4.3.1.3.13	I 3 RTT MS-LIS-24B RX VSL LOW LEVEL	2RTW
	7.4.3.2.1.1	I 1 SURV DIV 1 CHANNEL ISOL ACTIVAT	1RTW
	7.4.3.2.1.16C	I 3 SURV REA-RIS-609C SEC CNMT ISOL	2RTW

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 22 APR 91

IOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
I/C	7.4.3.2.1.16D	I 3 SURV REA-RIS-609D SEC CNMT ISOL	2RTW
	7.4.3.2.1.81	H 3 SURV REA-RIS-609A RADIOLOGICAL	2RTW
	7.4.3.2.1.82	H 3 SURV REA-RIS-609B RADIOLOGICAL	2RTW
	7.4.3.2.1.83	H 3 SURV REA-RIS-609C	2RTW
	7.4.3.2.1.84	H 3 SURV REA-RIS-609D RADIOLOGICAL	2RTW
	7.4.3.7.11.13	I 3 SURV FD-RIS-1 TB SUMP T-1 RAD M	2RTW
	7.4.3.7.11.3	I 1 SURV LIQ RADWASTE MONIT EFFLUEN	2RTW
	7.4.3.7.2.1.2	I 3 SURV SEIS- TRIAXIAL TIME HIST	2RTW
	7.4.6.3.4.2	I 3 SURV PC & SUP POOL EXCESS FLOW	2RTW
ELEC	AR0635	E 9 E-SYS-1 MAINTAIN MCC'S & LOAD C	1SIP
	AR0666	E 2 WOA-FN-1B COMPLETE WIRING AT TH	2RTW
	AR1958	T 2 E-TR-7/71 REPLACE GASKETS & RETROFILL	2WWI
	AR1960	T 2 E-TR-7/73 REPLACE GASKETS & RETROFILL	2WWI
	AR3511	E 3 E-CB-71/7B SHORT TIME DELAY ADJUSTMEN	2RQC
	AR2155	E 3 E-TR-7/73 PULL BOXES MISSING SCREWS A	2RTW
	AR2448	E A COND-MO-142B NO INDICATION ON V	3MRE
	AR3218	E 3 MS-MO-146 PERFORM MOVATS BASELI	2RTW
	AR3219	E 3 MSLC-MO-1A PERFORM MOVATS BASEL	2RQC
	AR3220	E 3 MSLC-MO-1B PERFORM MOVATS BASEL	2RQC
	AR3221	E 3 MSLC-MO-1C PERFORM MOVATS BASEL	2RQC
	AR3445	E 3 E-CB-5B1B INST. TRIP ADJUSTMENT	2RTW
	AR3446	E 3 E-CB-6B1D INST. TRIP ADJUSTMENT	2RTW
	AR3806	E 2 FP-UVD-19/1A DETECTOR FAILED TO	2RTW
	BU/SW 01	E 1 PM BU-SWA3/SWS1 PERF MONTHLY OP	2RTW
	CACEHO 01B	E 2 PM/EQQ CAC LUBRICATION/CALIBRAT	2RTW
	CCHRLYTK 01	E 4 PM CCH-RLY-TK/P1B CLEAN/INSPECT	2RTW
	CRAMFN 02	E 2 PM/EQQ CONTAINMENT RETURN AIR S	2RTW
	E/CB/6/B1D	E 4 PM PERFORM 8 YEAR INSULATION TE	2RTW
	E/CB/6B1D	E 4 PM PERFORM INSULATION TEST	2RTW
	E/GEN1 01-35	E 3 PM MAIN GEN TASK 1-35 INSPECTIO	2RTW
	E/MC/S/2D	E 4 PM CLEAN CUBICLE/TIGHTEN ELEC C	2RTW
	E/MC/6	E 4 PM CLEAN CUBICLE/TIGHTEN ELEC C	2RTW
	E/TR/5 01	E 4 PM TRANSFORMER 2 YR INSPECTION	2RTW
	ECB6/63	E 4 PM CLEAN/INSPECT/EXCERCISE BREA	2RTW
	EDP 01	E 4 PM CLEAN/INSPECT/OPERATE PANELS	2RTW
	ESH 80	E 4 PM/PRE SWITCH GEAR PREDICTIVE M	2RTW
	EVM 01	E 4 PM VOLTMETER CALIBRATION	2RTW
	HTCNTR 01	E 2 PM/EQQ CLEAN/INSP/EXERCISE CONT	2IP
	HTRLY 01	E 2 PM/EQQ HT/RLY/MSLC/A/B/C INSPEC	2RTW
	LPCS 02	E 2 PM/EQQ PERF LUBRICATION/INSPECT	2RTW
	LPCS 03	E 2 PM/EQQ REPL LUB/OIL DRAIN	2RTW
	RHRM/P2A 03	E 2 PM/EQQ INSPECT RHR-M-P/2A	2RTW
	RHRM/P2A 05	E 2 PM/EQQ INSPECT END-TURN SUPPORT	2RTW
	RHRMO/A 02	E 2 PM/EQQ PERFORM LUB/INSPECTION	2RTW
	RRCMO16B 02	E 4 PM/EQE RRC-MO-16B LUBE/INPSECT	2RTW
	SWMO/A 02	E 2 PM PERFORM LUB/INSPECTION	2RTW
	SWMO/E 02	E 2 PM/EQQ PERFORM LUBRICATION/INSP	2RTW
	WOA/RLY/TK/FN1A	E 4 PM TIME DELAY RELAY INSPECTION	2RTW
	WRERLY 01	E 3 PM WASTE BLDG REFRIG SYS CALIBR	2RTW

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 22 APR 91

SHOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
ELEC	288/205/01	T 3 FIELD WALK DOWN TO VERIFY TERM	2RTW
	7.4.8.2.1.16	E 3 SURV E-B1-1 INSPECTION/FUNCTION	2RTW
	7.4.8.4.2.11A	E 3 SURV 6.9KV BKR S-5 TRIP CKT FUN	2RTW
	7.4.8.4.2.11B	E 3 SURV 6.9KV BKR S-6 TRIP CKT FUN	2RTW
	7.4.8.4.2.2A	E 3 SURV 6.9KV BKR N2-5 SYS FUNCTIO	2RTW
	7.4.8.4.2.2B	E 3 SURV 6.9KV BKR N2-6 SYS FUNCTIO	2RTW
	7.4.8.4.4.1	E 3 TSS RPS A CALIBRATIONS	2RTW
MECH	AR0502	M 2 SW-RV-1A REMOVE AND TEST PER TS	2RTW
	AR0504	M 3 CSP-RV-51 REMOVE AND TEST PER P	2RQC
	AR0505	M 3 CSP-RV-52 REMOVE AND TEST PER P	2RQC
	AR0511	M 2 DSA-RV-5A REMOVE AND TEST PER P	2RQC
	AR0574	M 3 DCW-RV-1A1 REMOVAL OF DCW RELIE	2MRE
	AR0768	M 3 BS-V-8B PERIODIC INSPECTION OF	2RTW
	AR0874	M 2 COND-P-2A INBOARD MECHANICAL SE	2RTW/P
	AR1581	M 4 MS-SYS-1 INSTALL SCREW IN SPARE	1RTW/P
	AR1699	M 2 COND-RV-124 VALVE LIFTING CONTI	3RQC
	AR1863	M 2 COND-P-1A PERIODIC MAINTENANCE	2MRM
	AR2104	M 3 HV-V-31B BONNET SEAL LEAK	3RTW
	AR2109	M 3 MS-TCV-115C PACKING LEAK	3RTW
	AR2584	M 3 MS-AO-22C REPLACE ACTUATOR WITH	2RQC3
	AR2666	M 3 BS-AO-52A AIR LEAKING PAST PIST	3RTW
	AR3497	M 4 RRC-HO-60B ADJUST VALVE BALL PO	2RTW
	AR3529	M 3 HV-V-31B REPACK PER CHESTERTON	2RTW
	AR3568	M 2 R-SYS-1 CLEAN REACTOR VESSEL ST	2RTW
	AR3636	M 1 MT-HOI-19B PAWL IS BROKEN	2TR
	BST 01	M 2 PM BS-T-1 REPLACE/CHK TRAP INTE	2IP
	CONDHX 04	M 4 PM PERFORM VISUAL INSPECTION OF	2RTW
	ESMO 03	M 4 PM ES-MO-2A/2B PERF LUB & INSPE	2RTW
	HDV 01	M 4 PM DISASSEMBLE/INSPECT INTERNAL	2RTW
	HDV 04	M 4 PM DISASSEMBLE/INSPECT INTERNAL	2RTW
	MST 01	M 2 PM MS SYS STEAM TRAPS	2IP
	RHRMO123A 03	M 2 PM/EQE INSPECT/LUBE RHR-MO-123A	2RTW
	SATP 02	M 2 PM SAT-P-1A/1B REPAIR DURING OU	2RTW
	SST 01	M 2 PM SS-T-6A/6B/7A REPLACE INTERN	2IP
	7.4.8.1.1.2.4	M 3 SURV DG-ENG-1C VERIF OF INSPECT	2RTW
BCI	AR0005	C 4 CL-SYS-1 MODIFY PIPING PER BDC	2RTW
	AR0141	C 3 BS-V-71 VALVE LEAKS BY	3RTW
	AR1485	C 3 SW-SYS-1 INSTALL NEW X-TIE VALV	3RTW
	AR1587	C 3 SW-LT-1A REPLACE EXISTING ELECT	2RTW
	AR1673	E 3 SEC-SYS-1 PROVIDE ELEC MAINTENA	1RQC
	AR2129	C 4 MS-TK-4A INSTALL NEW ACCUMULATO	2RTW/P
	AR2513	C 3 E-CP-LSP/S3+ INSTALL NEW SUPERV	2RTW
	AR2556	C 3 RRC-SYS-1 INSTALL NEW RRC PUMP	2RTW
	AR2594	C 3 E-CP-LSP/S1+ INSTALL RING LUGS	2RTW
	AR2852	C 3 E-CP-DG/REP1+ INSTALL AC CONTRO	2RTW/P
	AR2856	C 3 E-CP-H13/P601+ REPLACE RECORDER	2RQC
	AR3020	C 4 HD-LCV-4A1 PERFORM PREVENTATIVE	2IP
	AR3021	C 4 HD-LCV-4B1 PERFORM PREVENTATIVE	2IP
	AR3028	C 4 HD-LCV-6A1 PERFORM PREVENTATIVE	2IP
	AR3029	C 4 HD-LCV-6B1 PERFORM PREVENTATIVE	2IP

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 22 APR 91

SHOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
BCI	AR3328	C 3 FP-ZONE-53A MODIFY RFW PUMP ROO	2RTW
	AR3336	C 3 TSW-HX-6A OPEN AND INSPECT TSW	2RTW
	AR3415	C 2 HD-HGR-1 MODIFY SUPPORTS	2EH
VENDOR	AR0609	V 2 E-GEN-1 HOUSING IS LEAKING AN O	2RTW
	AR1332	V 3 HD-MO-15F MOTOR OPERATOR REQUIR	2RQC
	AR1335	V 3 HD-MO-15E MOTOR OPERATOR REQUIR	2RQC
	AR1336	V 3 HD-MO-19A MOTOR OPERATOR REQUIR	2RQC
	AR1389	V 3 MS-DT-1C DISASSEMBLE & REPLACE	2RTW
	AR1392	V 3 MS-V-GV/4 DISASSEMBLE & INSPECT	2RTW
	AR1397	V 3 MS-SYS-1 OPEN MANWAYS FOR TIGER	2RQC
	AR3142	V 3 RRC-MO-16B REFURBISH MOTOR OPER	2RQC
	AR3343	V 3 HV-MO-31B REFURBISH MOTOR OPERA	2RQC
	AR3345	V 3 HV-MO-31D REFURBISH MOTOR OPERA	2RTW
	AR3346	V 3 HV-MO-31E REFURBISH MOTOR OPERA	2RTW
	AR3347	V 3 HV-MO-31F REFURBISH MOTOR OPERA	2RTW
	AR3527	V 3 HD-V-19B REPACK PER CHESTERTON	2RTW
	AR3528	V 3 HV-V-3B REPACK PER CHESTERTON V	2RTW
	AR3531	V 3 HV-V-31D REPACK PER CHESTERTON	2RTW
	AR3532	V 3 HV-V-31E REPACK PER CHESTERTON	2RTW
	AR3533	V 3 HV-V-31F REPACK PER CHESTERTON	2RTW
	AR3543	V 3 RHR-V-16A REPACK PER CHESTERTON	2RTW3
	AR3548	V 3 RHR-V-68A REPACK PER CHESTERTON	2RTW/P
	AR3549	V 3 RHR-V-74A REPACK PER CHESTERTON	2RTW
	AR3551	V 3 RRC-V-16B REPACK PER CHESTERTON	2RTW
	AR3608	V 3 RHR-V-47A REPACK PER CHESTERTON	2RTW3
OTHER	7.1.3	O 2 SURV IODINE PARTICULATE & TRITI	1RTW
	7.4.4.4.1	O 2 SURV RX COOLANT PH, CHLORIDE, C	1RTW
	7.4.4.5.1	O 2 SURV RX COOLANT SPECIFIC ACT DE	1RTW
	7.4.8.1.1.2.3B	O 2 SURV DIESEL GEN STORAGE TK FUEL	1RTW

RECORDS SELECTED = 180

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 23 APR 91

.OP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
OPS	OGSYS/O 01	O 4 PM OG-SYS-1 DRAIN/FLUSH 5 LOOP	2RTW
	7.4.0.5.15	O 1 SURV CIA VALVE OPERABILITY	1RTW
	7.4.1.3.5.1	O 1 SURV CR SCRAM ACCUM OPER	1RTW
I/C	AR0650	I 2 RHR-FT-15A REPLACE TRANSMITTER	2RTW
	AR1082	I 3 SCI-CRM-1 BACKPLANE HAS BROKEN	3RTW
	AR2514	I 3 E-TIS-2/21/49 SPURIOUS HI TEMP	2RTW
	AR3073	I 4 COND-TE-521B TEMP ELEMENT INDIC	2RTW
	DIV3/DO/I 01	I 4 PM DIESEL OIL SYSTEM CALIBRATIO	2RTW
	OGH2R 02	I 1 PM OG-H2R-605 CLASS A ANNUAL MA	2RTW
	OGSYS 02	I 2 PM OG-FR-620 CLASS A ANNUAL MAI	2RTW
	RRCSYS/B 01	I 2 PM/EQQ RRC CALIBRATION	2RTW
	SOPI 01	I 2 PM GEN SO/SEAL CALIBRATION	2RTW
	7.4.3.1.1.37	I 3 SURV IRM-EMSQ-601H IRM CHAN-H C	2RTW
	7.4.3.3.3.3	I 3 RTT MS-PS-47A&C HPCS ACT ON DW	2RTW
	7.4.3.7.11.15	I 3 SURV FD-RIS-2 TB SUMP T-2 RAD M	2RTW
ELEC	AR0050	E 2 CIA-MO-20 TEST & SET UP TO MEET	2RQC
	AR0051	E 2 CIA-MO-30A TEST & SET UP TO MEE	2RQC
	AR0179	E 3 COND-MO-141A REPLACE LONG STUD	2RTW
	AR0713	E 3 RPS-RLY-K11C REPLACE HFA RELAYS	2RTW
	AR1110	E 2 E-MC-S1/1D+ PERFORM RESISTANCE	2RQC
	AR1599	E A OG-V-149B "PURGE AIR ON" LIGHT	3RTW
	AR1709	E 2 CF-SPV-120 BLOWING AIR BADLY	3WPT/P
	AR2027	E A OG-HX-1A HEATER CONTINUES TO BL	3RTW
	AR2077	E 2 MSLC-M-FN/1 MOTOR & PILLOW BLOC	SRTW
	AR2146	E 3 COND-MO-144 TORQUE SWITCH NEEDS	3RQC
	ECP 01	E 4 PM E-CP-H13/P800+ CALIBRATE	2RTW
	ECP 03	E 4 PM E-CP-H13/P800+ CALIBRATE	2RTW
	ECP 04	E 4 PM E-CP-H13/P800+ CALIBRATE	2RTW
	HPCS 01	E 3 PM HPCS-M-P/2 LUBRICATION	2RTW
	HPCS/M 02	E 3 PM HPCS/M/P/2 OIL SAMPLE	2RTW
	HPCS/WHM 01	E 1 PM HPCS-WHM-R004 PERFORM PPM 10	2RTW
	RHR/RLY/K93A	E 4 PM INSPECT CALIBRATE	2RTW
	RRCRLY/B 01	E 4 PM RX RECIRC SYS RELAY CALIBRAT	2RTW
	SWMO/C 02	E 2 PM SW-MO-4C LUB/INSPECTION	2RTW
	SWMO/3 02	E 2 PM/EQQ PERFORM LUBRICATION/INSP	2RTW
	7.4.3.7.5.42	E 3 SURV ACCI MON INSTR - E-GEN-1 V	2RTW
	7.4.3.7.5.58	E 3 SURV ACC MON INST-TRANS FOR DG-	2RTW
	7.4.8.2.1.18	E 3 SURV E-B2-1 INSPECTION/FUNCTION	2RTW
MECH	AR0333	M 2 AR-SYS-1 REPLACE WITH 1 1/2" ST	2RTW
	AR1070	M 2 DSA-V-7A LEAKS BY THE VALVE SEA	2RTW
	AR1093	M 2 MS-V-160A INSPECT/REBUILD STEAM	2RQC
	AR1101	M 2 SO-RV-280 LEAKS THRU AT NORMAL	2TQC/P
	AR1984	M 3 MS-V-181A PACKING LEAK	3RTW
	AR2230	M 3 DLO-P-4A1 LEAKS OIL	2RTW
	AR2231	M 3 DLO-P-4A2 LEAKS OIL	2RTW
	AR2352	M 2 MS-V-110B PACKING LEAK (STEAM)	3RTW
	AR2723	M 2 MS-V-711A VALVE STEM STRIPPED,	2RQC
	AR2770	M 2 DG-ENG-1C GOVERNOR OIL SIGHTGLA	3RTW
	DEHTK 01	M 3 PM/ESS CONTROL SYS HIGH PRESS A	2RTW

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 23 APR 91

IOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
MECH	DIV3/DGENG 09	M 4 PM DG-ENG-1C INSPECTION	2RTW
	DIV3/DGENG 12	M 4 PM DG-ENG-1C INSPECTION	2RTW
BCI	AR0843	C 2 CAC-V-321B VALVE HANDWHEEL WILL	3RTW
	AR1120	C 3 TMU-DLT-7 REPLACE EXISTING OBSO	2RTW
	AR1541	I 3 SO-PI-279 REPLACE GAGE WITH 0-3	SWPT/P
	AR2505	C 3 CAS-DY-1A INSTALL NEW AIR DRYER	2RTW
	AR2596	C 3 HPCS-B1-DG3 INSPECT BATTERIES F	2RTW
	AR2813	C 3 OG-HX-1A OPEN UP HEAT EXCHANGER	2RTW
	AR2814	C 3 OG-HX-1B OPEN UP HEAT EXCHANGER	2RTW
	AR2815	C 3 OG-HX-2 OPEN UP HEAT EXCHANGER,	2RTW
	AR2829	C 3 TG-TR-144 INSTALL TRANSMITTERS	2RTW/P
	AR3088	C 4 HD-LCV-4B2 VALVE LEAKING PAST P	2RQC
	AR3095	C 4 HD-LCV-7A2 VALVE LEAKING PAST P	2RQC
	AR3192	C 3 E-CP-H13/P811+ REPLACE EXISTING	2RQC
	AR3284	C 3 HD-LCV-11A2 VALVE LEAKING PAST	2RQC
	AR3288	C 3 HD-LCV-7B2 VALVE LEAKING PAST I	2RQC
	AR3654	C 3 HD-LCV-4C1 REFURBISH VALVE AND	2RQC
VENDOR	AR0450	V 3 RHR-MO-16A GREASE DOES NOT APPE	2RQC
	AR0489	V 3 RHR-MO-6A GREASE IS BADLY OXYDI	2RQC
	AR3331	V 3 MS-V-101A PACKING LEAK	3MRE
	AR3520	V 3 COND-V-142B REPACK PER CHESTERT	2RTW3
	AR3530	V 3 HV-V-31C REPACK PER CHESTERTON	2RTW
	AR3599	V 3 HV-V-31G REPACK PER CHESTERTON	2RTW

RECORDS SELECTED = 72

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 24 APR 91

SHOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
OPS	CBD-V 01	O 4 PM/ESS CBD-V-3 CYCLE VLV 3 CYCL	2RTW
	CIAV 01	O 4 PM/ESS CIA-V-37E CYCLE VLV/BIND	2RTW
	DIV3/DGENG 01	O 4 PM/ESS DRAIN/REFILL DIESEL JACK	2RTW
	7.4.3.1.1.22	O 1 SURV MANUAL SCRAM CFT	1RTW
	7.4.5.1.6	O 1 SURV HPCS VALVE LINEUP	1RTW
	7.4.7.1.1.3	O 1 SURV HPCS VALVE POSITION VERIFI	1RTW
TECH	AR1952	T 2 E-TR-3/31 REPLACE GASKETS & RET	2WWI
	MECH/SCH 11	T 4 PM MECH-SCHD-1 INSPECT C.W. BAS	2RTW
	X23/1	T 3 LLRT EDR SYSTEM (EDR-V-20)	2RTW
	X23/2	T 3 LLRT EDR SYSTEM (EDR-V-19)	2RTW
I/C	AR0850	I 2 DCW-TI-2A2 TEMP GAUGES ARE DIFF	SRTW
	AR2374	I 2 SW-LI-1A REPLACE SCALES ON INDI	2RTW
	AR2462	I 3 HPCS-FT-5 REPLACE TRANSMITTER T	3RTW
	AR2784	I 2 RFW-FCV-10A REWIRE 2 TDAS INPUT	2RTW
	AR3070	I 4 RFW-TE-53B TEMP ELEMENT INDICAT	2RTW
	AR3072	I 4 COND-TE-515A TEMP ELEMENT INDIC	2RTW
	AR3416	I A HD-LS-7BL LEVEL SWITCH SETPOINT	2RQC
	HPCS/PI 01	I 4 PM HPCS/PI/601 CALIBRATE DISCH	2RTW
	HPCS/PT 01	I 2 PM/EQQ HPCS/PT/4 CALIB DISCH PR	2RTW
	OGSYS 01	I 4 PM OFF GAS SYS CALIBRATION	2RTW
	OGSYS/I 01	I 3 PM OFF GAS SYSTEM	2RTW
	7.4.3.1.3.21	I 3 RTT TTV CLOSURE TRI CH A1	2RTW
	7.4.3.7.11.17	I 3 SURV FD-RIS-3 TB SUMP T-3 RAD M	2RTW
ELEC	AR0017	E A RFW-V-102B OPEN SIGNAL CASUED A	2RTW
	AR0053	E 2 LPCS-MO-1 TEST & SET UP TO MEET	2RQC
	AR0056	E 2 LPCS-MO-5 TEST & SET UP TO MEET	2RQC
	AR0559	E 3 RHR-MO-73A POSSIBLE OVERHEATED/	2RQC
	AR0604	E 2 CW-P-1C PUMP FAILED TO START 5	3RQC
	AR1126	E 2 E-MC-S2/1B CABLE DOES NOT MEET	2RTW
	AR1500	E 3 E-DP-S1/1C CIRCUIT 6 CIRCUIT BR	3RTW
	AR1743	E 2 E-B2-1 PINK CELL, REPLACE BATTE	3RTW
	AR2003	E 1 HPCS-MO-1 APPLY LOCKTITE 242 TO	3RTW
	AR2005	E 1 HPCS-MO-10 APPLY LOCKTITE 242 T	3RTW
	AR2006	E 1 HPCS-MO-11 APPLY LOCKTITE 242 T	3RTW
	AR2638	E 3 E-B2-1 REPLACE BATTERY JARS 9/1	2RQC
	AR2660	E A RFT-VBAM-1A GOV BEARING VIBRATI	2RQC
	AR3224	E 3 RRC-MO-16B PERFORM MOVATS BASEL	2RQC
	AR3838	E 2 RRC-MO-16B VALVE POSITION INDIC	2WWI
	CACRLY 01B	E 2 PM/EQQ INSPECT INDICATION RELAY	2RTW
	CIARLYTDS 01	E 2 PM/EQQ CLEAN/INSPECT/CALIBRATIO	2RTW
	CSPRLY 01	E 2 PM/EQQ INSPECT CONTROL RELAYS	2RTW
	DIV3/EDP 01	E 4 PM E-DP-S1/HPCS+1 CLEAN/INSPECT	2RTW
	DIV3/EPP 01	E 4 PM E-PP-4A+ CLEAN/INSPECT PANEL	2RTW
	HPCS/AM 01	E 4 PM HPCS/AM CALIBRATION	2RTW
	HPCS/M 01	E 4 PM HPCS-M-P/2 & P/3 CLEAN/INSPE	2RTW
	HPCS/M 03	E 2 PM/EQQ HPCS/M/P/1 REPL LUB/O/RI	2RTW
	HPCS/M 05	E 2 PM/EQQ HPCS/M/P/1 MTR DR HPCS/P	2RTW
	HPCS/MO 02	E 2 PM/EQQ MTR OPR LUB/INSPECT	2RTW
	HPCS/RLY 01	E 4 PM HPCS/RLY SYS CALIBRATION	2RTW

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES SCHEDULED TO START ON 24 APR 91

SHOP	ACTIVITY	SHOP/PRI/EPN/DESCRIPTION	STATUS
ELEC	HPCS/VM 01	E 4 PM HPCS VOLTMETER CALIB	2RTW
	HPCS/VTD 01	E 4 PM HPCS TRANSDUCERS CALIB	2RTW
	HPCS/42 01	E 4 PM HPCS/42 FUNCTIONAL TEST	2RTW
	RFWMO 02	E 2 PM/EQQ RFW-MO-65A/65B LUB & INS	2RTW
	RHRA/62/1	E 4 PM INSPECT CALIBRATE	2RTW
	RWCUM 01	E 2 PM/ESS RWCU-M-V/4 REPLACE SPLIC	2RTW
	RWCUMO 02	E 2 PM/EQQ RWCU-MO-1 PERF LUB/INSPE	2RTW
	7.4.8.2.1.10	E 3 SURV E-B1-HPCS INSPECTION/FUNCT	2RTW
MECH	AR0770	M 3 BS-V-8F PERIODIC INSPECTION OF	2RTW
	AR1010	M 3 COND-V-119A INSPECT & REPLACE P	2RTW
	AR1266	M 2 RFW-V-111B DRAIN VALVE 1" FOR R	2RTW
	AR1423	M 3 COND-P-1B SUSPECT SEAL FAILURE	2RTW
	AR1612	M 3 COND-RV-183B ANTICIPATE SEAT LE	2RQC
	AR1613	M 3 COND-RV-184 ANTICIPATE SEAT LEA	2RQC/P
	AR2235	M 3 DLO-P-7 LEAKS OIL	2RTW
	AR2854	M 3 CSP-RV-51 INSTALL FLANGES ON IN	2RQC
	AR2996	M 2 HPCS-MO-10 STAKE LOCKNUT, INVES	2RTW
	AR3315	M 3 RFW-P-1A RFW-P-1A OUTBOARD BEAR	2WWI
	AR3721	T 2 RFW-V-44A REPLACE SOCKET WELD C	2WWI
	AR3835	M A SO-V-259 VALVE APPEARS TO BE LE	1RQC
	DIV3/DMA/M 01	M 4 PM DIESEL BLDG MIXED AIR SYS IN	2RTW
	HPCS/P 01	M 2 PM/EQQ HPCS/P/3 LUB COUPLING AN	2RTW
	HPCS/PI 03	M 2 PM/EQQ HPCS/P/3 CHANGE PUMP LUB	2RTW
	HPCS/V 01	M 4 PM HPCS/V/51 CLEAN/LUB	2RTW
	RFWMO 03	M 2 PM/EQQ RFW-MO-65A/65B LUB & INS	2RTW
	RFWV 01	M 2 PM/EQQ REPLACE SOFT SEAT/CLEAN	2RTW
	RWCUMO 03	M 2 PM/EQQ RWCU-MO-1/4/40 INSPECT/L	2RTW
OTHER	AR3409	L 3 CW-CT-1A+ REMOVE SILT AND ALGAE	2RQC
	AR3411	L 3 CW-CT-1C+ REMOVE SILT AND ALGAE	2RQC
	AR3414	L 3 CW-CT-2C+ REMOVE SILT AND ALGAE	2RQC
BCI	AR0724	C 3 CW-V-13B PACKING LEAK	3RTW
	AR2361	C 2 COND-HX-9 OPEN WATER BOXES FOR	2RTW
	AR2371	C 2 RFW-HX-6A EDDY CURRENT & AIR PR	2RTW/P
	AR2372	C 2 RFW-HX-6B EDDY CURRENT & AIR PR	2RTW/P
	AR3087	C 4 HD-LCV-4A2 VALVE LEAKING PAST P	2RQC
	AR3090	C 4 HD-LCV-5B2 VALVE LEAKING PAST P	2RQC
	AR3099	C 4 HD-LCV-10A2 VALVE LEAKING PAST	2RQC
	AR3287	C 3 HD-LCV-5A2 VALVE LEAKING PAST I	2RQC
	AR3338	C 3 TSW-HX-6E OPEN AND INSPECT TSW	2RTW
VENDOR	AR1229	V 2 RHR-MO-4A MOTOR OPERATOR REQUIR	2RQC
	AR1393	V 3 MS-V-TV/4 REMOVE THROTTLE VALVE	2RTW
	AR2681	V 2 RHR-MO-47A MOTOR REQUIRES CLEAN	2RQC
	AR2685	V 2 RHR-MO-68A REPLACE MOTOR OPERAT	2RQC
	AR3534	V 3 HV-V-31H REPACK PER CHESTERTON	2RTW
	AR3536	V 3 HV-V-39A REPACK PER CHESTERTON	2RTW
	AR3552	V 3 RWCU-V-40 REPACK PER CHESTERTON	2RTW
	AR3796	V 2 RWCU-V-1 PACKING LEAK	2RTW
OTHER	7.4.4.5.2	O 2 SURV RX COOLANT ISOTOPIC ANALYS	1RTW

RECORDS SELECTED = 97

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES THAT ARE WORKING

ACTIVITY #	SHOP/PRI/EPN/DESCRIPTION	STATUS	ACTUAL START	SCHED FINISH
7.4.3.9.2	O 3 SURV FEEDWTR TURB TRIP ACT ON	2RTW	21APR91	21APR91
7.4.8.1.1.1.2	O 3 SURV S/U TO B/U STATION MANUA	2RTW	21APR91	21APR91
AR3382	T 2 E-TR-S REPLACE CONTROL WIRING	2IP	A16APR91	22APR91
LLRT(FILLER)	T 3 LLRT FILLER WORK	2IP	A15APR91	30APR91
AR1177	I A MS-POI-4D THE EDGE CARD CONNE	2IP	A16APR91	29APR91
AR3803	I 1 CF-FCV-111 VALVE WOULD NOT OP	1OC	A17APR91	23APR91
AR1914	I A LD-TRS-624 TE-24J INPUT TO LD	3IP	A18APR91	24APR91
AR3173	I A WHCO-LS-1 ALARMS CONTINUOUSLY	SIP	A18APR91	23APR91
AR3857	I A IRM-EMSQ-601B READING DOWNSCA	2IP	A18APR91	22APR91
AR0269	I 3 MS-SYS-1 REMOVE TEMPORARY RTD	2IP	A19APR91	23APR91
AR2618	I 3 TEA-AD-15B DAMPER APPEARS TO	3IP	A19APR91	23APR91
AR2776	I 3 MS-FT-33A REPLACE TRANSMITTER	2IP	A19APR91	22APR91
AR3622	I 2 FPC-FCV-1 CONNECT DEDICATED A	2IP	A19APR91	23APR91
AR1168	I A SEIS-SMA-3 REPLACE WITH 1.0g	2IP	A20APR91	29APR91
AR3618	T 2 COND-SPV-42 CONNECT DEDICATED	2IP	A20APR91	23APR91
7.4.1.3.5.2	I 3 SURV SCRAM ACCUM LEAK & PRESS	2IP	A20APR91	16MAY91
7.4.3.7.2.1.3	I 3 SURV SEIS- PEAK ACCEL RCDR P	2IP	A20APR91	23APR91
7.4.3.1.31	I 1 SURV NEUTRON FLUX HIGH-HIGH T	2RTW	21APR91	22APR91
HDSYS1	I 4 PM HEATER DRAIN SYSTEM	2IP	A15APR91	16MAY91
ESSYS 01	I 4 PM CALIB PRESS SW/TRANS/TEMP	2IP	A17APR91	23APR91
01	I 4 PM MISC DRAIN SYSTEM CALIBRAT	2IP	A17APR91	25APR91
MSSYS 01	I 4 PM MAIN STEAM SYS INSPECT/CAL	2IP	A17APR91	08MAY91
DIV1/DLO/I 01	I 4 PM DIESEL LUBE OIL SYSTEM CAL	2IP	A18APR91	06MAY91
DIV1/DO/I 01	I 4 PM DIESEL OIL SYS CALIBRATION	2IP	A18APR91	23APR91
AR0636	E 9 E-SYS-1 MAINTAIN EMERGENCY LI	1SIP	A20SEP90	21SEP91
AR2207	E 2 E-SYS-1 LIGHTS & FIXTURES IN	3IP	A16APR91	22APR91
AR1121	E 2 WMA-FU-54B "2" POWER LAMPS NO	3MRC	A17APR91	22APR91
AR3740	E 2 SMA-M-FN/51 INBOARD MOTOR BEA	1MRE	A17APR91	23APR91
AR0634	E 9 ANN-SYS-1 PERFORM MAINTENANCE	1SIP	R17APR91	09OCT91
AR0140	E 3 BS-SPV-5A WON'T RESET, BLOWS	3OH	A18APR91	22APR91
AR0665	E 2 WOA-FN-1A COMPLETE WIRING AT	2MRE	A21APR91	24APR91
AR2200	E 9 FP-SYS-1 PERFORM ESSENTIAL FI	1SIP	A21APR91	15MAY91
AR3698	E 2 DLO-M-P/2A1 REPLACE DLO PUMP	2IP	A21APR91	22APR91
AR3710	E 2 DLO-M-P/2A2 REPLACE MOTOR/COU	2IP	A21APR91	22APR91
7.4.8.4.3.1	E 3 SURV CALIBRATE 25% OF VALVE T	2IP	A16APR91	03MAY91
7.4.8.2.1.12	E 3 SURV E-BO-1A INSPECTION/FUNCT	2RTW	21APR91	22APR91
MSLC/MO 02	E 2 PM/EQQ MSLC MTR OPR LUB & INS	2IP	A15APR91	27APR91
MSMO 02	E 5 PM MAIN STEAM SYS MOTOR OPR I	2IP	A15APR91	06MAY91
WRARLY 01	E 3 PM WASTE BLDG RETURN AIR CALI	2RTW	A15APR91	22APR91
MSLC/RLY 01	E 2 PM/EQQ MSLC CONTROL INTRLK IN	2IP	A16APR91	23APR91
WRETM 01	E 3 PM WASTE BLDG REF SYS TIMER C	2IP	A16APR91	02MAY91
E/RLY/81G	E 4 PMM CALIBRATE OVERCURRENT REL	2IP	A17APR91	22APR91
E-RLY-87G	E 4 PM DIFFERENTIAL RELAY CALIBRA	2IP	A18APR91	22APR91
[illegible]294	M 3 R-SYS-1 REMOVE RX SHIELD BLOC	2FWC	A14APR91	22APR91
.292	M 3 MS-RPV-3 REACTOR VESSEL HEAD,	2FWC	A15APR91	22APR91
AR3641	M 2 FDR-P-15B PUMP MOTOR WILL STA	1IP	A17APR91	24APR91
AR2189	M 3 MS-RV-1C POSSIBLE SEAT LEAKAG	2IP	A19APR91	23APR91
AR2237	M 3 DLO-V-14A2 LEAKS OIL	2IP	A19APR91	22APR91

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES THAT ARE WORKING

ACTIVITY #	SHOP/PRI/EPN/DESCRIPTION	STATUS	ACTUAL START	SCHED FINISH
AR3175	M 3 MS-RV-116D RELIEF VALVE DUE F	2IP	A19APR91	24APR91
AR2112	M 3 MS-V-108B PACKING LEAK	3IP	R19APR91	22APR91
AR3341	M 3 S-SYS-1 MODIFY EXISTING HATCH	1IP	R19APR91	23APR91
AR0394	M 2 DG-ENG-1A2 ENGINE HAS #20 INJ	2IP	A20APR91	23APR91
AR2188	M 3 MS-RV-1B POSSIBLE SEAT LEAKAG	2IP	A20APR91	25APR91
AR3842	M 1 DG-GEN-DG1 FAB EXTERNAL LUBE	2IP	A20APR91	25APR91
AR1366	M 3 MS-V-715A HANDWHEEL & STEM RO	2IP	R20APR91	22APR91
AR2127	M 3 HD-LT-11A LEVEL TRANSMITTER H	3IP	R20APR91	22APR91
FPSYS 04	M 4 PM/ESS PERF ANNUAL INSPECTION	2IP	A16APR91	23MAY91
AR0210	C 3 EDR-SYS-1 LEAK DETECTION ORIF	1IP /H	A10DEC90	16JUL91
AR1060	C 4 FP-SYS-1 COMPLETE EXTENSION O	1IP	A19FEB91	30APR91
AR1460	C 3 SEC-SYS-1 UPGRADE SECURITY LI	1IP	A25FEB91	24APR91
AR1681	C 3 SEC-SYS-1 PROVIDE TRENCHING T	1IP	A25FEB91	20MAY91
AR1805	C 3 SEC-SYS-1 UPGRADE SECURITY LI	1IP	A25FEB91	22APR91
AR3119	C 3 SEC-SYS-1 SURVEY AREA BETWEEN	1IP	A04MAR91	20JUN91
AR1457	C 3 SEC-SYS-1 MODIFY FENCE AS REQ	1IP	A06MAR91	28JUN91
AR1458	C 3 SEC-SYS-1 MODIFY CCTV SYSTEM	1IP	A14MAR91	12JUN91
AR2934	C 3 SEC-SYS-1 INSTALL NEW FENCE	1IP /P	A25MAR91	28JUN91
AR1456	C 3 SEC-SYS-1 MODIFY MICROWAVE ID	1IP /P	R25MAR91	31MAY91
AR0024	C 2 TSW-SYS-1 REPLACE BUTTERFLY I	2IP	A26MAR91	24MAY91
AR0683	C 3 TIP-DRVE-1A INSTALL TIP WATTM	1IP	A26MAR91	03MAY91
1852	C 3 SEC-SYS-1 SUPPORT INSTALLATIO	1IP	A27MAR91	29MAY91
AR3422	C 3 SEC-SYS-1 EXCAVATE & INSTALL	1IP /P	A27MAR91	06JUN91
AR1853	C 3 SEC-SYS-1 SUPPORT INSTALLATIO	1IP	A01APR91	31MAY91
AR1856	C 3 SEC-SYS-1 SUPPORT ACCESS/EGRE	1IP /P	A01APR91	31MAY91
AR3515	C 4 MECH-SCHD-1 FAB VARIOUS SIZE	1IP	A04APR91	26APR91
AR2511	C 3 E-CP-LSP/S2+ PERFORM PRE OUTA	1IP	A08APR91	15MAY91
AR3560	C 3 E-SYS-1 RETRIEVE DISTRIBUTION	1IP	A08APR91	22APR91
AR0019	C 3 SA-RV-265 REPLACE RELIEF VALV	2IP /P	A10APR91	02AUG91
AR2366	C 2 E-SYS-1 PROVIDE TEMP POWER TO	2IP	A10APR91	31MAY91
AR3312	C 3 CAS-SYS-1 INSTALL TEMPORARY C	2IP /P	A10APR91	04JUN91
AR3419	C 4 MECH-SCHD-1 CONNECT TEMP MECH	1IP	A10APR91	07JUN91
AR3670	C 2 CBD-SYS-1 INSTALL 12" PVC BLO	1IP	A11APR91	20MAY91
AR2359	C 2 COND-HX-5A PM EDDY CURRENT &	2IP /P	A15APR91	10MAY91
AR2360	C 2 COND-HX-5B PM EDDY CURRENT &	2IP /P	A15APR91	10MAY91
AR2433	T 3 MECH-SCHD-1 PROVIDE CRAFT SUP	2IP	A15APR91	01JUN91
AR2824	C 3 SA-SYS-1 ADD ADDITIONAL SA OU	2IP /P	A15APR91	03JUN91
AR2826	C 3 SS-EV-1A OPEN FOR TUBE EDDY C	2IP	A15APR91	13MAY91
AR2968	C 3 BS-DV-2A1 VALVE LEAKING PAST	2IP	A15APR91	22APR91
AR2969	C 3 BS-DV-2A2 VALVE LEAKING PAST	2IP	A15APR91	22APR91
AR3009	C 4 BS-DV-2C1 VALVE LEAKING PAST	2IP	A15APR91	22APR91
AR3010	C 4 BS-DV-2C2 VALVE LEAKING PAST	2IP	A15APR91	22APR91
AR3719	C 2 W-SYS-1 PROVIDE SEVICE AIR IN	2IP	A15APR91	17JUN91
AR1883	C 3 E-CP-CS1+ FABRICATE DOORS FOR	1IP	R15APR91	29APR91
AR0847	C 1 COND-HX-9 REPLACE THE 'A' FLE	2IP /P	A15APR91	07MAY91
AR1088	C 2 E-GEN-1 BUSHING FAILURE CAUSE	2IP	A15APR91	20MAY91
AR1089	C 2 E-GEN-1 BUSHING FAILURE CAUSE	2IP	A15APR91	17MAY91
390	C 3 MS-HX-1B OPEN SHELLSIDE MANWA	2IP	A15APR91	15MAY91
AR2362	C 2 COND-HX-9 OPEN CONDENSER MANW	2IP	A15APR91	17MAY91
AR2768	C 3 E-CP-H13/P823+ REPLACE MET-TR	2IP	A15APR91	15MAY91
AR2971	C 3 BS-DV-5A VALVE LEAKING PAST I	2IP /P	A15APR91	22APR91

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES THAT ARE WORKING

ACTIVITY #	SHOP/PRI/EPN/DESCRIPTION	STATUS	ACTUAL START	SCHED FINISH
AR2973	C 3 BS-DV-6A VALVE LEAKING PAST I	2IP	A15APR91	22APR91
AR2974	C 3 BS-DV-6B VALVE LEAKING PAST I	2IP /P	A15APR91	22APR91
AR2434	C 3 MECH-SCHD-1 PROVIDE FOR ERECT	2IP	A16APR91	30MAY91
AR2436	C 3 MECH-SCHD-1 PERFORM EXTERIOR	2IP	A16APR91	13MAY91
AR2771	C 3 E-LP-1AA LIGHT FIXTURES BROKE	3IP	A16APR91	29MAY91
AR2772	C 4 E-LP-2RA LIGHT FIXTURES BROKE	3IP	A16APR91	29MAY91
AR2858	C 3 RFW-TR-1 REPLACE RECORDER	2IP	A16APR91	08MAY91
AR2972	C 3 BS-DV-5B VALVE LEAKING PAST I	2IP /P	A16APR91	22APR91
AR3012	C 4 BS-DV-3A2 VALVE LEAKING PAST	2IP	A16APR91	22APR91
AR1108	C 3 E-CP-H13/P813+ REPLACE EXISTI	2IP	A17APR91	14MAY91
AR1109	C 4 E-CP-H13/P826+ REMOVAL OF WOA	2IP	A17APR91	30MAY91
AR2024	C 3 E-CP-H13/P824+ REPLACE EXISTI	3IP	A17APR91	09SEP91
AR2766	C 3 CMS-TR-5 REPLACE CMS-TR-1, 3,	2IP	A17APR91	02MAY91
AR2767	C 3 CMS-TR-6 REPLACE CMS-TR-2, 4,	2IP	A17APR91	02MAY91
AR3011	C 4 BS-DV-3A1 VALVE LEAKING PAST	2IP	A17APR91	22APR91
AR3013	C 4 BS-DV-3C1 VALVE LEAKING PAST	2IP	A17APR91	23APR91
AR3014	C 4 BS-DV-3C2 VALVE LEAKING PAST	2IP	A17APR91	23APR91
AR1387/S	V 3 MS-DT-1C L.P. CRAWL THRU AND	2IP	A18APR91	27MAY91
AR1391/S	V 3 MS-V-166B DISASSEMBLE & INSPE	2IP	A18APR91	21MAY91
AR1392/S	V 3 MS-V-GV/4 DISASSEMBLE & INSPE	2IP	A18APR91	27MAY91
AR1393/S	V 3 MS-V-TV/4 REMOVE THROTTLE VAL	2IP	A18APR91	27MAY91
AR1396/S	V 3 MS-V-TV/4 REPLACE SERVO VALVE	2IP	A18APR91	22APR91
[illegible]1434/S	V 3 MS-DT-1B REPAIR LEAK AROUND F	2IP	A18APR91	25MAY91
[illegible]1751	C 4 T-SYS-1 INSULATION IS MISSING	3IP	A18APR91	05MAY91
AR1752	C 4 T-SYS-1 INSULATION IS DAMAGED	3IP	A18APR91	02MAY91
AR2345	C 3 E-CP-RS+ PERFORM EQUIP. MODIF	2RTW	A18APR91	29APR91
AR2348	C 2 E-MC-5A INSTALL TEMPORARY CAL	2IP	A18APR91	01MAY91
AR2365	C 2 CW-SYS-1 INSTALL ONE TEMPORAR	2IP	A18APR91	24APR91
AR2435	T 3 MECH-SCHD-1 REPLACE SNUBBERS	2IP	A18APR91	25MAY91
AR2522	C 3 SA-SYS-1 INSTALL CONNECTION F	2IP	A18APR91	30APR91
AR2820	C 3 RFT-SYS-1 INSTALL RFT-LOC-1A	2IP	A18APR91	10MAY91
AR2821	C 3 RFT-SYS-1 INSTALL RFT-LOC-1B	2IP	A18APR91	10MAY91
AR2970	C 3 BS-DV-2B2 VALVE LEAKING PAST	2IP	A18APR91	23APR91
AR3015	C 4 BS-DV-4A VALVE LEAKING PAST P	2IP	A18APR91	23APR91
AR3016	C 4 BS-DV-4B VALVE LEAKING PAST P	2IP	A18APR91	23APR91
AR3017	C 4 BS-DV-4C VALVE LEAKING PAST P	2IP	A18APR91	23APR91
AR3113	C 3 EDR-V-18 REPLACE VALVES	2IP	A18APR91	01MAY91
AR1107	C 2 E-CP-H13/P812+ REPLACE EXISTI	2IP	A19APR91	30APR91
AR2046	C 3 E-MC-6B+ PROVIDE TEMPORARY PO	2IP	A19APR91	23APR91
AR2857	C 3 E-CP-H13/P672+ REPLACE RECORD	2IP	A19APR91	24MAY91
AR2990	C 3 RFW-FCV-2A VALVE LEAKING PAST	2IP	A19APR91	24APR91
AR2991	C 3 RFW-FCV-2B VALVE LEAKING PAST	2IP	A19APR91	24APR91
AR3094	C 4 HD-LCV-6B2 VALVE LEAKING PAST	2IP	A19APR91	24APR91
AR3096	C 4 HD-LCV-8A2 VALVE LEAKING PAST	2IP	A19APR91	25APR91
AR3097	C 4 HD-LCV-9A2 VALVE LEAKING PAST	2IP	A19APR91	25APR91
AR3098	C 4 HD-LCV-9B2 VALVE LEAKING PAST	2IP	A19APR91	25APR91
AR3100	C 4 HD-LCV-11B2 VALVE LEAKING PAS	2IP	A19APR91	25APR91
AR3289	C 3 HD-LCV-8B2 VALVE LEAKING PAST	2IP	A19APR91	25APR91
[illegible]3631	C 3 T-SYS-1 INSTALL NEW CONCRETE	1IP /P	A19APR91	02MAY91
AR1461	C 3 SEC-SYS-1 REFURBISH WNP-1/4 T	1IP	R19APR91	23APR91
15.3.5	B 3 SURV FIRE DAMPER INSPECTION	1IP	R18APR91	24APR91
AR1385	V 4 T-SYS-1 STAGE C-VANS, TOOLS,	2IP	A13MAR91	26APR91

WNP-2 DAILY WORK SCHEDULE SUMMARY

ACTIVITIES THAT ARE WORKING

ACTIVITY #	SHOP/PRI/EPN/DESCRIPTION	STATUS	ACTUAL START	SCHED FINISH
AR2793	V 3 FPC-MO-181B REFURBISH MOTOR O	1IP	A01APR91	22APR91
AR1387	V 3 MS-DT-1C L.P. CRAWL THRU AND	2IP	A13APR91	29APR91
AR1388	V 3 MS-DT-1A DISASSEMBLE FOR DISK	2IP	A15APR91	30MAY91
AR2779	V 3 MS-V-104B PACKING LEAK	3IP	A15APR91	22APR91
AR2964	V 3 T-SYS-1 CRAFT SUPPORT DURING	2IP	A15APR91	26JUL91
AR1404	V 3 MS-MO-104B MOTOR OPERATOR REQ	2IP	A15APR91	22APR91
AR3137	V 3 MS-MO-105B REFURBISH MOTOR OP	2IP	A15APR91	22APR91
AR3521	V 3 HD-V-15B REPACK PER CHESTERTO	2IP	A15APR91	22APR91
AR0490	V 3 MS-MO-146 GREASE IS OXYDIZED,	2IP	A16APR91	22APR91
AR3522	V 3 HD-V-15C REPACK PER CHESTERTO	2IP	A16APR91	22APR91
AR3523	V 3 HD-V-15D REPACK PER CHESTERTO	2IP	A16APR91	22APR91
AR3539	V 3 MS-V-105B REPACK PER CHESTERT	2IP	A16APR91	22APR91
AR0540	V 2 MSLC-MO-1A GREASE IS OXYDIZED	2IP	A18APR91	22APR91
AR0541	V 2 MSLC-MO-1C GREASE IS OXYDIZED	2IP	A18APR91	22APR91
AR1327	V 3 HD-MO-15D MOTOR OPERATOR REQU	2IP	A18APR91	22APR91
AR1328	V 3 HD-MO-15C MOTOR OPERATOR REQU	2IP	A18APR91	22APR91
AR1329	V 3 HD-MO-15B MOTOR OPERATOR REQU	2IP	A18APR91	22APR91
AR2679	V 2 MSLC-MO-1B MOTOR REQUIRES CLE	2IP	A18APR91	22APR91
AR3524	V 3 HD-V-15E REPACK PER CHESTERTO	2IP	A18APR91	22APR91
AR3525	V 3 HD-V-15F REPACK PER CHESTERTO	2IP	A18APR91	22APR91
AR3526	V 3 HD-V-19A REPACK PER CHESTERTO	2IP	A18APR91	22APR91
AR3540	V 3 MS-V-146 REPACK PER CHESTERTO	2IP 3	A18APR91	22APR91
1337	V 3 HD-MO-19B MOTOR OPERATOR REQU	2IP	A19APR91	22APR91

RECORDS SELECTED = 174

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

.L NO.	Exercise '91	PAGE ____ of ____
SHEET NO. 1c	RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator), PET Controller (RW Control Rm)	

VALID FOR TIMES OF:
REAL TIME ☐ AM 0700 TO ☐ AM 0700 ☐ PM ☐ PM
DRILL TIME 0000 HOURS TO 0000 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Initial Plant Conditions[1] - Exercise Start Conditions for Operational Staffs (CR [Sim.], RW

1. Refer to attached Shift Manager Shift Turnover Checklist.
2. Refer to attached Control Room Supervisor Shift Turnover Checklist.
3. Refer to attached Control Room Operator Shift Turnover Checklist.
4. Refer to attached Shift Support Supervisor Shift Turnover Checklist.
5. Refer to attached Control Room Log for Mid shift 4-22-91.
6. Refer to attached Shift Manager's Log for Mid shift 4-22-91.

[1] CONTROLLER NOTE: Provide only the appropriate listings only to appropriate Operational Personnel. It is acceptable for Operational Personnel to share these checklists with whomever they please after having received them.

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SAFETY RELATED

CONTROLLED COPY

SHIFT MANAGER
SHIFT TURNOVER CHECKLIST

Offgoing Manager A. LANGLEY Date 4-22-91

Oncoming Manager _____ Time 0630

Part I - To be reviewed prior to oncoming Manager relieving the shift.

- Shift Crew Composition
- Shift Manager's Log
- Active Surveillance
- LCO / INOP Equipment Status
- Liquid Discharge Permits
- Night Orders
- Operationally significant maintenance work in progress

Reviewed: _____
Oncoming Manager

Part II - To be reviewed or performed shortly after assuming the shift.

- Control Room Operators Log
- Lifted Lead / Jumper Log
- New / Revised Procedures (Required Reading Books)
- Surveillance Schedule
- Control Room Panel Tour

Reviewed: _____
Shift Manager

Attachment 6.1

SAFETY RELATED

CONTROLLED COPY

CONTROL ROOM SUPERVISOR
SHIFT TURNOVER CHECKLIST

Offgoing C.R.S. H. ROCKEM Date 4-22-91

Ongoing C.R.S. _____ Time 0630

Part I - To be completed by offgoing Supervisor.

Reactor Power Ø % Generator Output Ø MWe

Thermal Limits: CMPF _____ CMPRAT _____

CMFLCPR N/A CMFPDLRX _____

CMFLPD

Power Limits:

PCIOMR yes ☐ no ☐

Technical Specification LCO's: (Verify LCO time limits have not been exceeded)

Evolutions in Progress / Planned: FUEL DE-CHANNELING, DRYER-SEPERATOR BRACKET INSPECTION, CRDM REMOVAL

Surveillances in Progress: 7.4.11.2.1.1 - NG, PART I, ANAL

PROCEDURE NUMBER	REVISION	PAGE
1.3.1	18	67 of 83

SAFETY RELATED

CONTROLLED COPY

Equipment Problems / Out of Service

- RPV Dryer-Seperator bracket cracked
- SM-7 outage
- Div 1 ECCS systems drained
- Condensate System drained
- HPCS pump OOS - failed pump bearings
- SH-6 & SC-63 out for PMs & retrofill

Reviewed: _____
Oncoming Supervisor

Part II - To be reviewed during turnover (Oncoming Supervisor initials).

____ Control Board Walkdown (Including BISI displays)

Part III - To be reviewed shortly after shift turnover (Oncoming Supervisor initials).

____ Required Reading ____ Control Room Logbook

____ Lifted Lead / Jumper Log ____ Night Orders

The oncoming Control Room Operators have reviewed Part I.

Oncoming CRO: (Signature)

_____ _____ _____

SAFETY RELATED

CONTROLLED COPY

CONTROL ROOM OPERATOR
SHIFT TURNOVER CHECKLIST

Offgoing C.R.O. P. Gregom Date 4-22-91

Ongoing C.R.O. _____ Time 0630

Part I - To be completed by offgoing Operator.

A. Mode Switch:
___ Shutdown ✓ Refuel ___ Startup ___ Run

B. Power:
_____ SRM _____ IRM _____% APRM _____ MWE Press:_____ psig

C. Recirc:
Loop A M/A: _____% Valve Loop B M/A: _____% Valve

D. Power / Flow:
ABOVE 100% Rod Line
(Circle One)
BELOW 100% Rod Line

E. Feedwater:
S.U. Valve M/A ___ Man. _____ % Open ___ Auto ___ Stpt

RFWDT A M/A ___ Man. _____ RPM ___ Auto

RFWDT B M/A ___ Man. _____ RPM ___ Auto

Master M/A ___ Man. ___ Auto ___ Stpt

Element ___ 1 ___ 3 Sensor ___ A ___ B

F. Rods:
Sequence _____ Inops (List) _____

S/D

PROCEDURE NUMBER	REVISION	PAGE
1.3.1	18	69 of 83

G. Bypassed:

SRM	__ A __ B __ C __ D	
IRM	__ A __ C __ E __ G __ B __ D __ F __ H	
APRM	__ A __ C __ E	__ B __ D __ F
Flow Unit	__ A __ C	__ B __ D
RBM	__ A	__ B

S/D

RSCS (List Rods) _____

Reviewed: _____
Oncoming CRO

Part II - To be reviewed during turnover (Oncoming CRO initials).

_____ Control Board Walkdown

_____ Active Surveillance

_____ Control Room Operators Log

Part III - To be reviewed shortly after shift turnover.

A. SRVs:

1) List SRVs having a tailpipe temperature greater than 250 F°

_____

2) List SRVs having an unilluminated neon circuit continuity light

---

B. Annunciators:

Tested ____

Issue MWR and place D.I.S. tag on annunciator window as appropriate.

C. The oncoming CRS has reviewed Parts I, II, and III.

_____

CRS Signature

SAFETY RELATED **CONTROLLED COPY**

SHIFT SUPPORT SUPERVISOR SHIFT TURNOVER CHECKLIST

Offgoing Support Supervisor G. HENSON Date 4-22-91

Oncoming Support Supervisor _____ Time 0630

Part I - To be completed by offgoing Supervisor.

Filter Demins

Condensate: On-line: A___ B___ C___ D___ E___ F___; System dP ___

RWCU: On-line: A X B X

FPC: On-line: A X B___

Tank Levels (Percent)

EDR-TK-5	10	EDR-TK-4B	10	FDR-TK-6	40
EDR-TK-2	15	EDR-TK-4A	12	FDR-TK-9	12
MWR-TK-8B	/	MWR-TK-23B	64		
MWR-TK-8A	/	MWR-TK-23A	12		

Phase Separators Level (Percent)

CPR-TK-14	24	EDR-TK-1	0
CPR-TK-92A	50	RWCU-TK-104A	76
CPR-TK-92B	64	RWCU-TK-104B	56
FDR-TK-22	50		

Part II - To be reviewed during shift turnover (Oncoming Supervisor initials).

___ Radwaste Log ___ Fire Brigade Composition

___ Fire System Impairments Log ___ Shift Crew Composition

___ Radwaste Control Panel Walkdown ___ Welding / Confined Space Permits

Upcoming / Ongoing Activities: _____

Attachment 6.4

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CONTROL ROOM OPERATORS LOG

WNP-2

DATE AND TIME	
	SHIFT/DATE 2300 - 0700 4/22/91
	CONTROL ROOM SUPERVISOR H. ROCKEN
	CONTROL ROOM OPERATORS 1) R. GREGORY
	2) M. FOREST
	3) D. MORRISE / K. LAVA
	NRC NOTIFIER D. MORRISE / K. LAVA
	Rx in Mode 5, Mode switch in Refuel
	Rx water temp 90.5°F, Rx water level 217"
	(level at RPV flange), RHR-P-2B in SDC
	SL-53 & SH-6 OOS, DG # 1 OOS, LPCS OOS
	A-RHR OOS, Condensate System OOS
2300	Commenced T.S.S. 7.0.2 Shift Daily Inst. checks
	Commenced T.S.S. 7.4.1.5.1 SLC Valve Alignment
	and Squibb Valve Continuity check
2311	Commenced T.S.S. 7.1.3 weekly HP/Chem Fz, PASS
	+ TRITIUM
2343	Energized SL-53
2358	Energized MC-5A from SL-53
0132	Completed T.S.S. 7.1.1
0147	De-energized TR-1-11 for maint
0425	Commenced T.S.S. 7.4.3.7.6.4 SRM 'C' CFT
0503	Completed T.S.S. 7.4.1.5.1
0516	Completed T.S.S 7.4.3.7.6.4 SRM 'C' is operable
	exit LCO 3.9.2 / 3.3.6
0620	Re-commenced CRDM undervessel work
	on rod 26-35
0627	Commenced T.S.S. 7.1.1 HP/Chem Shift Chan Checks
	Commenced T.S.S. 7.1.2 HP/Chem Daily Chan +
	Source checks
C.E. 0455	Completed repair of Refuel bridge interlocks,
	fuel inspection commenced.

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PAGE NO 61

SHIFT MANAGERS LOG

WNP-2

DATE AND TIME	
	SHIFT/DATE GRAVEYARD MONDAY 4-22-91
	SHIFT MGR LANGLEY RB/RW BLDG TOMSON
	CR SUPVR ROCKEM TURBINE BLDG STICKLER
	SS SUPVR HENSON OUTSIDE AREA VAN
	CRO GREGOM, FOREST . RELIEF DIFFSION / BRANDY
	MOORISE FT BENDAD
	EXTRA EO: TOWERS, ZLATNUK, MATTHIS
	RADOCK, SELLER, SLUG, LINSLO, JERROME
	LCO's: TEA-SR-26, WNA-FU-54A
	INOP: SRM C, APRM A, CSP-V-93, CSP-V-5
	RPS-RLY-K10A-H, ADS DN I & II, DG-1,
	IRM C, LD-TE-24J, ARM-RIS-3A, MS-RV-2D, FIRE
	RATED ASSEMBLIES
2343	ENERGIZED SL-53
2358	ENERGIZED MC-5A FROM SL-53
0147	DE-ENERGIZED TR-1-11 FOR MAINTENANCE
0500	NOTIFIED BY SECURITY OF LOSS OF LIGHTING
	FROM ELP-SS-A. INVESTIGATING
0516	COMPLETE 7.4.3.7.6.4 SRM C. EXIT
	TSAS 3.9.2, 3.3.6; SRM C OPERABLE
0546	RESET TRIPPED BREAKER FOR ELP-SS-A, NO CAUSE
	FOUND FOR TRIPPING
0620	RE-COMMENCED UNDERVESSEL WORK ON ROD 26-35
L.E. 0455	COMPLETED REPAIR OF R/F BRIDGE INTERLOCKS,
	FUEL INSPECTION COMMENCED

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.	Exercise '91	PAGE ____ of ____
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)	
1d	RB 606' R/F Floor (Radwaste Control Room)	

VALID FOR TIMES OF:

REAL TIME: ☐ AM 0700 TO ☐ AM 0700 / ☐ PM TO ☐ PM

DRILL TIME: 0000 HOURS TO 0000 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Initial Plant Conditions - Exercise Start Conditions for Refueling Floor Crew

The R6 Fuel shuffle was completed yesterday (Sunday, April 21st). The Vendor Fuel Inspection, which is currently in progress, was begun early this morning on Graveyard shift.

1. Refer to attached Nuclear Component Transfer List: "R6 Fuel shuffle"

2. Refer to attached Nuclear Component Transfer List: "Vendor Fuel Inspection"

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NUCLEAR COMPONENT TRANSFER LIST

WORK ACTIVITY DECRIPTION: R6 FUEL SHUFFLE

PREPARED BY: W. K. Atkinson DATE 4-17-91

REVIEWED BY: J A Glan DATE 4.17-91

PLANT MANAGER APPROVAL: J W Baker DATE 4-17-91

DATE STARTED TRANSFERS: 4/17/91

DATE FINISHED TRANSFERS: 4/21/91

FINAL VERIFICATION OF ENDING LOCATIONS OF SPECIAL NUCLEAR MATERIAL: _____ DATE _____

REVIEW BY NUCLEAR MATERIAL CUSTODIAN: _____ DATE _____

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: R6 FUEL SHUFFLE

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	UD4147	41, 56	SE	S. PREP	SE	RPO	DGR
2	LYV153	7, 42	NW	PP, 17	NW	RPO	DGR
3	LYV154	53, 20	SE	PP, 18	SE	"	DGR
4	WA6001	15, 8	SW	PP, 19	SW	"	DGR
5	WA6002	45, 8	SE	PP, 20	SE	"	DGR
6	WA6003	15, 54	NW	PP, 21	NW	"	DGR
7	WA6004	45, 54	NE	PP, 22	NE	"	DGR
8	AN3001	51, 46	NW	PP, 23	NW	"	DGR
9	UD4001	43, 40	SW	PP, 24	SW	"	DGR
10	UD4145	19, 6	NW	PP, 25	NW	"	DGR
11	UD4146	19, 56	SW	PP, 26	SW	"	DGR
12	UD4148	41, 6	NE	PP, 28	NE	"	DGR
13	XN1047	31, 4	SW	ZZ, 17	SW	"	DGR
14	XN1024	49, 56	SE	ZZ, 18	SE	"	DGR
15	XN1017	55, 50	NW	ZZ, 19	NW	"	DGR
16	XN1056	55, 12	SW	ZZ, 20	SW	"	DGR
17	XN1109	49, 6	NE	ZZ, 21	NE	RPO	DGR
18	XN1078	11, 6	NW	ZZ, 22	NW	RPO	DGR
19	XN1073	5, 12	SE	ZZ, 23	SE	RPO	DGR
20	XN1018	5, 50	NE	ZZ, 24	NE	RPO	DGR
21	XN1019	11, 56	SW	ZZ, 25	SW	SJ	DGR
22	XN1022	45, 58	NE	ZZ, 26	NE	SJ	DGR
23	XN1118	57, 16	SE	ZZ, 27	SE	SJ	DGR
24	XN1079	15, 4	SW	ZZ, 28	SW	SJ	DGR
25	XN1053	3, 46	NW	ZZ, 29	NW	SJ	DGR

This sheet represents pages 2 through 40 of the NUCLEAR COMPONENT TRANSFER LIST; R6 FUEL SHUFFLE. For the purposes of the Emergency Exercise, only page 1 is included.

NUCLEAR COMPONENT TRANSFER LIST

WORK ACTIVITY DECRIPTION: VENDOR FUEL INSPECTION

PREPARED BY: D. K. Atkinson DATE 4-17-91

REVIEWED BY: R. M. Jones DATE 4-17-91

PLANT MANAGER APPROVAL: J. W. Baker DATE 4-17-91

DATE STARTED TRANSFERS: 4/22/91

DATE FINISHED TRANSFERS: _____

FINAL VERIFICATION OF ENDING LOCATIONS OF SPECIAL NUCLEAR MATERIAL: _____ DATE _____

REVIEW BY NUCLEAR MATERIAL CUSTODIAN: _____ DATE _____

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: VENDOR FUEL INSPECTION

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	UD4147	S. PREP	ANY	PP, 27	SE	KCH	EJM

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: VENDOR FUEL INSPECTION

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	UD4001	PP, 24	SW	S. PREP	ANY		
2	UD4001	S. PREP	ANY	PP, 24	SW		

Not Done

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: VENDOR FUEL INSPECTION

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	UD4145	PP, 25	NW	S. PREP	ANY		
2	UD4145	S. PREP	ANY	PP, 25	NW		

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: VENDOR FUEL INSPECTION

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	UD4146	PP, 26	SW	S. PREP	ANY		
2	UD4146	S. PREP	ANY	PP, 26	SW		

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: VENDOR FUEL INSPECTION

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	UD4148	PP, 28	NE	S. PREP	ANY		
2	UD4148	S. PREP	ANY	PP, 28	NE		

NUCLEAR COMPONENT TRANSFER LIST
ACTIVITY: VENDOR FUEL INSPECTION

STEP #	FUEL NUMBER	MOVEMENTS FROM		TO		OPERATOR INITIALS	REFUEL SUP. VERIFICATION
1	XN1047	ZZ, 17	SW	S. PREP	ANY		
2	XN1047	S. PREP	ANY	ZZ, 17	SW		

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

NO. Exercise '91	PAGE ____ of ____
SHEET NO. 2	RESPONSIBLE CONTROLLER (LOCATION) ALL

VALID FOR TIMES OF:
REAL TIME ALL DAY ☐ AM ☐ PM TO ☐ AM ☐ PM
DRILL TIME ALL DAY HOURS TO HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
REACTOR & PLANT DATA

DATA SHEET	ITEM
2a	Reactor Water Level - Table
2b	Reactor Water Level - Curve vs Time
2c	Reactor Water Level - Curve vs Time with Overlapping Water Level Instrument Ranges

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise '91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
2a	CONTROL ROOM

VALID FOR TIMES OF:								
REAL TIME	0900	☐ AM ☐ PM	TO	0230	☐ AM ☐ PM	DRILL TIME	0000 HOURS	TO 0530 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
NONE	Reactor Water Level

REACTOR WATER LEVEL

	A	B
1	Time	Rx Water Level
2	0:00:00	217 in.
3	0:07:30	145 in.
4	0:15:00	80 in.
5	0:22:30	20 in.
6	0:30:00	-30 in.
7	0:37:30	-68 in.
8	0:45:00	-105 in.
9	0:52:30	-135 in.
10	1:00:00	-162 in.
11	1:07:30	-182 in.
12	1:15:00	-200 in.
13	1:22:30	-212 in.
14	1:30:00	-223 in.
15	1:37:30	-233 in.
16	1:45:00	-240 in.
17	1:52:30	-246 in.
18	2:00:00	-250 in.
19	2:07:30	-253 in.
20	2:15:00	-255 in.
21	2:22:30	-258 in.
22	2:30:00	-260 in.
23	2:37:30	-263 in.

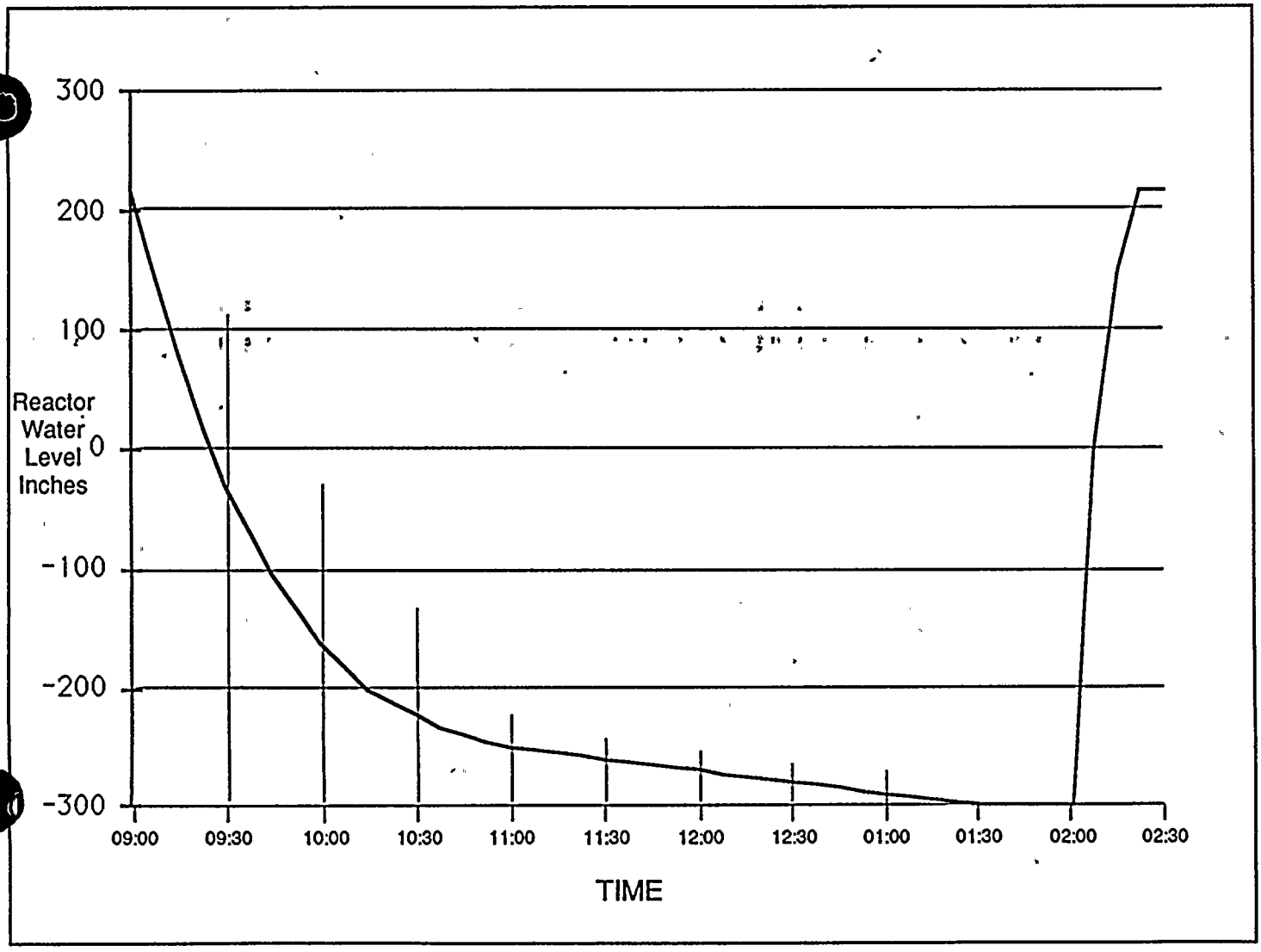
	A	B
24	Time	Rx Water Level
25	2:45:00	-265 in.
26	2:52:30	-268 in.
27	3:00:00	-270 in.
28	3:07:30	-273 in.
29	3:15:00	-275 in.
30	3:22:30	-278 in.
31	3:30:00	-280 in.
32	3:37:30	-283 in.
33	3:45:00	-285 in.
34	3:52:30	-288 in.
35	4:00:00	-290 in.
36	4:07:30	-293 in.
37	4:15:00	-295 in.
38	4:22:30	-298 in.
39	4:30:00	-300 in.
40	4:37:30	-300 in.
41	4:45:00	-300 in.
42	4:52:30	-300 in.
43	5:00:00	-300 in.
44	5:07:30	0 in.
45	5:15:00	150 in.
46	5:22:30	218 in.
47	5:30:00	218 in.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

NO. Exercise '91		PAGE ____ of ____
SHEET NO. 2b	RESPONSIBLE CONTROLLER (LOCATION) CONTROL ROOM	
VALID FOR TIMES OF: REAL TIME 0900 ☐AM ☐PM TO 0230 ☐AM ☐PM	DRILL TIME 0000 HOURS TO 0530 HOURS	
ASSOCIATED WITH MESSAGES NONE	INFORMATION APPLIES TO Reactor Water Level	

REACTOR WATER LEVEL vs. TIME

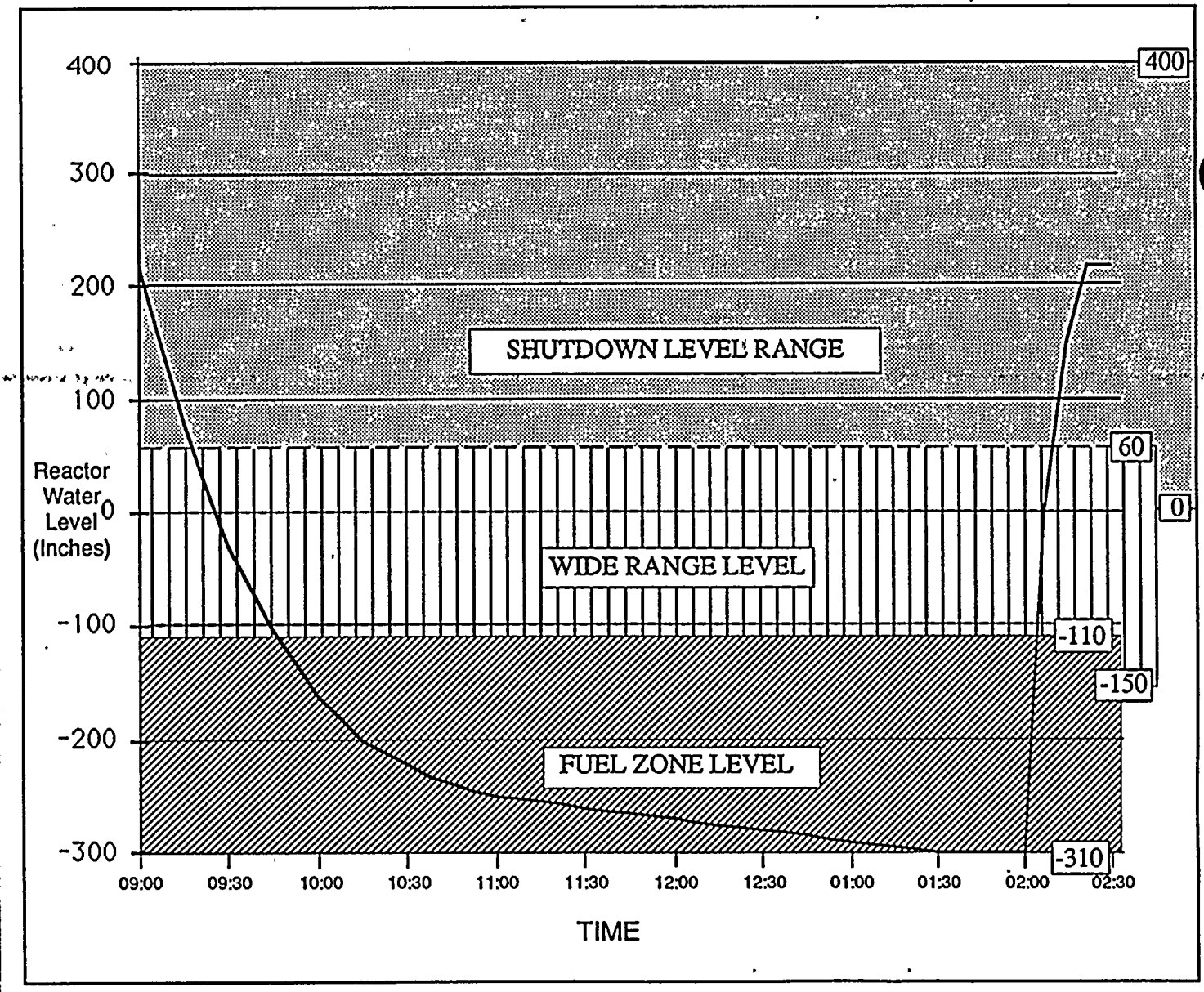


WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION GENERAL DATA SHEET

DRILL NO. Exercise '91	PAGE ____ of ____
SHEET NO. 2c	RESPONSIBLE CONTROLLER (LOCATION) CONTROL ROOM
VALID FOR TIMES OF: REAL TIME 0900 ☐ AM ☐ PM TO 0230 ☐ AM ☐ PM	DRILL TIME 0000 HOURS TO 0530 HOURS
ASSOCIATED WITH MESSAGES NONE	INFORMATION APPLIES TO Reactor Water Level

REACTOR WATER LEVEL vs. TIME WITH OVERLAPPING WATER LEVEL RANGES



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.	Exercise 91	PAGE ____ of ____
SHEET NO. 3	RESPONSIBLE CONTROLLER (LOCATION) ALL	
VALID FOR TIMES OF: REAL TIME 0800 ☐ AM ☐ PM TO 1430 ☐ AM ☐ PM	DRILL TIME 0000 HOURS TO 0630 HOURS	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO Fixed Monitor Readings Index	

SHT NO.	*TITLE*
3a	Introduction
3b	Alarm Hi Start/Stop Times
3c	ARM 1 thru 5
3d	ARM 6 thru 11
3e	ARM 12, 13, 23, 24, 32, 33, 34
3f	ARM 14 thru 18
3g	ARM 19,20,21,22,25,26,27,28,29,30
3h	REA-RIS-19
3h-1	REA-RIS-19 Graph (CPM)
3i	REA-RIS-19 A
3i-1	REA-RIS-19 A Graph (PMU)
3j	MS-RIS-610 A, B, C & D
3k	CMS-RIS-27 A, B, C, D, E & F
3l	REA-RIS-609 A, B, C & D
3m	OG-RIS-601 A & B
3n	OG-RIS-612
3o	TEA-RIS-13 & 13 A
3p	CMS, SW & RCC Series
3q	CAM'S in TG building, elev 441,447',501' & OSC 441'
3r	WEA & WOA Series
3s	CAM's in Rx Building, elev. 501', 572' & 601'

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3a	CR (Control Cell)

VALID FOR TIMES OF:					
REAL TIME	☐ AM 0800 TO ☐ AM 1430	☐ PM	☐ PM	DRILL TIME	☐ AM 0000 TO ☐ AM 0630 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings Introduction

The Plant is conducting a refueling operations and is in the ninth day of the refueling outage. Most refueling operations inside the core have been completed, and de-channeling operations are being performed in the Spent Fuel Pool. A maintenance crew is working under the vessel removing a control rod drive mechanism. These are contractor personnel, who are performing this task for the first time at WNP-2. An operations crew is working on the refuel floor de-channeling ANF 9 by 9 experimental fuel bundle for inspection.

While moving de-channeled bundle UD4145 into a new spent fuel pool rack position, a Plant Operator's headset cord catches on the refuel platform trolley motion switch and the trolley lurches due to an interlock failure. The grappled fuel bundle, that is partially submerged into a fuel rack, is sheared by the trolley movement. With the sheared fuel bundle, very large bubbles are seen escaping from the bundle. Shortly thereafter, the pool surface is alive with the boiling action of bursting bubbles.

The refueling floor area radiation monitors alarm. Reactor building ventilation isolates and Standby Gas Treatment starts. An ALERT is declared due to a fuel handling accident in the Reactor Building Exhaust (REA) isolation on a "Z" signal (>13mr/hr; from REA-RIS-609). Offsite release via the REA will occur for approximately 6 1/2 seconds, allowing for a relatively large initial "puff" of radiation, until the REA isolation valves are fully shut.

The maintenance crew (Contractor personnel) removing a control rod drive mechanism loses control of the drive as they hurry to evacuate. The control rod backseat fails to seal, and the reactor vessel water level begins to drop due to the leak around the control rod drive mechanism. As the reactor water level reaches -161 inches (top of the active fuel), a SITE AREA EMERGENCY is declared due to exceeding a Technical Specification Safety Limit.

The reactor water level continues to drop, and decay heat in the uncovered bundles is ample to begin causing fuel damage and subsequent offgassing of iodines, kryptons and xenons from defects in the fuel clad. Reactor building radiation levels begin to increase rapidly in response to this off-gassing. A GENERAL EMERGENCY is declared due to an event that has degraded plant safety such that the release of large amounts of radioactive materials in a short time is possible.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

.L NO.		PAGE
Exercise 91		____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3a - cont	CR (Control Cell)

VALID FOR TIMES OF:						
REAL TIME	☐ AM 0800 TO ☐ PM 1430		☐ AM ☐ PM	DRILL TIME	0000 HOURS TO 0630	HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings Introduction

Meteorology will be constant throughout out the Exercise. A 6 MPH wind blowing from 345° with a stability class of "C" will also prevail throughout the Exercise.

The following Section 3 data sheets provide information on radiation monitoring system responses to the bundle shearing accident. Subsequently, the vessel water level drops causing fuel cladding failure and a rapid increase in radiation monitor response occurs.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3b	ALL

VALID FOR TIMES OF:							
REAL TIME	0800 ☐AM ☐PM	TO	1430 ☐AM ☐PM	DRILL TIME	0000 HOURS	TO	0630 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings Hi Start/Stop Times

Data is provided for the Radiation Monitoring System for 0800 to 1430 hours. The first monitor alarms occur at approximately 0900 hours.

ARM's/MONITORS	*ALARM HIGH (Time)*
ARM 1 thru 13	At 0900 hrs to End of Exercise
ARM 23 thru 24	At 0900 hrs to End of Exercise
ARM 32 thru 34	No Alarm actuated throughout Exercise
ARM 14 thru 19	No Alarm actuated throughout Exercise
REA-RIS-19	At 0900 hrs to End of Exercise
REA-RIS-19A	No Alarm actuated throughout Exercise
MS-RIS-610A, B, C & D	No Alarm actuated throughout Exercise
CMS-RIS-27A thru F	No Alarm actuated throughout Exercise
REA-RIS-609C & D	At 0900 hours to end of Exercise
REA-RIS-609A & B	At 0900 hours to end of Exercise
OG-RIS-601A & B	No Alarm actuated throughout Exercise
OG-RIS-612	No Alarm actuated throughout Exercise
TEA-RIS-13 & 13A	No Alarm actuated throughout Exercise
CMS-RIS-12/1A & 12/1B	At 0900 hours to end of Exercise
CMS-RIS-12/3A & 12/3B	At 0900 hours to end of Exercise
SW-RIS-604	At 1300 hours to end of Exercise
SW-RIS-605	At 0900 hours to 1000 hours
SW-RIS-605	At 1215 hours to end of Exercise
RCC-RIS-607	At 1100 hours to end of Exercise
ARM 19-22 & 25-30	No Alarm actuated throughout Exercise
WEA & WOA Series	No Alarm actuated throughout Exercise
Rx Bldg CAM's	At 0900 hours to end of Exercise

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION GENERAL DATA SHEET

EXER. NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3c	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐ AM ☐ PM	TO	14:30 ☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - ARM 1-5

All Readings in mr/hr (unless noted otherwise)

Time	ARM-1	ARM-2	ARM-3	ARM-3a	ARM-4	ARM-5
8:00	200	3	200	200	7	10
8:15	200	3	200	200	7	10
8:30	200	3	200	200	7	10
8:45	200	3	200	200	7	10
9:00	645	448	580	580	449	452
9:15	616	419	556	556	420	423
9:30	589	392	532	532	393	396
9:45	563	366	510	510	368	371
10:00	540	343	491	491	345	348
10:15	519	322	473	473	324	327
10:30	499	302	456	456	304	307
10:45	481	284	441	441	287	290
11:00	465	268	427	427	270	273
11:15	450	253	414	414	255	258
11:30	436	239	402	402	241	244
11:45	423	226	391	391	229	232
12:00	411	214	381	381	217	220
12:05	444	247	408	408	249	252
12:10	512	315	467	467	316	319
12:15	545	348	495	495	348	351
12:20	598	401	539	539	400	403
12:25	655	458	588	588	456	459
12:30	706	509	631	631	506	509
12:45	877	680	776	776	673	676
13:00	1099	902	966	966	892	895
13:15	1413	1216	1233	1233	1199	1202
13:30	1842	1645	1597	1597	1619	1622
13:45	2503	2306	2160	2160	2268	2271
14:00	4265	4068	3658	3658	3995	3998
14:15	4089	3892	3509	3509	3823	3826
14:30	3924	3727	3369	3369	3660	3663

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3d	CR (Simulator)

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Fixed Monitor Readings - ARM 6-11

All Readings in mr/hr (unless noted otherwise)

Time	ARM-6	ARM-7	ARM-8	ARM-9 RHR-A	ARM-10 RHR-B	ARM-11 RHR-C
8:00	5	7	3	15	10	3
8:15	5	7	3	15	10	3
8:30	5	7	3	15	10	3
8:45	5	7	3	15	10	3
9:00	496	498	443	345	340	333
9:15	464	466	621	324	319	312
9:30	434	436	772	303	298	291
9:45	406	408	901	284	279	272
10:00	380	382	1012	267	262	255
10:15	357	359	1054	252	247	240
10:30	335	337	1138	237	232	225
10:45	316	318	1164	224	219	212
11:00	298	300	1227	212	207	200
11:15	281	283	1240	201	196	189
11:30	266	268	1288	190	185	178
11:45	251	253	1292	181	176	169
12:00	238	240	1537	172	167	160
12:05	273	275	2129	196	191	184
12:10	348	350	3438	246	241	234
12:15	384	386	5384	270	265	258
12:20	441	443	7108	308	303	296
12:25	504	506	9179	351	346	339
12:30	559	561	Offscale	388	383	376
12:45	745	747	Offscale	513	508	501
13:00	988	990	Offscale	676	671	664
13:15	1330	1332	Offscale	906	901	894
13:30	1797	1799	Offscale	1219	1214	1207
13:45	2518	2520	Offscale	1704	1699	1692
14:00	4437	4439	Offscale	2994	2989	2982
14:15	4245	4247	Offscale	2865	2860	2853
14:30	4064	4066	Offscale	2744	2739	2732

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 3e | RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF:
REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM
DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Fixed Monitor Readings -
ARM 12, 13, 23, 24,32-34

All Readings in mr/hr (unless noted otherwise)

Time	ARM-12 RCIC	ARM-13 HPCS	ARM-23 CRD Pump	ARM-24	ARM-32 (R/hr)	ARM-33 (R/hr)	ARM-34 (R/hr)
8:00	7	7	9	6	Downscale	Downscale	Downscale
8:15	7	7	9	6	Downscale	Downscale	Downscale
8:30	7	7	9	6	Downscale	Downscale	Downscale
8:45	7	7	9	6	Downscale	Downscale	Downscale
9:00	300	300	365	448	4.2E-01	4.4E-01	0.44
9:15	282	282	342	419	4.0E-01	4.1E-01	0.42
9:30	263	263	320	392	3.7E-01	3.8E-01	0.39
9:45	247	247	300	367	3.4E-01	3.6E-01	0.36
10:00	231	231	281	344	3.2E-01	3.3E-01	0.34
10:15	217	217	264	323	3.0E-01	3.1E-01	0.32
10:30	204	204	248	303	2.8E-01	2.9E-01	0.30
10:45	193	193	234	286	2.7E-01	2.8E-01	0.28
11:00	182	182	221	269	2.5E-01	2.6E-01	0.27
11:15	172	172	209	254	2.4E-01	2.4E-01	0.25
11:30	163	163	198	240	2.2E-01	2.3E-01	0.24
11:45	154	154	188	228	2.1E-01	2.2E-01	0.22
12:00	146	146	178	216	2.0E-01	2.1E-01	0.21
12:05	167	167	204	248	2.3E-01	2.4E-01	0.24
12:10	212	212	259	315	3.0E-01	3.1E-01	0.31
12:15	234	234	285	347	3.3E-01	3.4E-01	0.3
12:20	268	268	327	399	3.8E-01	3.9E-01	0.4
12:25	305	305	373	455	4.3E-01	4.5E-01	0.5
12:30	338	338	414	505	4.8E-01	5.0E-01	0.5
12:45	449	449	550	672	6.4E-01	6.6E-01	0.7
13:00	594	594	728	891	8.5E-01	8.8E-01	0.9
13:15	799	799	979	1198	1.2E+00	1.2E+00	1.2
13:30	1078	1078	1322	1618	1.6E+00	1.6E+00	1.6
13:45	1508	1508	1852	2267	2.2E+00	2.3E+00	2.3
14:00	2655	2655	3261	3994	3.9E+00	4.0E+00	4.1
14:15	2541	2541	3120	3822	3.7E+00	3.8E+00	3.9
14:30	2433	2433	2988	3659	3.5E+00	3.6E+00	3.7

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3f	CR (Simulator)

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Fixed Monitor Readings - ARM 14-18

All Readings in mr/hr (unless noted otherwise)

Time	ARM-14	ARM-15	ARM-16	ARM-17	ARM-18
8:00	15	3	6	18	3
8:15	15	3	6	16	3
8:30	15	2	5	15	3
8:45	15	2	5	15	3
9:00	15	2	5	14	3
9:15	15	2	4	12	3
9:30	15	2	4	10	3
9:45	15	2	4	10	3
10:00	15	2	4	8	3
10:15	15	2	4	8	3
10:30	15	2	4	8	3
10:45	15	2	4	8	3
11:00	15	2	4	8	3
11:15	15	2	4	8	3
11:30	15	2	4	8	3
11:45	15	2	4	8	3
12:00	15	2	4	8	3
12:05	15	2	4	8	3
12:10	15	2	4	8	3
12:15	15	2	4	8	3
12:20	15	2	4	8	3
12:25	15	2	4	8	3
12:30	15	2	4	8	3
12:45	15	2	4	8	3
13:00	15	2	4	8	3
13:15	15	2	4	8	3
13:30	15	2	4	8	3
13:45	15	2	4	8	3
14:00	15	2	4	8	3
14:15	15	2	4	8	3
14:30	15	2	4	8	3

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 3g | RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF:
REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM
DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Fixed Monitor Readings - ARM 19-22, & ARM 25-30

ARM - Readings Due to Plant Conditions
All Readings in mr/hr (unless noted otherwise)

Time	ARM 19 Main CR	ARM 20&21 RW Bldg	ARM 22 Chem Lab	ARM 25-28 RW Bldg	ARM 30 RW CR	ARM 29 RW Bldg
8:00	2	5 - 8	7	3 - 8	3	30
8:15	2	5 - 8	7	3 - 8	3	30
8:30	2	5 - 8	7	3 - 8	3	30
8:45	2	5 - 8	7	3 - 8	3	30
9:00	2	5 - 8	7	3 - 8	3	30
9:15	2	5 - 8	7	3 - 8	3	30
9:30	2	5 - 8	7	3 - 8	3	30
9:45	2	5 - 8	7	3 - 8	3	30
10:00	2	5 - 8	7	3 - 8	3	30
10:15	2	5 - 8	7	3 - 8	3	30
10:30	2	5 - 8	7	3 - 8	3	30
10:45	2	5 - 8	7	3 - 8	3	30
11:00	2	5 - 8	7	3 - 8	3	30
11:15	2	5 - 8	7	3 - 8	3	30
11:30	2	5 - 8	7	3 - 8	3	30
11:45	2	5 - 8	7	3 - 8	3	30
12:00	2	5 - 8	7	3 - 8	3	30
12:05	2	5 - 8	7	3 - 8	3	30
12:10	2	5 - 8	7	3 - 8	3	30
12:15	2	5 - 8	7	3 - 8	3	30
12:20	2	5 - 8	7	3 - 8	3	30
12:25	2	5 - 8	7	3 - 8	3	30
12:30	2	5 - 8	7	3 - 8	3	30
12:45	2	5 - 8	7	3 - 8	3	30
13:00	2	5 - 8	7	3 - 8	3	30
13:15	2	5 - 8	7	3 - 8	3	30
13:30	2	5 - 8	7	3 - 8	3	30
13:45	2	5 - 8	7	3 - 8	3	30
14:00	2	5 - 8	7	3 - 8	3	30
14:15	2	5 - 8	7	3 - 8	3	30
14:30	2	5 - 8	7	3 - 8	3	30

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3h	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:30	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - REA-RIS-19 Reactor Building Release

CPM is Count Rate in for REA-RIS-19 Ave. is average count CPM for previous 15 min.

Time	CPM
8:30	350
8:59	350
9:00	Offscale
9:01	1.54E+06
9:02	1.53E+06
9:03	1.53E+06
9:04	1.52E+06
9:05	1.52E+06
9:06	1.51E+06
9:07	1.51E+06
9:08	1.50E+06
9:09	1.50E+06
9:10	1.49E+06
9:11	1.49E+06
9:12	1.49E+06
9:13	1.48E+06
9:14	1.48E+06
9:15	1.47E+06
Ave.	1.50E+06
9:16	1.47E+06
9:17	1.46E+06
9:18	1.46E+06
9:19	1.45E+06
9:20	1.45E+06
9:21	1.44E+06
9:22	1.44E+06
9:23	1.43E+06
9:24	1.43E+06
9:25	1.42E+06
9:26	1.42E+06
9:27	1.42E+06
9:28	1.41E+06
9:29	1.41E+06
9:30	1.40E+06
Ave.	1.43E+06
9:31	1.40E+06
9:32	1.39E+06
9:33	1.39E+06
9:34	1.38E+06
9:35	1.38E+06
9:36	1.38E+06
9:37	1.37E+06
9:38	1.37E+06
9:39	1.36E+06
9:40	1.36E+06
9:41	1.35E+06
9:42	1.35E+06
9:43	1.35E+06
9:44	1.34E+06
9:45	1.34E+06
Ave.	1.37E+06

Time	CPM
9:46	1.33E+06
9:47	1.33E+06
9:48	1.33E+06
9:49	1.32E+06
9:50	1.32E+06
9:51	1.31E+06
9:52	1.31E+06
9:53	1.31E+06
9:54	1.30E+06
9:55	1.30E+06
9:56	1.29E+06
9:57	1.29E+06
9:58	1.29E+06
9:59	1.28E+06
10:00	1.28E+06
Ave.	1.31E+06
10:01	1.27E+06
10:02	1.27E+06
10:03	1.27E+06
10:04	1.26E+06
10:05	1.26E+06
10:06	1.26E+06
10:07	1.25E+06
10:08	1.25E+06
10:09	1.24E+06
10:10	1.24E+06
10:11	1.24E+06
10:12	1.23E+06
10:13	1.23E+06
10:14	1.23E+06
10:15	1.22E+06
Ave.	1.25E+06
10:16	1.22E+06
10:17	1.21E+06
10:18	1.21E+06
10:19	1.21E+06
10:20	1.20E+06
10:21	1.20E+06
10:22	1.20E+06
10:23	1.19E+06
10:24	1.19E+06
10:25	1.19E+06
10:26	1.18E+06
10:27	1.18E+06
10:28	1.18E+06
10:29	1.17E+06
10:30	1.17E+06
Ave.	1.19E+06

Time	CPM
10:31	1.17E+06
10:32	1.16E+06
10:33	1.16E+06
10:34	1.16E+06
10:35	1.15E+06
10:36	1.15E+06
10:37	1.15E+06
10:38	1.14E+06
10:39	1.14E+06
10:40	1.14E+06
10:41	1.13E+06
10:42	1.13E+06
10:43	1.13E+06
10:44	1.12E+06
10:45	1.12E+06
Ave.	1.14E+06
10:46	1.12E+06
10:47	1.11E+06
10:48	1.11E+06
10:49	1.11E+06
10:50	1.10E+06
10:51	1.10E+06
10:52	1.10E+06
10:53	1.10E+06
10:54	1.09E+06
10:55	1.09E+06
10:56	1.09E+06
10:57	1.08E+06
10:58	1.08E+06
10:59	1.08E+06
11:00	1.07E+06
Ave.	1.10E+06
11:01	1.07E+06
10:02	1.07E+06
11:03	1.06E+06
11:04	1.06E+06
11:05	1.06E+06
11:06	1.06E+06
11:07	1.05E+06
11:08	1.05E+06
11:09	1.05E+06
11:10	1.04E+06
11:11	1.04E+06
11:12	1.04E+06
11:13	1.04E+06
11:14	1.03E+06
11:15	1.03E+06
Ave.	1.05E+06

Time	CPM
11:16	1.03E+06
11:17	1.02E+06
11:18	1.02E+06
11:19	1.02E+06
11:20	1.02E+06
11:21	1.01E+06
11:22	1.01E+06
11:23	1.01E+06
11:24	1.01E+06
11:25	1.00E+06
11:26	1.00E+06
11:27	9.97E+05
11:28	9.94E+05
11:29	9.92E+05
11:30	9.89E+05
Ave.	1.01E+06
11:31	9.86E+05
11:32	9.84E+05
11:33	9.81E+05
11:34	9.78E+05
11:35	9.76E+05
11:36	9.73E+05
11:37	9.71E+05
11:38	9.68E+05
11:39	9.65E+05
11:40	9.63E+05
11:41	9.60E+05
11:42	9.58E+05
11:43	9.55E+05
11:44	9.53E+05
11:45	9.50E+05
Ave.	9.68E+05
11:46	9.48E+05
11:47	9.45E+05
11:48	9.43E+05
11:49	9.40E+05
11:50	9.38E+05
11:51	9.35E+05
11:52	9.33E+05
11:53	9.30E+05
11:54	9.28E+05
11:55	9.25E+05
11:56	9.23E+05
11:57	9.21E+05
11:58	9.18E+05
11:59	9.16E+05
12:00	9.13E+05
Ave.	9.30E+05

Time	CPM
12:01	9.52E+05
12:02	9.91E+05
12:03	1.03E+06
12:04	1.06E+06
12:05	1.12E+06
12:06	1.15E+06
12:07	1.24E+06
12:08	1.37E+06
12:09	1.50E+06
12:10	1.54E+06
12:11	1.58E+06
12:12	1.61E+06
12:13	1.66E+06
12:14	1.70E+06
12:15	1.75E+06
Ave.	
12:16	1.84E+06
12:17	1.93E+06
12:18	2.02E+06
12:19	2.05E+06
12:20	2.08E+06
12:21	2.11E+06
12:22	2.21E+06
12:23	2.30E+06
12:24	2.40E+06
12:25	2.45E+06
12:26	2.51E+06
12:27	2.56E+06
12:28	2.63E+06
12:29	2.70E+06
12:30	2.78E+06
Ave.	
12:31	2.86E+06
12:32	2.94E+06
12:33	3.02E+06
12:34	3.08E+06
12:35	3.15E+06
12:36	3.21E+06
12:37	3.26E+06
12:38	3.31E+06
12:39	3.36E+06
12:40	3.45E+06
12:41	3.54E+06
12:45	3.89E+06
13:00	5.36E+06
13:10	6.86E+06
13:15	7.43E+06
13:20	8.39E+06
13:30	Offscale
14:00	Offscale
14:30	Offscale

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

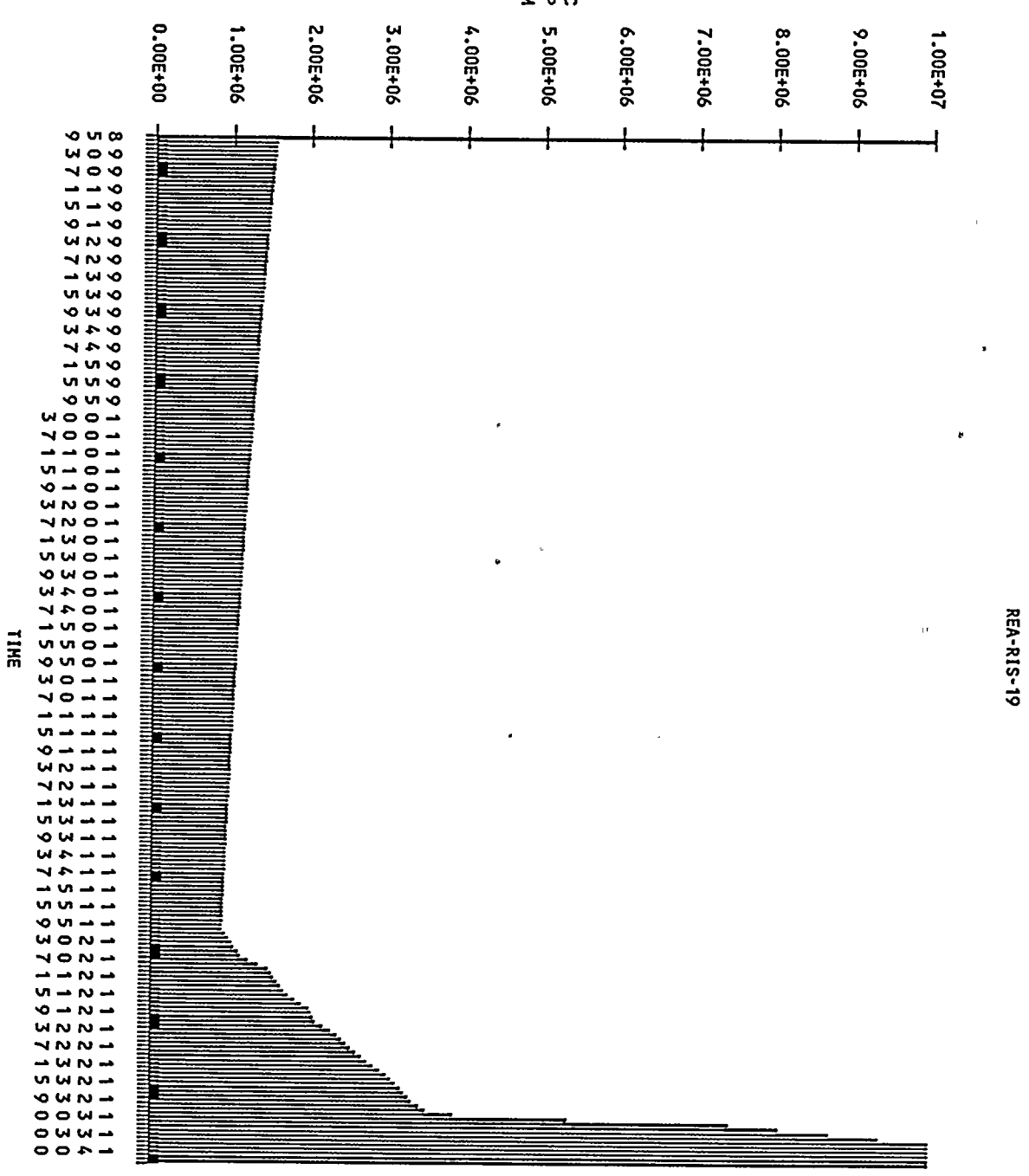
L NO. Exercise 91	PAGE ____ of ____
SHEET NO. 3h-1	RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF:
REAL TIME 8:30 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM
DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Fixed Monitor Readings - REA-RIS-19
Reactor Building Release



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91

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SHEET NO. 3i REV 1

RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Fixed Monitor Readings - REA-RIS-19 A
Reactor Building Release

PMU's are Average Rate in for REA-RIS-19 A Ave. is average PMU's for previous 15 min.

Time	PMU
8:30	1.8
8:59	1.8
9:00	120.0
9:01	5.1
9:02	5.1
9:03	5.1
9:04	5.1
9:05	5.0
9:06	5.0
9:07	5.0
9:08	5.0
9:09	5.0
9:10	5.0
9:11	5.0
9:12	5.0
9:13	5.0
9:14	5.0
9:15	4.9
Ave.	5.0
9:16	4.9
9:17	4.9
9:18	4.9
9:19	4.9
9:20	4.9
9:21	4.9
9:22	4.9
9:23	4.9
9:24	4.9
9:25	4.8
9:26	4.8
9:27	4.8
9:28	4.8
9:29	4.8
9:30	4.8
Ave.	4.9
9:31	4.8
9:32	4.8
9:33	4.8
9:34	4.8
9:35	4.8
9:36	4.7
9:37	4.7
9:38	4.7
9:39	4.7
9:40	4.7
9:41	4.7
9:42	4.7
9:43	4.7
9:44	4.7
9:45	4.7
Ave.	4.7

Time	PMU
9:46	4.7
9:47	4.6
9:48	4.6
9:49	4.6
9:50	4.6
9:51	4.6
9:52	4.6
9:53	4.6
9:54	4.6
9:55	4.6
9:56	4.6
9:57	4.6
9:58	4.5
9:59	4.5
10:00	4.5
Ave.	4.6
10:01	4.5
10:02	4.5
10:03	4.5
10:04	4.5
10:05	4.5
10:06	4.5
10:07	4.5
10:08	4.5
10:09	4.5
10:10	4.5
10:11	4.4
10:12	4.4
10:13	4.4
10:14	4.4
10:15	4.4
Ave.	4.5
10:16	4.4
10:17	4.4
10:18	4.4
10:19	4.4
10:20	4.4
10:21	4.4
10:22	4.4
10:23	4.4
10:24	4.3
10:25	4.3
10:26	4.3
10:27	4.3
10:28	4.3
10:29	4.3
10:30	4.3
Ave.	4.4

Time	PMU
10:31	4.3
10:32	4.3
10:33	4.3
10:34	4.3
10:35	4.3
10:36	4.3
10:37	4.2
10:38	4.2
10:39	4.2
10:40	4.2
10:41	4.2
10:42	4.2
10:43	4.2
10:44	4.2
10:45	4.2
Ave.	4.2
10:46	4.2
10:47	4.2
10:48	4.2
10:49	4.2
10:50	4.2
10:51	4.2
10:52	4.1
10:53	4.1
10:54	4.1
10:55	4.1
10:56	4.1
10:57	4.1
10:58	4.1
10:59	4.1
11:00	4.1
Ave.	4.1
11:01	4.1
11:02	4.1
11:03	4.1
11:04	4.1
11:05	4.1
11:06	4.1
11:07	4.1
11:08	4.0
11:09	4.0
11:10	4.0
11:11	4.0
11:12	4.0
11:13	4.0
11:14	4.0
11:15	4.0
Ave.	4.0

Time	PMU
11:16	4.0
11:17	4.0
11:18	4.0
11:19	4.0
11:20	4.0
11:21	4.0
11:22	4.0
11:23	4.0
11:24	3.9
11:25	3.9
11:26	3.9
11:27	3.9
11:28	3.9
11:29	3.9
11:30	3.9
Ave.	4.0
11:31	3.9
11:32	3.9
11:33	3.9
11:34	3.9
11:35	3.9
11:36	3.9
11:37	3.9
11:38	3.9
11:39	3.9
11:40	3.8
11:41	3.8
11:42	3.8
11:43	3.8
11:44	3.8
11:45	3.8
Ave.	3.9
11:46	3.8
11:47	3.8
11:48	3.8
11:49	3.8
11:50	3.8
11:51	3.8
11:52	3.8
11:53	3.8
11:54	3.8
11:55	3.8
11:56	3.8
11:57	3.8
11:58	3.8
11:59	3.8
12:00	3.8
Ave.	3.8

Time	PMU
12:01	3.8
12:02	3.9
12:03	4.0
12:04	4.1
12:05	4.2
12:06	4.3
12:07	4.5
12:08	4.7
12:09	5.0
12:10	5.1
12:11	5.2
12:12	5.2
12:13	5.3
12:14	5.4
12:15	5.5
Ave.	4.7
12:16	5.7
12:17	5.9
12:18	6.1
12:19	6.2
12:20	6.3
12:21	6.3
12:22	6.5
12:23	6.7
12:24	6.9
12:25	7.0
12:26	7.2
12:27	7.3
12:28	7.4
12:29	7.6
12:30	7.7
Ave.	6.7
12:31	7.9
12:32	8.1
12:33	8.3
12:34	8.4
12:35	8.5
12:36	8.7
12:37	8.8
12:38	8.9
12:39	9.0
12:40	9.2
12:41	9.4
12:42	9.5
12:43	9.7
12:44	9.9
12:45	10.1
Ave.	9.0

Time	PMU
12:46	10.3
12:47	10.5
12:48	10.7
12:49	10.9
12:50	11.0
12:51	11.2
12:52	11.4
12:53	11.7
12:54	11.9
12:55	12.2
12:56	12.5
12:57	12.8
12:58	12.9
12:59	13.1
13:00	13.2
Ave.	11.8
13:01	13.6
13:02	14.0
13:03	14.2
13:04	14.5
13:05	14.8
13:06	15.2
13:07	15.5
13:08	15.8
13:09	16.1
13:10	16.5
13:11	16.8
13:12	17.2
13:13	17.4
13:14	17.5
13:15	17.7
Ave.	15.8
13:16	18.1
13:17	18.6
13:18	19.0
13:19	19.4
13:20	19.7
13:21	20.1
13:22	20.5
13:23	21.0
13:24	21.5
13:25	21.8
13:26	22.2
13:27	22.5
13:28	23.0
13:29	23.4
13:30	23.8
Ave.	21.0

Time	PMU
13:31	24.3
13:32	24.9
13:33	25.4
13:34	25.9
13:35	26.5
13:36	27.0
13:37	27.7
13:38	28.4
13:39	29.1
13:40	29.9
13:41	30.6
13:42	31.3
13:43	31.9
13:44	32.6
13:45	33.3
Ave.	28.6
13:46	34.1
13:47	34.9
13:48	35.7
13:49	36.7
13:50	37.7
13:51	38.7
13:52	39.9
13:53	41.2
13:54	42.4
13:55	44.1
13:56	45.7
13:57	47.3
13:58	51.0
13:59	54.7
14:00	58.3
Ave.	42.8
14:01	58.2
14:02	58.1
14:03	58.0
14:04	57.8
14:05	57.7
14:06	57.6
14:07	57.4
14:08	57.3
14:09	57.2
14:10	57.1
14:11	56.9
14:12	56.8
14:13	56.7
14:14	56.6
14:15	56.4
Ave.	57.3

Time	PMU
14:16	56.3
14:17	56.2
14:18	56.1
14:19	55.9
14:20	55.8
14:21	55.7
14:22	55.6
14:23	55.5
14:24	55.3
14:25	55.2
14:26	55.1
14:27	55.0
14:28	54.8
14:29	54.7
14:30	54.6
Ave.	55.5

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO. Exercise 91	PAGE ____ of ____
SHEET NO. 3i-1 REV 1	RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF:

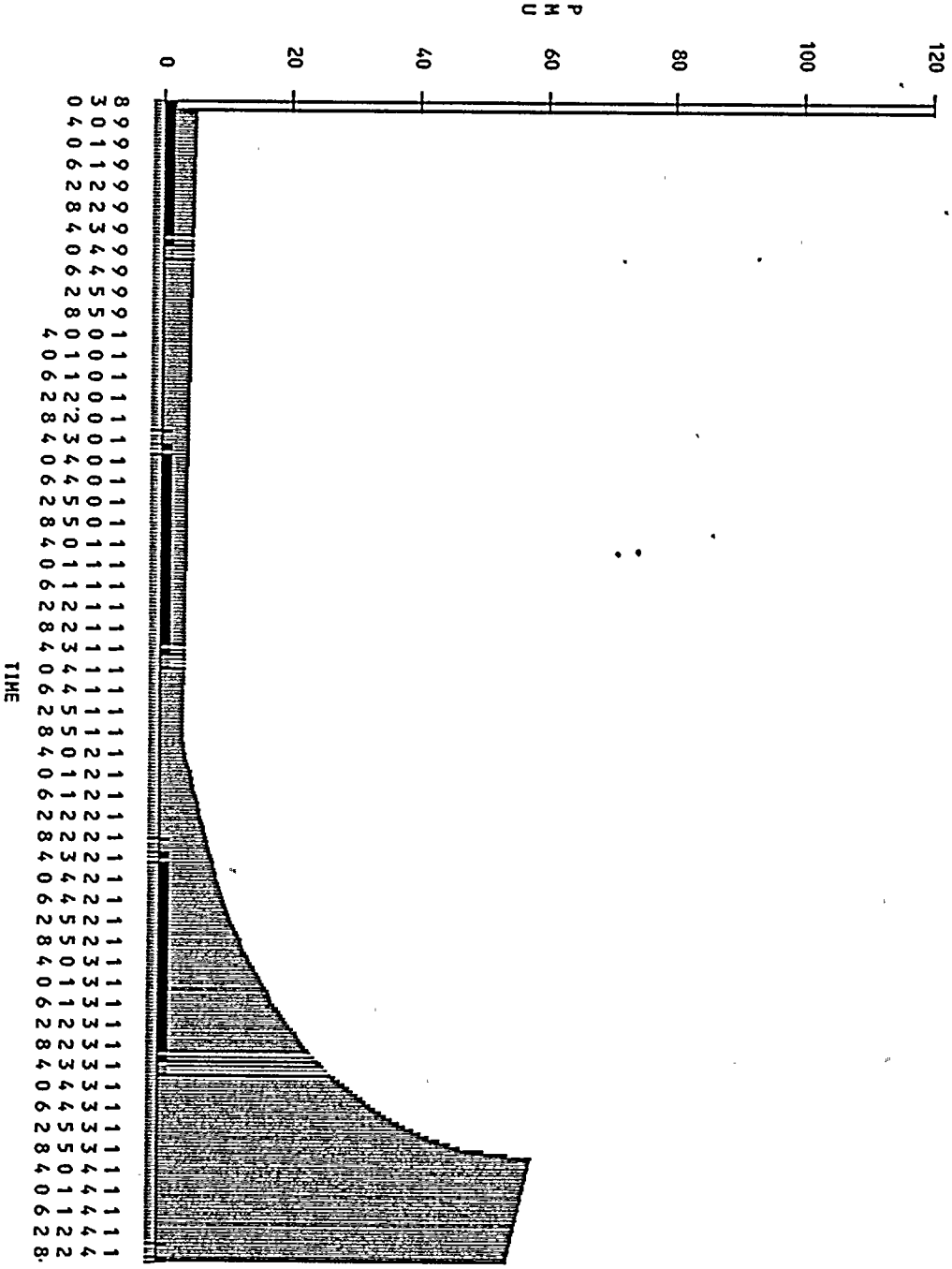
REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Fixed Monitor Readings - REA-RIS-19 A
Reactor Building Release



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3j	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐ AM ☐ PM	TO	14:30 ☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - MS-RIS-610 A, B, C, & D

Main Steam Line Monitors are at background level throughout Exercise 91

MS-RIS-610A		MS-RIS-610B		MS-RIS-610C		MS-RIS-610D	
Time	mR/hr	Time	mR/hour	Time	mR/hour	Time	mR/hour
8:00	4.00E+00	8:00	9.00E+00	8:00	1.60E+01	8:00	3.00E+00
8:15	4.00E+00	8:15	9.00E+00	8:15	1.60E+01	8:15	3.00E+00
8:30	4.00E+00	8:30	9.00E+00	8:30	1.60E+01	8:30	3.00E+00
8:45	4.00E+00	8:45	9.00E+00	8:45	1.60E+01	8:45	3.00E+00
9:00	4.00E+00	9:00	9.00E+00	9:00	1.60E+01	9:00	3.00E+00
9:15	4.00E+00	9:15	9.00E+00	9:15	1.60E+01	9:15	3.00E+00
9:30	4.00E+00	9:30	9.00E+00	9:30	1.60E+01	9:30	3.00E+00
9:45	4.00E+00	9:45	9.00E+00	9:45	1.60E+01	9:45	3.00E+00
10:00	4.00E+00	10:00	9.00E+00	10:00	1.60E+01	10:00	3.00E+00
10:15	4.00E+00	10:15	9.00E+00	10:15	1.60E+01	10:15	3.00E+00
10:30	4.00E+00	10:30	9.00E+00	10:30	1.60E+01	10:30	3.00E+00
10:45	4.00E+00	10:45	9.00E+00	10:45	1.60E+01	10:45	3.00E+00
11:00	4.00E+00	11:00	9.00E+00	11:00	1.60E+01	11:00	3.00E+00
11:15	4.00E+00	11:15	9.00E+00	11:15	1.60E+01	11:15	3.00E+00
11:30	4.00E+00	11:30	9.00E+00	11:30	1.60E+01	11:30	3.00E+00
11:45	4.00E+00	11:45	9.00E+00	11:45	1.60E+01	11:45	3.00E+00
12:00	4.00E+00	12:00	9.00E+00	12:00	1.60E+01	12:00	3.00E+00
12:05	4.00E+00	12:05	9.00E+00	12:05	1.60E+01	12:05	3.00E+00
12:10	4.00E+00	12:10	9.00E+00	12:10	1.60E+01	12:10	3.00E+00
12:15	4.00E+00	12:15	9.00E+00	12:15	1.60E+01	12:15	3.00E+00
12:15	4.00E+00	12:15	9.00E+00	12:15	1.60E+01	12:15	3.00E+00
12:20	4.00E+00	12:20	9.00E+00	12:20	1.60E+01	12:20	3.00E+00
12:30	4.00E+00	12:30	9.00E+00	12:30	1.60E+01	12:30	3.00E+00
12:45	4.00E+00	12:45	9.00E+00	12:45	1.60E+01	12:45	3.00E+00
13:00	4.00E+00	13:00	9.00E+00	13:00	1.60E+01	13:00	3.00E+00
13:15	4.00E+00	13:15	9.00E+00	13:15	1.60E+01	13:15	3.00E+00
13:30	4.00E+00	13:30	9.00E+00	13:30	1.60E+01	13:30	3.00E+00
13:45	4.00E+00	13:45	9.00E+00	13:45	1.60E+01	13:45	3.00E+00
14:00	4.00E+00	14:00	9.00E+00	14:00	1.60E+01	14:00	3.00E+00
14:15	4.00E+00	14:15	9.00E+00	14:15	1.60E+01	14:15	3.00E+00
14:30	4.00E+00	14:30	9.00E+00	14:30	1.60E+01	14:30	3.00E+00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3k	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - LOCA Monitors CMS-RIS-27 A& B, C & D and E&F

CMS-RIS-27A & 27B (R/hr)

Time	27A	27B
8:00	0.30	0.30
8:15	0.30	0.30
8:30	0.30	0.30
8:45	0.30	0.30
9:00	0.30	0.30
9:15	0.30	0.30
9:30	0.30	0.30
9:45	0.30	0.30
10:00	0.30	0.30
10:15	0.30	0.30
10:30	0.30	0.30
10:45	0.30	0.30
11:00	0.30	0.30
11:15	0.30	0.30
11:30	0.30	0.30
11:45	0.30	0.30
12:00	0.30	0.30
12:05	0.30	0.30
12:10	0.30	0.30
12:15	0.30	0.30
12:20	0.30	0.30
12:25	0.30	0.30
12:30	0.30	0.30
12:45	0.30	0.30
13:00	0.37	0.33
13:15	0.55	0.50
13:30	0.81	0.73
13:45	1.21	1.09
14:00	2.25	2.03
14:15	2.17	1.96
14:30	2.10	1.89

CMS-RIS-27C& 27D (R/hr)

Time	27C r/hr	27D
8:00	< 10^-2	< 10^-2
8:15	< 10^-2	< 10^-2
8:30	< 10^-2	< 10^-2
8:45	< 10^-2	< 10^-2
9:00	< 10^-2	< 10^-2
9:15	< 10^-2	< 10^-2
9:30	< 10^-2	< 10^-2
9:45	< 10^-2	< 10^-2
10:00	< 10^-2	< 10^-2
10:15	< 10^-2	< 10^-2
10:30	< 10^-2	< 10^-2
10:45	< 10^-2	< 10^-2
11:00	< 10^-2	< 10^-2
11:15	< 10^-2	< 10^-2
11:30	< 10^-2	< 10^-2
11:45	< 10^-2	< 10^-2
12:00	< 10^-2	< 10^-2
12:05	< 10^-2	< 10^-2
12:10	< 10^-2	< 10^-2
12:15	< 10^-2	< 10^-2
12:20	< 10^-2	< 10^-2
12:25	< 10^-2	< 10^-2
12:30	< 10^-2	< 10^-2
12:45	< 10^-2	< 10^-2
13:00	< 10^-2	< 10^-2
13:15	< 10^-2	< 10^-2
13:30	< 10^-2	< 10^-2
13:45	2.7E-02	2.58E-02
14:00	4.8E-02	4.55E-02
14:15	4.6E-02	4.40E-02
14:30	4.5E-02	4.25E-02

CMS-RIS-27E & 27F (R/hr)

Time	27E	27F
8:00	1.2	D.S.
8:15	1.2	D.S.
8:30	1.2	D.S.
8:45	1.2	D.S.
9:00	1.2	D.S.
9:15	1.2	D.S.
9:30	1.2	D.S.
9:45	1.2	D.S.
10:00	1.2	1.0
10:15	1.5	2.0
10:30	1.9	2.9
10:45	2.2	3.9
11:00	2.5	4.8
11:15	2.8	5.8
11:30	3.2	6.7
11:45	3.5	7.7
12:00	2.6	7.6
12:05	14	40
12:10	42	122
12:15	57	165
12:20	80	233
12:25	105	308
12:30	129	376
12:45	211	616
13:00	321	938
13:15	480	1402
13:30	702	2052
13:45	1049	3067
14:00	1950	5700
14:15	1884	5506
14:30	1820	5319

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
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SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
31	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - REA-RIS-609A,B,C,and D

REA-RIS-609A,B,C,and D Dectector Range 10^-2 to 10^2

Time	Reading mr/hr 609A	Reading mr/hr 609B	Reading mr/hr 609C	Reading mr/hr 609D
8:00	1.2E-01	2.5E-01	7.0E-02	3.2E-01
8:15	1.2E-01	2.5E-01	7.0E-02	3.2E-01
8:30	1.2E-01	2.5E-01	7.0E-02	3.2E-01
8:45	1.2E-01	2.5E-01	7.0E-02	3.2E-02
9:00	Offscale	Offscale	Offscale	Offscale
9:15	Offscale	Offscale	Offscale	Offscale
9:30	Offscale	Offscale	Offscale	Offscale
9:45	Offscale	Offscale	Offscale	Offscale
10:00	Offscale	Offscale	Offscale	Offscale
10:15	Offscale	Offscale	Offscale	Offscale
10:30	Offscale	Offscale	Offscale	Offscale
10:45	Offscale	Offscale	Offscale	Offscale
11:00	Offscale	Offscale	Offscale	Offscale
11:15	Offscale	Offscale	Offscale	Offscale
11:30	Offscale	Offscale	Offscale	Offscale
11:45	Offscale	Offscale	Offscale	Offscale
12:00	Offscale	Offscale	Offscale	Offscale
12:05	Offscale	Offscale	Offscale	Offscale
12:10	Offscale	Offscale	Offscale	Offscale
12:15	Offscale	Offscale	Offscale	Offscale
12:20	Offscale	Offscale	Offscale	Offscale
12:25	Offscale	Offscale	Offscale	Offscale
12:30	Offscale	Offscale	Offscale	Offscale
12:45	Offscale	Offscale	Offscale	Offscale
13:00	Offscale	Offscale	Offscale	Offscale
13:15	Offscale	Offscale	Offscale	Offscale
13:30	Offscale	Offscale	Offscale	Offscale
13:45	Offscale	Offscale	Offscale	Offscale
14:00	Offscale	Offscale	Offscale	Offscale
14:15	Offscale	Offscale	Offscale	Offscale
14:30	Offscale	Offscale	Offscale	Offscale

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION GENERAL DATA SHEET

L NO.	PAGE
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SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3m	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐ AM ☐ PM	TO	14:30 ☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - OG-RIS-601 A&B

Offgas Post Treatment Monitors Response in CPM

OG-RIS-601A	
Time	CPM
8:00	30
8:15	30
8:30	30
8:45	30
9:00	30
9:15	30
9:30	30
9:45	30
10:00	30
10:15	30
10:30	30
10:45	30
11:00	30
11:15	30
11:30	30
11:45	30
12:00	30
12:05	30
12:10	30
12:15	30
12:20	30
12:25	30
12:30	30
12:45	30
13:00	30
13:15	30
13:30	30
13:45	30
14:00	30
14:15	30
14:30	30

OG-RIS-601B	
Time	CPM
8:00	20
8:15	20
8:30	20
8:45	20
9:00	20
9:15	20
9:30	20
9:45	20
10:00	20
10:15	20
10:30	20
10:45	20
11:00	20
11:15	20
11:30	20
11:45	20
12:00	30
12:05	30
12:10	30
12:15	30
12:20	30
12:25	30
12:30	30
12:45	20
13:00	20
13:15	20
13:30	20
13:45	20
14:00	20
14:15	20
14:30	20

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
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SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3n	CR (Simulator)

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Fixed Monitor Readings -
OG- RIS-612

OG-RIS-612

Time	mR/hr
8:00	15
8:15	15
8:30	15
8:45	15
9:00	15
9:15	15
9:30	15
9:45	15
10:00	15
10:15	15
10:30	15
10:45	15
11:00	15
11:15	15
11:30	15
11:45	15
12:00	15
12:05	15
12:10	15
12:15	15
12:20	15
12:25	15
12:30	15
12:45	15
13:00	15
13:15	15
13:30	15
13:45	15
14:00	15
14:15	15
14:30	15

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
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SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3o	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME 0:00 HOURS	TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - TEA-RIS-13 & 3A Turbine Generator Building Release

Calibration Factor = 4.284 E+7 CPM/uCi/cc
Noble Gas Beta Emitters only.

TEA-RIS-13

Time	Counts per minute	
8:00	110	CPM
8:15	110	CPM
8:30	110	CPM
8:45	110	CPM
9:00	110	CPM
9:15	110	CPM
9:30	110	CPM
9:45	110	CPM
10:00	110	CPM
10:15	110	CPM
10:30	110	CPM
10:45	110	CPM
11:00	110	CPM
11:15	110	CPM
11:30	110	CPM
11:45	110	CPM
12:00	110	CPM
12:05	110	CPM
12:10	110	CPM
12:15	110	CPM
12:20	110	CPM
12:25	110	CPM
12:30	110	CPM
12:45	110	CPM
13:00	110	CPM
13:15	110	CPM
13:30	110	CPM
13:45	110	CPM
14:00	110	CPM
14:15	110	CPM
14:30	110	CPM

Calibration Factor=100 PMU/uCi/cc for Xe-133
Noble Gas Beta Emitters only.

TEA-RIS-13A

Time	Panel Meter Units	
8:00	1.4	PMU
8:15	1.4	PMU
8:30	1.4	PMU
8:45	1.4	PMU
9:00	1.4	PMU
9:15	1.4	PMU
9:30	1.4	PMU
9:45	1.4	PMU
10:00	1.4	PMU
10:15	1.4	PMU
10:30	1.4	PMU
10:45	1.4	PMU
11:00	1.4	PMU
11:15	1.4	PMU
11:30	1.4	PMU
11:45	1.4	PMU
12:00	1.4	PMU
12:05	1.4	PMU
12:10	1.4	PMU
12:15	1.4	PMU
12:20	1.4	PMU
12:25	1.4	PMU
12:30	1.4	PMU
12:45	1.4	PMU
13:00	1.4	PMU
13:15	1.4	PMU
13:30	1.4	PMU
13:45	1.4	PMU
14:00	1.4	PMU
14:15	1.4	PMU
14:30	1.4	PMU

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 3p | RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Fixed Monitor Readings - CMS, SW, & RCC Series

Time	CMS-RIS-12/1A&1B Primary Containment Particulate Monitors RB 548' Elevation (cpm) 12/1A	12/1B	CMS-RIS-12/3A&3B Primary Containment Noble Gas Monitors RB 548' Elevation (cpm) 12/3A	12/3B	SW-RIS-604 RHR-A RAD Monitor RB 501' El (cps)	SW-RIS-605 RHR-B RAD Monitor RB 522El (cps)	RCC-RIS-607 Closed CW RAD Monitor RB 548' El (cps)
8:00	3400	3800	2200	1900	4	7	20
8:15	3400	3800	2200	1900	4	7	20
8:30	3500	3900	2300	2000	4	7	20
8:45	3500	3900	2300	2000	4	7	20
9:00	7916	8316	6716	6416	49	97	110
9:15	7634	8034	6434	6134	46	92	105
9:30	7358	7758	6158	5858	44	86	99
9:45	7106	7506	5906	5606	41	81	94
10:00	6876	7276	5676	5376	39	77	90
10:15	6665	7065	5465	5165	37	72	85
10:30	6472	6872	5272	4972	35	68	81
10:45	6295	6695	5095	4795	33	65	78
11:00	6133	6533	4933	4633	31	62	75
11:15	5983	6383	4783	4483	30	59	72
11:30	5845	6245	4645	4345	28	56	69
11:45	5718	6118	4518	4218	27	53	66
12:00	5600	6000	4400	4100	26	51	64
12:05	5916	6316	4716	4416	29	57	70
12:10	6587	6987	5387	5087	36	71	84
12:15	6911	7311	5711	5411	39	77	90
12:20	7426	7826	6226	5926	44	88	101
12:25	7993	8393	6793	6493	50	99	112
12:30	8488	8888	7288	6988	55	109	122
12:45	10162	10562	8962	8662	72	142	155
13:00	12346	12596	11146	10846	93	186	199
13:15	15422	15572	14222	13922	124	247	260
13:30	19624	19749	18424	18124	166	331	344
13:45	26113	26238	24913	24613	231	461	474
14:00	43385	43485	42185	41885	404	807	820
14:15	41660	41760	40460	40160	387	772	785
14:30	40034	40134	38834	38534	370	740	753

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

.L NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3q	CR (Simulator)

VALID FOR TIMES OF:									
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - CAM's TG Building 441', 471', 501' El. & OSC 441'

CAM Reading Fullscale 100k cpm

CAM Readings (cpm) Turbine Generator Building & OSC &GSB 441'

Time	TB1A TGB441' Elev.	TB2A TGB471' Elev.	TB3A TGB501' Elev.	Service Bldg. by OSC Elev. 441'	GSB by HP Access Elev. 441'
8:00	2200	1500	1250	1800	1700
8:15	2200	1500	1250	1800	1700
8:30	2200	1500	1250	1800	1700
8:45	2200	1500	1250	1800	1700
9:00	2313	1500	1250	1892	1787
9:15	2306	1500	1250	1887	1782
9:30	2299	1500	1250	1881	1776
9:45	2293	1500	1250	1876	1772
10:00	2287	1500	1250	1871	1767
10:15	2282	1500	1250	1867	1763
10:30	2277	1500	1250	1863	1759
10:45	2272	1500	1250	1859	1756
11:00	2268	1500	1250	1856	1753
11:15	2265	1500	1250	1853	1750
11:30	2261	1500	1250	1850	1747
11:45	2258	1500	1250	1847	1745
12:00	2255	1500	1250	1845	1743
12:05	2263	1500	1250	1851	1749
12:10	2280	1500	1250	1865	1762
12:15	2288	1500	1250	1872	1768
12:20	2301	1500	1250	1882	1778
12:25	2315	1500	1250	1894	1789
12:30	2327	1500	1250	1904	1798
12:45	2369	1500	1250	1938	1831
13:00	2424	1500	1250	1983	1873
13:15	2501	1500	1250	2046	1932
13:30	2606	1500	1250	2132	2013
13:45	2768	1500	1250	2265	2139
14:00	3200	1500	1250	2618	2473
14:15	3157	1500	1250	2583	2439
14:30	3116	1500	1250	2549	2408

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3r	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings - WEA, WOA, Series

Readings are constant for the entire Exercise 91 time

Monitor	Type/Location	Reading
WEA-RIS-14	RW Vent Exhaust, RW 487' Elev. Normal Range	45cpm
WEA-RIS-14A	RW Vent Exhaust, RW 487' Elev. Extended Range	1.4PMU
WOA-RIS-31A	CR Remote Air Intake# 1	20 cpm
WOA-RIS-31B	CR Remote Air Intake# 1	23cpm
WOA-RIS-32A	CR Remote Air Intake# 2	19cpm
WOA-RIS-32B	CR Remote Air Intake# 2	40cpm

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
3s	CR (Simulator) ,OSC, and TSC

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Fixed Monitor Readings -CAM's Reactor building 501', 572', & 606' Elev.

(Continous Air Monitor Readings)

Time	RRA-RIS-1 RB 606' Elev. (cpm)	RRA-RIS-1A RB 606' Elev. (IODINE) (cpm)	RRA-RIS-2 RB 501' Elev. (cpm)	RRA-RIS-3 RB 572' Elev. (cpm)	RB-1A RB 501' Elev. (cpm)	RB-2A RB 572' Elev. (cpm)	RB-4A RB 606' Elev. (cpm)
8:00	1650	900	2000	1250	2250	1500	1000
8:15	1650	900	2000	1250	2250	1500	1000
8:30	1650	900	2000	1250	2250	1500	1000
8:45	1650	900	2000	1250	2250	1500	1000
9:00	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
9:15	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
9:30	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
9:45	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
10:00	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
10:15	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
10:30	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
10:45	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
11:00	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
11:15	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
11:30	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
11:45	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:00	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:05	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:10	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:15	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:20	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:25	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:30	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
12:45	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
13:00	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
13:15	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
13:30	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
13:45	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
14:00	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
14:15	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale
14:30	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale	Offscale

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.	Exercise 91	PAGE ____ of ____
SHEET NO. 4	RESPONSIBLE CONTROLLER (LOCATION) ALL	

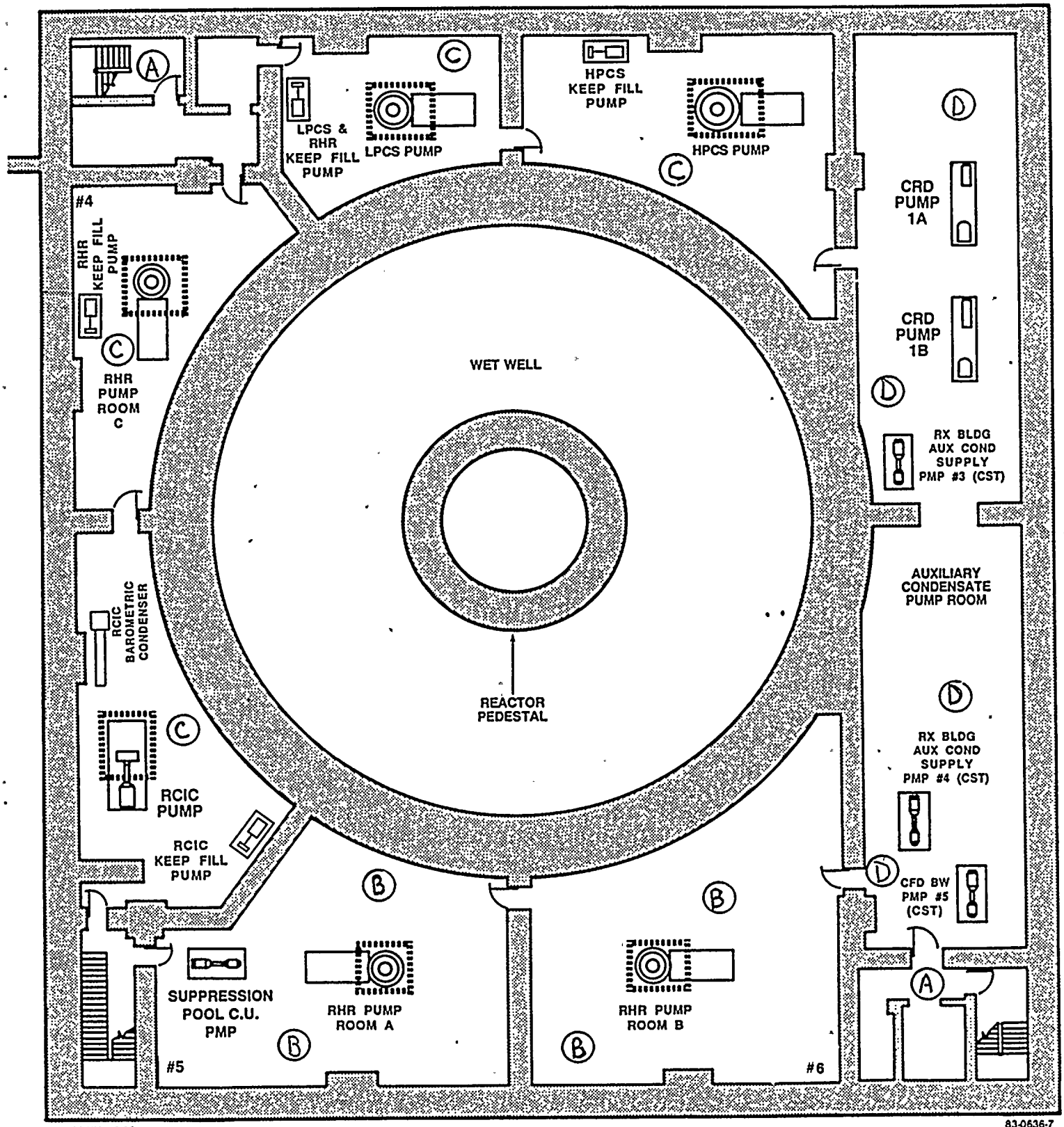
VALID FOR TIMES OF: REAL TIME 0800 ☐ AM ☐ PM TO 1430 ☐ AM ☐ PM

DRILL TIME 0000 HOURS TO 0630 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
In Plant Area
Dose Rates

SHT NO.	*TITLE*	
4a	Direct Readings Reactor Building	422' elevation
4b	Direct Readings Reactor Building	441' elevation
4c	Direct Readings Reactor Building	471' elevation
4d	Direct Readings Reactor Building	501' elevation
4e	Direct Readings Reactor Building	522' elevation
4f	Direct Readings Reactor Building	548' elevation
4g	Direct Readings Reactor Building	572' elevation
4h	Direct Readings Reactor Building	606' elevation
4i	Direct Readings Primary Access Point and OSC	
4j	Direct Readings General Service Building - 441' & 456' elevations	
4k	Direct Readings Technical Support Center & Air Sample Results	
4l	Direct Readings Turbine Generator Building - (All elevations)	
4m	Air Sample Results - Reactor Building (DPM)	
4n	Air Sample Results - Reactor Building (Concentration μCi/cc)	
4o	Air Sample Concentration SR-37 Reactor Building (606' elevation)	
4p	Air Sample Concentration SR-48 Reactor Building (TGB Roof)	



83-0636-XX, 10/83
REPLACES ALL OTHER DRAWINGS

83-0636-7
10/83

REACTOR BLDG. ELEV. 422'

870676.70

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 4a | RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

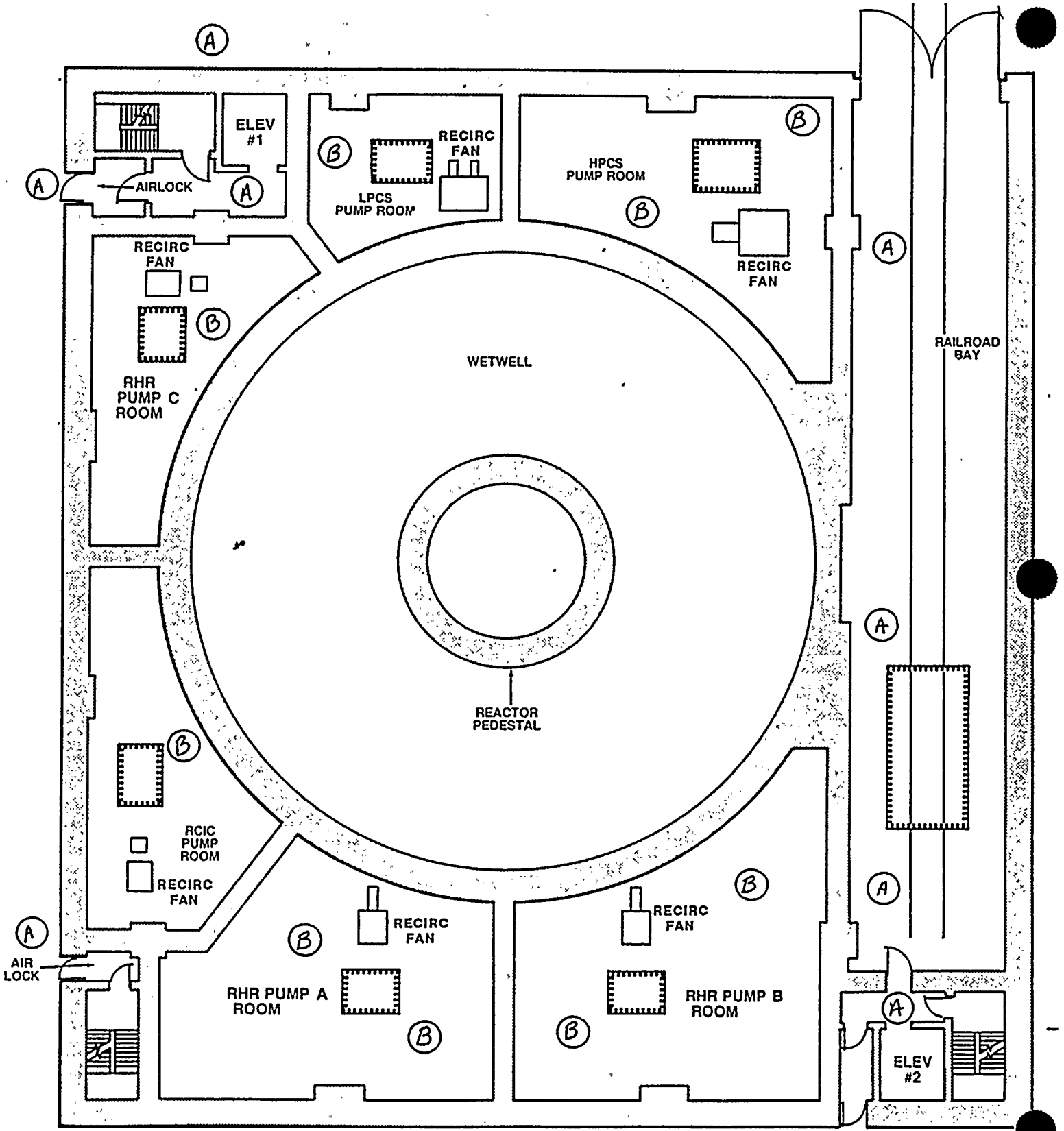
VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Direct Readings
Reactor Building 422' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	D mr/hr	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr
8:00	3	10	5	2	100	0.02	100	0.02	100	0.02	100	0.02
8:15	3	10	5	2	100	0.02	100	0.02	100	0.02	100	0.02
8:30	3	10	5	2	100	0.02	100	0.02	100	0.02	100	0.02
8:45	3	10	5	2	100	0.02	100	0.02	100	0.02	100	0.02
9:00	72	355	328	257	100	0.02	168	0.03	164	0.03	90	0.018
9:15	68	334	308	241	100	0.02	503	0.10	493	0.10	90	0.018
9:30	64	313	288	226	197	0.00	1006	0.20	986	0.20	178	0.04
9:45	60	294	271	212	329	0.00	1677	0.34	1644	0.33	296	0.06
10:00	56	277	254	199	493	0.10	2516	0.50	2466	0.49	444	0.09
10:15	53	262	239	187	654	0.13	3334	0.67	3268	0.65	588	0.12
10:30	50	247	226	176	810	0.16	4133	0.83	4052	0.81	729	0.15
10:45	48	234	213	166	964	0.19	4914	0.98	4818	0.96	867	0.17
11:00	45	222	201	157	1114	0.22	5679	1.14	5568	1.11	1002	0.20
11:15	43	211	191	149	1261	0.25	6429	1.29	6303	1.26	1134	0.23
11:30	41	200	181	141	1405	0.28	7164	1.43	7024	1.40	1264	0.25
11:45	39	191	172	134	1546	0.31	7887	1.58	7732	1.55	1392	0.28
12:00	37	182	164	127	1701	0.34	8674	1.73	8504	1.70	1531	0.31
12:05	42	206	186	145	1859	0.37	9479	1.90	9294	1.86	1673	0.33
12:10	52	256	234	183	2024	0.40	10323	2.06	10121	2.02	1822	0.36
12:15	57	280	257	201	2223	0.44	11339	2.27	11117	2.22	2001	0.40
12:20	65	318	293	229	2446	0.49	12475	2.49	12230	2.45	2201	0.44
12:25	73	361	333	261	2694	0.54	13737	2.75	13468	2.69	2424	0.48
12:30	81	398	369	289	2976	0.60	15179	3.04	14881	2.98	2679	0.54
12:45	106	523	487	383	3383	0.68	17255	3.45	16917	3.38	3045	0.61
13:00	138	686	642	505	3982	0.80	20309	4.06	19911	3.98	3584	0.72
13:15	184	916	861	677	4757	0.95	24259	4.85	23783	4.76	4281	0.86
13:30	247	1229	1159	913	5772	1.15	29435	5.89	28858	5.77	5194	1.04
13:45	344	1714	1619	1276	7158	1.43	36505	7.30	35789	7.16	6442	1.29
14:00	602	3004	2845	2244	7015	1.40	35775	7.15	35073	7.01	6313	1.26
14:15	576	2875	2722	2147	6872	1.37	35045	7.01	34358	6.87	6184	1.24
14:30	552	2754	2607	2056	6728	1.35	34315	6.86	33642	6.73	6056	1.21



83-0636-XX, 10/83
REPLACES ALL OTHER DRAWINGS

REACTOR BLDG. ELEV. 441' & 444'

870676.69

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4b	CR (Simulator)

VALID FOR TIMES OF:

REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

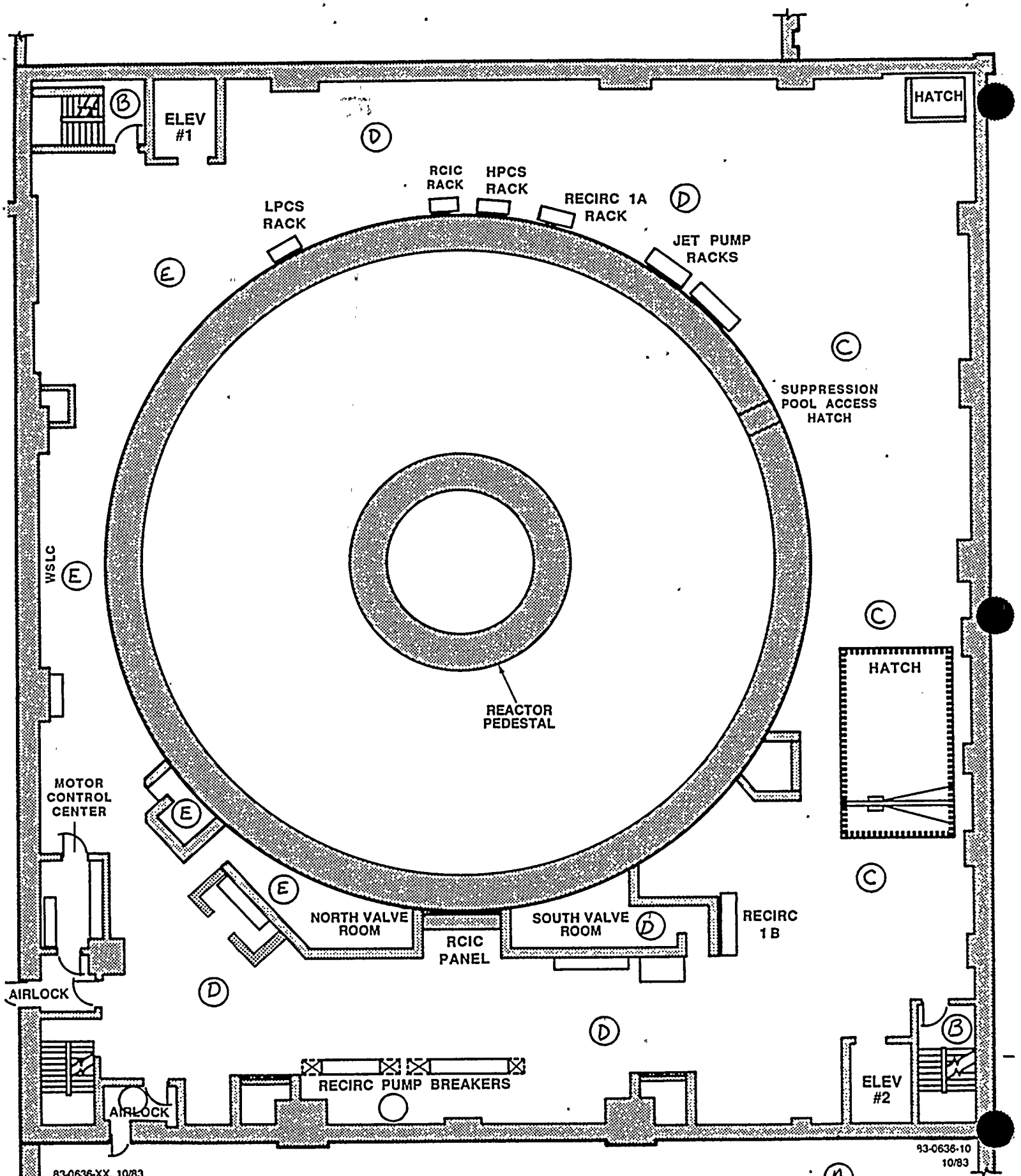
ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Direct Readings
Reactor Building 441' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B (mr/hr)	C (mr/hr)	D (mr/hr)	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr
8:00	0.5	10	12	2	100	0.02	100	0.02	100	0.02	100	0.02
8:15	0.5	10	12	2	100	0.02	100	0.02	100	0.02	100	0.02
8:30	0.5	10	12	2	100	0.02	100	0.02	100	0.02	100	0.02
8:45	0.5	10	12	2	100	0.02	100	0.02	100	0.02	100	0.02
9:00	3.4	35	340	416	100	0.02	133	0.0	280	0.1	280	0.1
9:15	3.2	32	319	391	100	0.02	199	0.0	839	0.2	839	0.2
9:30	3.0	30	298	366	100	0.02	297	0.1	1677	0.3	1677	0.3
9:45	2.8	28	279	343	100	0.02	429	0.1	2795	0.6	2795	0.6
10:00	2.6	27	262	323	100	0.02	593	0.1	4193	0.8	4193	0.8
10:15	2.5	25	247	304	101	0.02	754	0.2	5556	1.1	5556	1.1
10:30	2.3	24	232	287	101	0.02	910	0.2	6888	1.4	6888	1.4
10:45	2.2	22	219	271	101	0.02	1064	0.2	8190	1.6	8190	1.6
11:00	2.1	21	207	256	101	0.02	1214	0.2	9465	1.9	9465	1.9
11:15	2.0	20	196	243	101	0.02	1361	0.3	10714	2.1	10714	2.1
11:30	1.9	19	185	230	101	0.02	1505	0.3	11940	2.4	11940	2.4
11:45	1.8	18	176	219	102	0.02	1646	0.3	13144	2.6	13144	2.6
12:00	1.7	17	167	208	102	0.02	1801	0.4	14456	2.9	14456	2.9
12:05	1.9	20	191	237	102	0.02	1959	0.4	15799	3.2	15799	3.2
12:10	2.4	25	241	297	102	0.02	2124	0.4	17206	3.4	17206	3.4
12:15	2.6	27	265	326	102	0.02	2323	0.5	18898	3.8	18898	3.8
12:20	3.0	31	303	372	102	0.02	2546	0.5	20791	4.2	20791	4.2
12:25	3.5	35	346	423	103	0.02	2794	0.6	22895	4.6	22895	4.6
12:30	3.8	39	383	467	103	0.02	3076	0.6	25298	5.1	25298	5.1
12:45	5.1	51	508	617	103	0.02	3483	0.7	28758	5.8	28758	5.8
13:00	6.7	68	671	813	104	0.02	4082	0.8	33848	6.8	33848	6.8
13:15	9.0	91	901	1089	105	0.02	4857	1.0	40432	8.1	40432	8.1
13:30	12.1	122	1214	1465	106	0.02	5872	1.2	49058	9.8	49058	9.8
13:45	17.0	170	1699	2047	107	0.02	7258	1.5	60842	12.2	60842	12.2
14:00	29.9	299	2989	3595	107	0.02	7115	1.4	59625	11.9	59625	11.9
14:15	28.6	287	2860	3440	107	0.02	6972	1.4	58408	11.7	58408	11.7
14:30	27.4	274	2739	3295	107	0.02	6828	1.4	57191	11.4	57191	11.4



REACTOR BLDG. ELEV. 471'

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 4c | RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

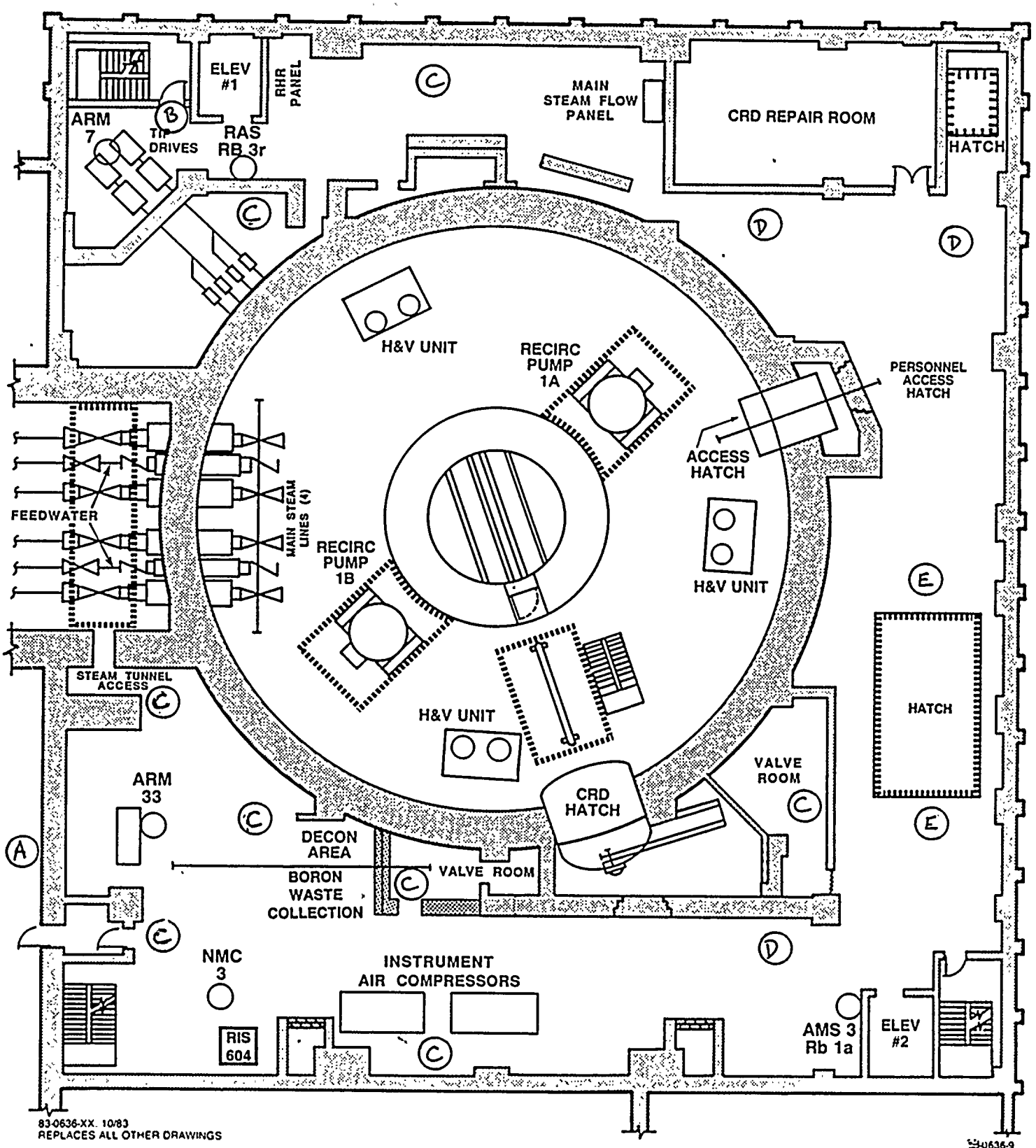
VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Direct Readings, Reactor Building 471' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	D mr/hr	E mr/hr	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr	E cpm	E mrad/hr
8:00	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
8:15	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
8:30	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
8:45	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
9:00	4	45	493	458	403	100	0.02	133	0.03	362	0.1	329	0.1	296	0.1
9:15	4	42	462	429	377	100	0.02	199	0.04	1085	0.2	986	0.2	888	0.2
9:30	4	39	431	402	353	101	0.02	297	0.06	2170	0.4	1973	0.4	1776	0.4
9:45	4	37	404	377	330	102	0.02	429	0.09	3617	0.7	3288	0.7	2959	0.6
10:00	3	34	378	354	309	102	0.02	593	0.1	5426	1.1	4932	1.0	4439	0.9
10:15	3	32	355	333	290	103	0.02	754	0.2	7190	1.4	6536	1.3	5883	1.2
10:30	3	30	334	313	273	104	0.02	910	0.2	8913	1.8	8103	1.6	7293	1.5
10:45	3	29	314	296	257	105	0.02	1064	0.2	10599	2.1	9635	1.9	8672	1.7
11:00	3	27	297	279	242	106	0.02	1214	0.2	12249	2.4	11135	2.2	10022	2.0
11:15	3	25	280	264	229	106	0.02	1361	0.3	13866	2.8	12605	2.5	11345	2.3
11:30	2	24	265	250	216	107	0.02	1505	0.3	15452	3.1	14047	2.8	12643	2.5
11:45	2	23	251	238	205	108	0.02	1646	0.3	17010	3.4	15464	3.1	13918	2.8
12:00	2	22	238	226	194	109	0.02	1801	0.4	18708	3.7	17008	3.4	15307	3.1
12:05	2	25	273	258	223	109	0.02	1959	0.4	20446	4.1	18587	3.7	16728	3.3
12:10	3	31	347	325	283	110	0.02	2124	0.4	22266	4.5	20242	4.0	18218	3.6
12:15	3	35	382	357	312	111	0.02	2323	0.5	24456	4.9	22233	4.4	20010	4.0
12:20	4	40	439	409	359	112	0.02	2546	0.5	26906	5.4	24460	4.9	22014	4.4
12:25	5	46	501	465	410	113	0.02	2794	0.6	29629	5.9	26936	5.4	24242	4.8
12:30	5	50	556	515	454	115	0.02	3076	0.6	32739	6.5	29763	6.0	26787	5.4
12:45	7	67	740	682	605	117	0.02	3483	0.7	37217	7.4	33833	6.8	30450	6.1
13:00	9	89	980	901	802	120	0.02	4082	0.8	43803	8.8	39821	8.0	35839	7.2
13:15	12	120	1318	1208	1078	124	0.02	4857	1.0	52323	10.5	47567	9.5	42810	8.6
13:30	16	162	1781	1628	1457	129	0.03	5872	1.2	63487	12.7	57716	11.5	51944	10.4
13:45	23	227	2494	2277	2041	136	0.03	7258	1.5	78736	15.7	71578	14.3	64421	12.9
14:00	40	399	4394	4004	3595	135	0.03	7115	1.4	77162	15.4	70147	14.0	63132	12.6
14:15	38	382	4204	3832	3440	134	0.03	6972	1.4	75587	15.1	68715	13.7	61844	12.4
14:30	37	366	4026	3669	3293	134	0.03	6828	1.4	74012	14.8	67284	13.5	60555	12.1



83-0636-XX. 10/83
REPLACES ALL OTHER DRAWINGS

REACTOR BLDG. ELEV. 501'

83-0636-9
10/83

870676.73

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91

PAGE ____ of ____

SHEET NO. 4d

RESPONSIBLE CONTROLLER (LOCATION) CR (Simulator)

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

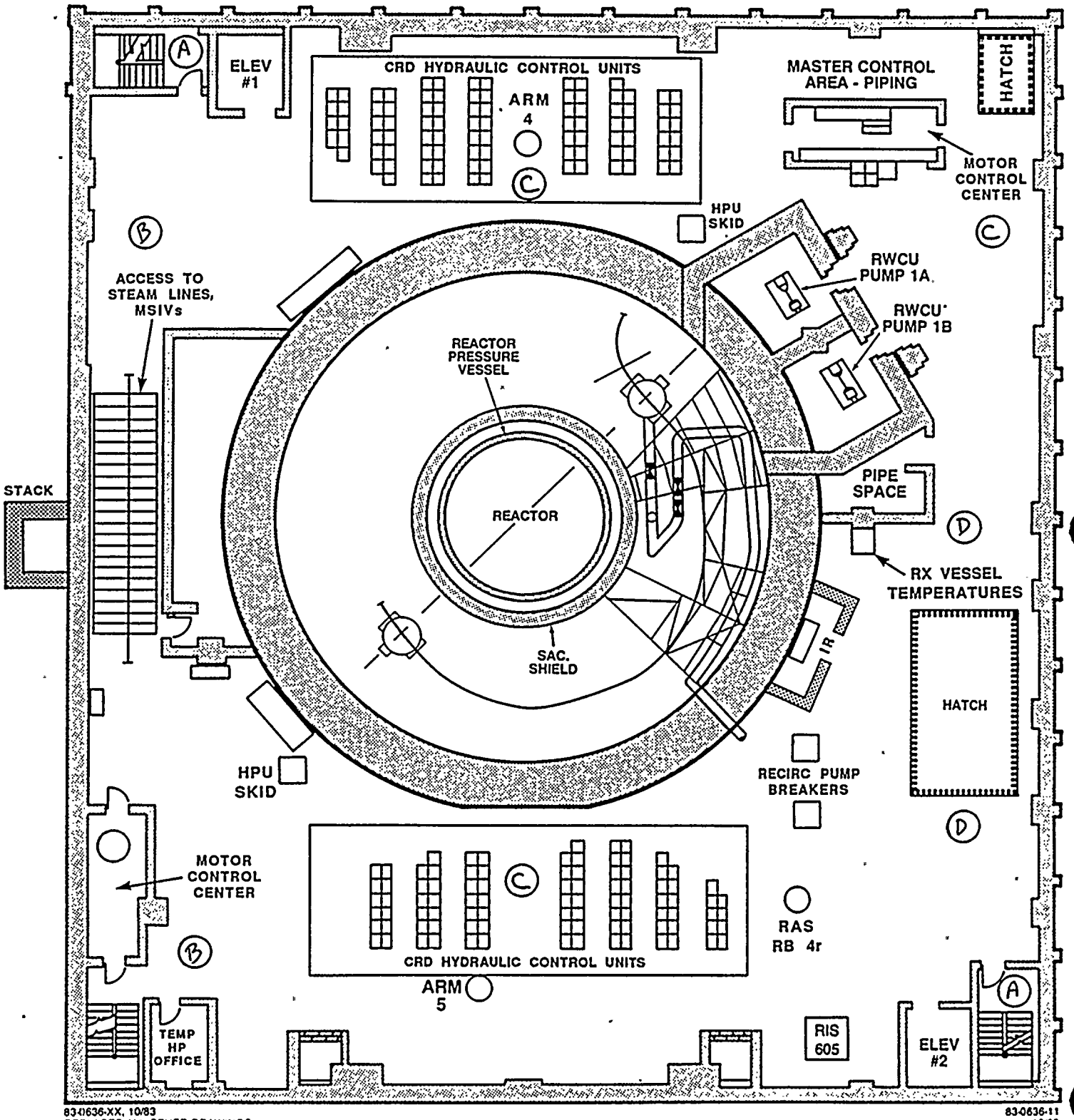
ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Direct Readings
Reactor Building 501' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	D mr/hr	E mr/hr	Contamination Level (cpm/mr/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr	E cpm	E mrad/hr
8:00	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
8:15	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
8:30	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
8:45	0.1	0.5	0.3	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02	100	0.02
9:00	4	50	502	536	602	100	0.02	133	0.03	329	0.1	362	0.1	411	0.1
9:15	4	47	470	503	564	100	0.02	199	0.04	986	0.2	1085	0.2	1233	0.2
9:30	4	44	438	470	526	101	0.02	297	0.1	1973	0.4	2170	0.4	2466	0.5
9:45	4	41	410	440	492	102	0.02	429	0.1	3288	0.7	3617	0.7	4110	0.8
10:00	3	39	383	412	460	102	0.02	593	0.1	4932	1.0	5426	1.1	6166	1.2
10:15	3	36	360	387	432	103	0.02	754	0.2	6536	1.3	7190	1.4	8171	1.6
10:30	3	34	338	364	405	104	0.02	910	0.2	8103	1.6	8913	1.8	10129	2.0
10:45	3	32	317	343	381	105	0.02	1064	0.2	9635	1.9	10599	2.1	12044	2.4
11:00	3	30	299	324	359	106	0.02	1214	0.2	11135	2.2	12249	2.4	13919	2.8
11:15	3	29	282	306	339	106	0.02	1361	0.3	12605	2.5	13866	2.8	15757	3.2
11:30	2	27	266	289	320	107	0.02	1505	0.3	14047	2.8	15452	3.1	17559	3.5
11:45	2	26	252	274	302	108	0.02	1646	0.3	15464	3.1	17010	3.4	19330	3.9
12:00	2	25	238	260	286	109	0.02	1801	0.4	17008	3.4	18708	3.7	21259	4.3
12:05	2	28	275	298	330	109	0.02	1959	0.4	18587	3.7	20446	4.1	23234	4.6
12:10	3	36	352	379	422	110	0.02	2124	0.4	20242	4.0	22266	4.5	25302	5.1
12:15	3	39	389	418	467	111	0.02	2323	0.5	22233	4.4	24456	4.9	27791	5.6
12:20	4	45	448	480	538	112	0.02	2546	0.5	24460	4.9	26906	5.4	30575	6.1
12:25	5	51	514	549	616	113	0.02	2794	0.6	26936	5.4	29629	5.9	33670	6.7
12:30	5	57	570	609	685	115	0.02	3076	0.6	29763	6.0	32739	6.5	37204	7.4
12:45	7	75	763	811	915	117	0.02	3483	0.7	33833	6.8	37217	7.4	42292	8.5
13:00	9	99	1014	1074	1217	120	0.02	4082	0.8	39821	8.0	43803	8.8	49777	10.0
13:15	12	134	1367	1445	1641	124	0.02	4857	1.0	47567	9.5	52323	10.5	59458	11.9
13:30	16	180	1850	1953	2221	129	0.03	5872	1.2	57716	11.5	63487	12.7	72145	14.4
13:45	23	252	2596	2736	3116	136	0.03	7258	1.5	71578	14.3	78736	15.7	89473	17.9
14:00	40	444	4581	4820	5497	135	0.03	7115	1.4	70147	14.0	77162	15.4	87684	17.5
14:15	38	425	4383	4612	5260	134	0.03	6972	1.4	68715	13.7	75587	15.1	85894	17.2
14:30	37	407	4197	4417	5037	134	0.03	6828	1.4	67284	13.5	74012	14.8	84105	16.8



834636-XX, 10/83
REPLACES ALL OTHER DRAWINGS

834636-11
10/83

REACTOR BLDG. ELEV. 522'

870676.71

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4e	CR (Simulator)

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

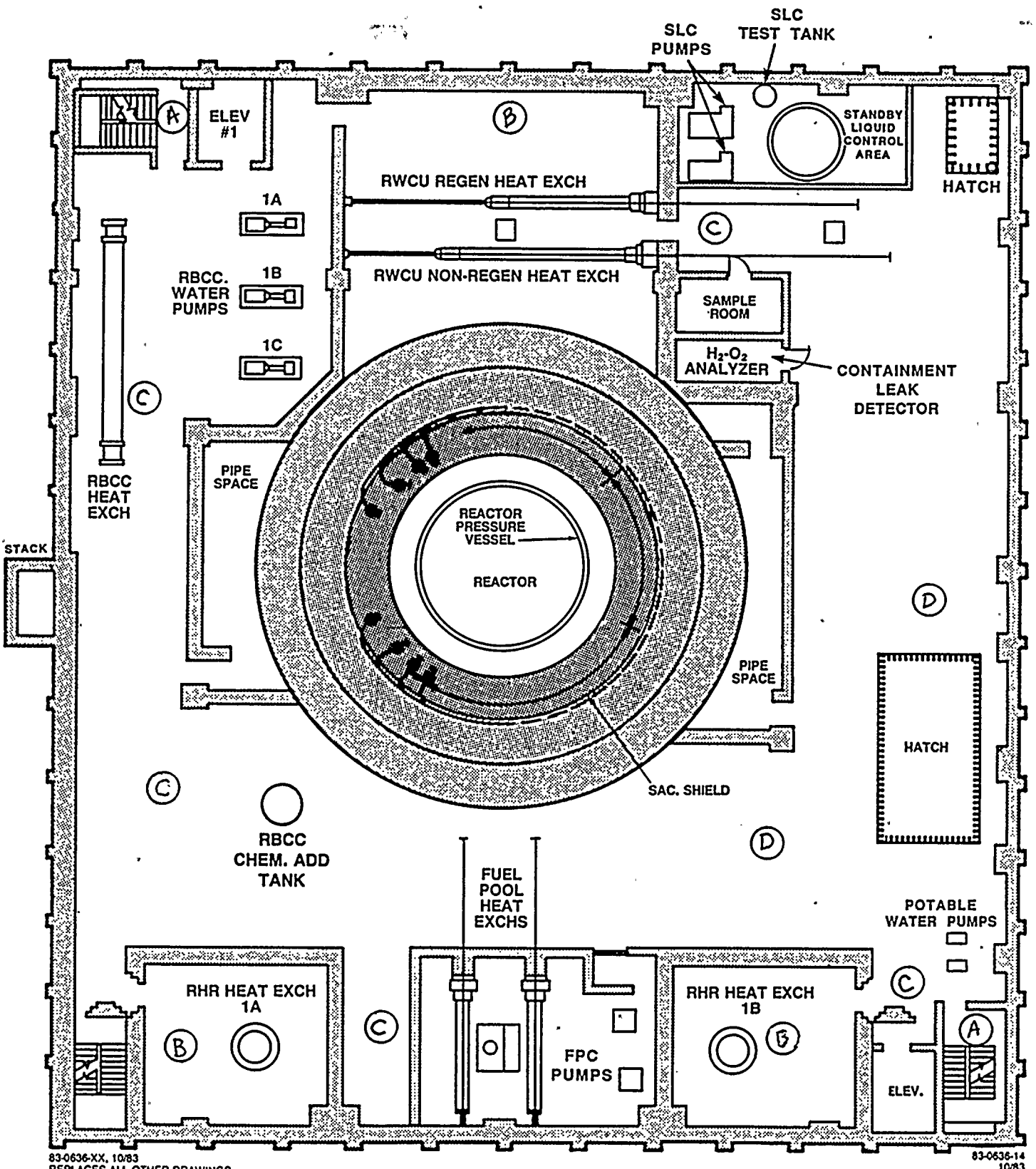
ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

Direct Readings
Reactor Building 522' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	D mr/hr	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr
8:00	2	2	10	7	100	0.02	100	0.02	100	0.02	100	0.02
8:15	2	2	10	7	100	0.02	100	0.02	100	0.02	100	0.02
8:30	2	2	10	7	100	0.02	100	0.02	100	0.02	100	0.02
8:45	2	2	10	7	100	0.02	100	0.02	100	0.02	100	0.02
9:00	47	428	436	478	102	0.02	296	0.1	312	0.1	345	0.1
9:15	44	401	409	448	105	0.02	888	0.2	937	0.2	1036	0.2
9:30	41	375	383	419	110	0.02	1776	0.4	1874	0.4	2072	0.4
9:45	39	351	359	393	116	0.02	2959	0.6	3124	0.6	3453	0.7
10:00	36	329	337	369	125	0.02	4439	0.9	4686	0.9	5179	1.0
10:15	34	309	317	347	133	0.03	5883	1.2	6210	1.2	6863	1.4
10:30	32	291	299	326	141	0.03	7293	1.5	7698	1.5	8508	1.7
10:45	31	274	282	308	148	0.03	8672	1.7	9153	1.8	10117	2.0
11:00	29	259	267	291	156	0.03	10022	2.0	10578	2.1	11692	2.3
11:15	28	245	253	275	163	0.03	11345	2.3	11975	2.4	13235	2.6
11:30	26	231	239	261	170	0.03	12643	2.5	13345	2.7	14750	2.9
11:45	25	219	227	247	177	0.04	13918	2.8	14691	2.9	16237	3.2
12:00	24	208	216	235	185	0.04	15307	3.1	16157	3.2	17858	3.6
12:05	27	238	246	268	193	0.04	16728	3.3	17658	3.5	19516	3.9
12:10	34	302	310	339	201	0.04	18218	3.6	19230	3.8	21254	4.3
12:15	37	333	341	373	211	0.04	20010	4.0	21121	4.2	23345	4.7
12:20	42	382	390	427	222	0.04	22014	4.4	23237	4.6	25683	5.1
12:25	48	436	444	486	235	0.05	24242	4.8	25589	5.1	28282	5.7
12:30	53	482	490	538	249	0.05	26787	5.4	28275	5.7	31251	6.3
12:45	69	642	650	714	269	0.05	30450	6.1	32142	6.4	35525	7.1
13:00	91	849	857	943	299	0.06	35839	7.2	37830	7.6	41812	8.4
13:15	122	1141	1149	1266	338	0.07	42810	8.6	45188	9.0	49945	10.0
13:30	164	1540	1548	1707	389	0.08	51944	10.4	54830	11.0	60602	12.1
13:45	229	2157	2165	2389	458	0.09	64421	12.9	67999	13.6	75157	15.0
14:00	402	3798	3806	4202	451	0.09	63132	12.6	66639	13.3	73654	14.7
14:15	384	3634	3642	4021	444	0.09	61844	12.4	65280	13.1	72151	14.4
14:30	368	3479	3487	3850	436	0.09	60555	12.1	63920	12.8	70648	14.1



83-0636-XX, 10/83
REPLACES ALL OTHER DRAWINGS

83-0636-14
10/83

REACTOR BLDG. ELEV. 548'

870676.62

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

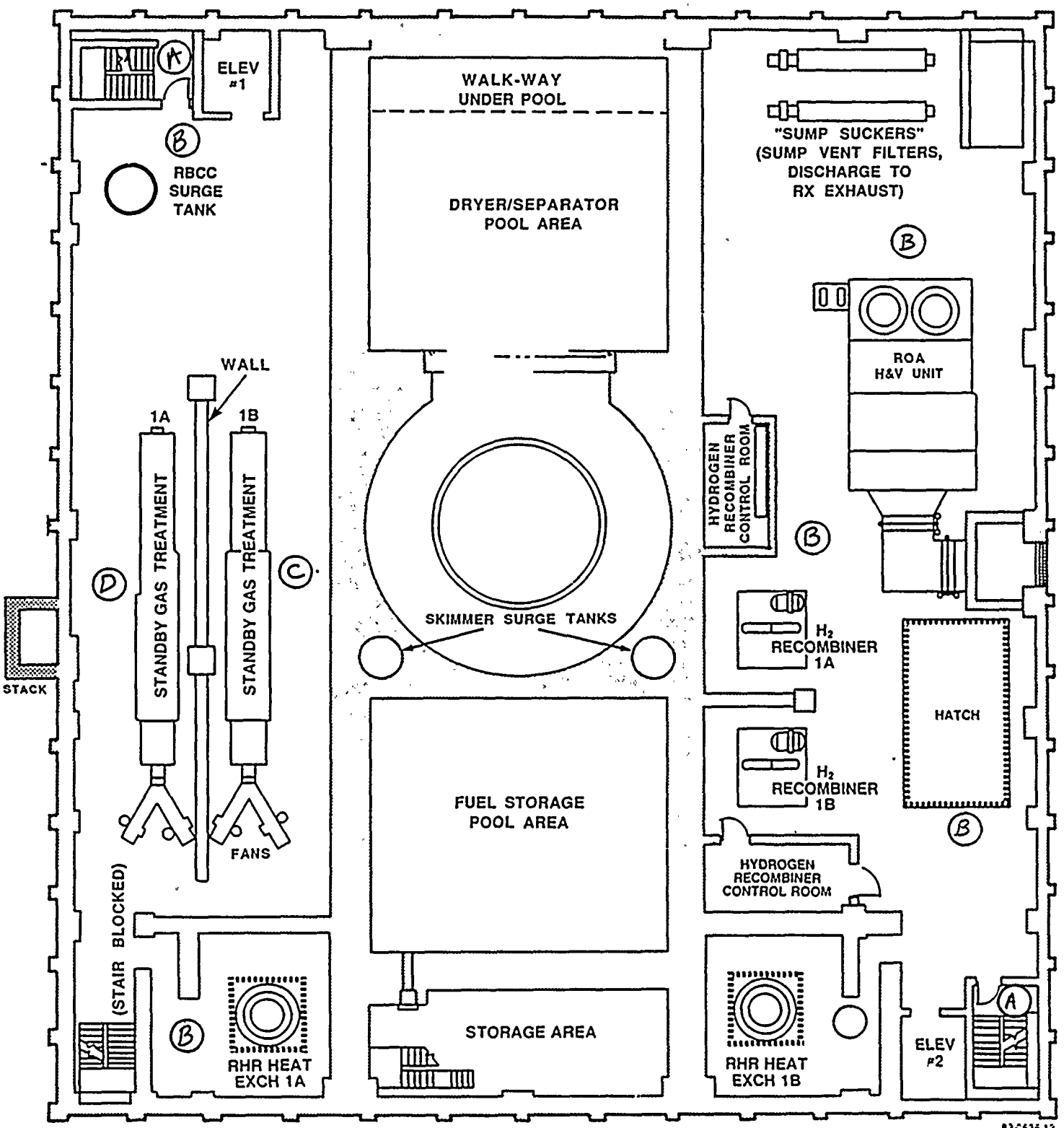
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4f	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings Reactor Building 548' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	D mr/hr	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr
8:00	0.1	2	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02
8:15	0.1	2	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02
8:30	0.1	2	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02
8:45	0.1	2	10	0.5	100	0.02	100	0.02	100	0.02	100	0.02
9:00	35	338	350	497	102	0.02	312	0.1	362	0.1	345	0.1
9:15	32	317	329	466	105	0.02	937	0.2	1085	0.2	1036	0.2
9:30	30	297	308	436	110	0.02	1874	0.4	2170	0.4	2072	0.4
9:45	28	279	289	408	116	0.02	3124	0.6	3617	0.7	3453	0.7
10:00	27	262	272	383	125	0.02	4686	0.9	5426	1.1	5179	1.0
10:15	25	247	257	360	133	0.03	6210	1.2	7190	1.4	6863	1.4
10:30	24	232	242	338	141	0.03	7698	1.5	8913	1.8	8508	1.7
10:45	22	219	229	319	148	0.03	9153	1.8	10599	2.1	10117	2.0
11:00	21	208	217	301	156	0.03	10578	2.1	12249	2.4	11692	2.3
11:15	20	197	206	285	163	0.03	11975	2.4	13866	2.8	13235	2.6
11:30	19	186	195	269	170	0.03	13345	2.7	15452	3.1	14750	2.9
11:45	18	177	186	255	177	0.04	14691	2.9	17010	3.4	16237	3.2
12:00	17	168	177	242	185	0.04	16157	3.2	18708	3.7	17858	3.6
12:05	20	192	201	277	193	0.04	17658	3.5	20446	4.1	19516	3.9
12:10	25	241	251	351	201	0.04	19230	3.8	22266	4.5	21254	4.3
12:15	27	264	275	387	211	0.04	21121	4.2	24456	4.9	23345	4.7
12:20	31	302	313	443	222	0.04	23237	4.6	26906	5.4	25683	5.1
12:25	35	344	356	506	235	0.05	25589	5.1	29629	5.9	28282	5.7
12:30	39	380	393	560	249	0.05	28275	5.7	32739	6.5	31251	6.3
12:45	51	502	518	744	269	0.05	32142	6.4	37217	7.4	35525	7.1
13:00	68	662	681	985	299	0.06	37830	7.6	43803	8.8	41812	8.4
13:15	91	887	911	1323	338	0.07	45188	9.0	52323	10.5	49945	10.0
13:30	122	1195	1224	1785	389	0.08	54830	11.0	63487	12.7	60602	12.1
13:45	170	1670	1709	2499	458	0.09	67999	13.6	78736	15.7	75157	15.0
14:00	299	2934	2999	4399	451	0.09	66639	13.3	77162	15.4	73654	14.7
14:15	287	2808	2870	4209	444	0.09	65280	13.1	75587	15.1	72151	14.4
14:30	274	2689	2749	4030	436	0.09	63920	12.8	74012	14.8	70648	14.1



83-0636-XX 10/83
REPLACES ALL OTHER DRAWINGS

REACTOR BLDG. ELEV. 572'

83-0636-13

870676.72

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

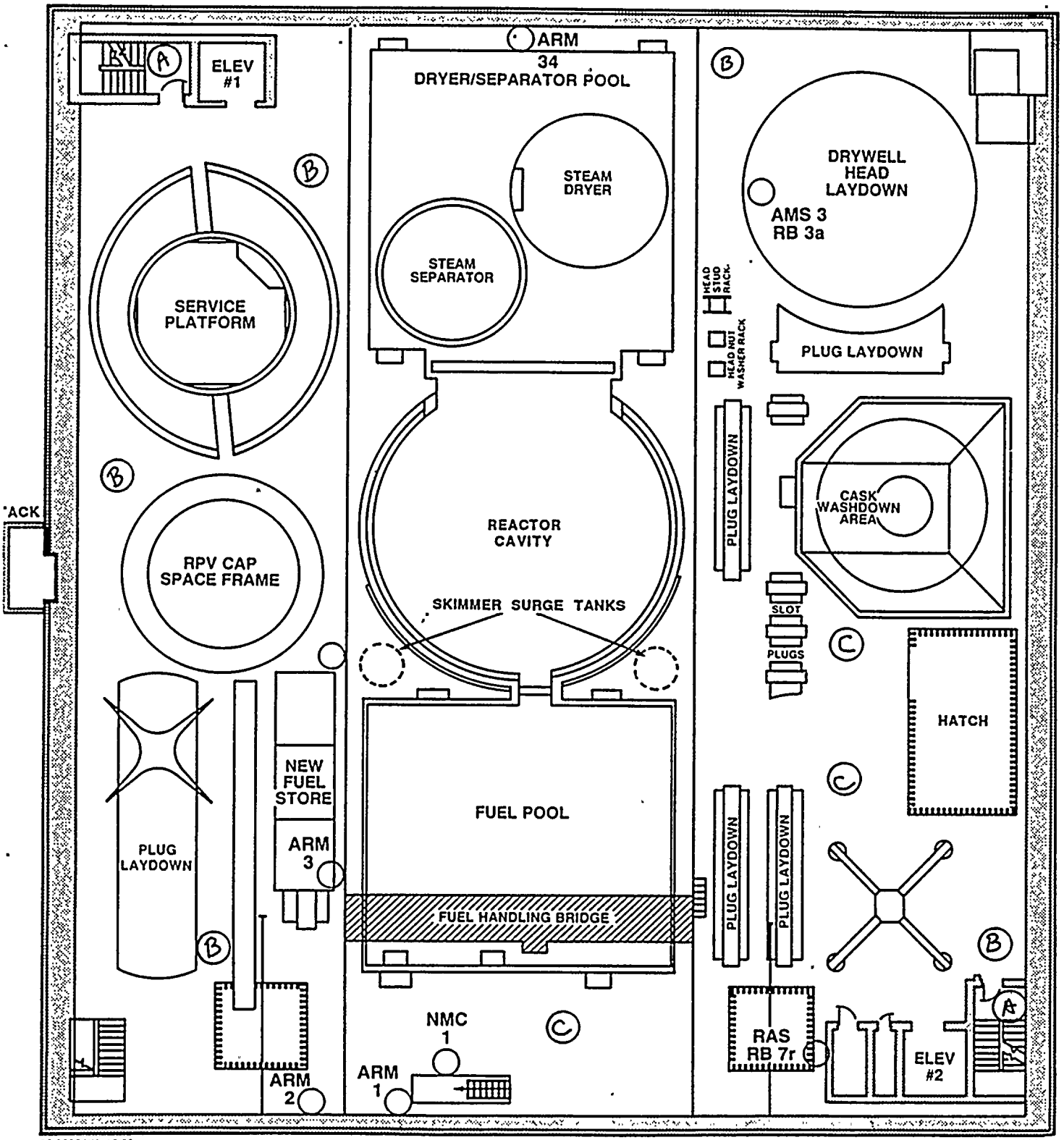
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4g	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings Reactor Building 572' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	D mr/hr	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr	D cpm	D mrad/hr
8:00	0.1	5	10	3	100	0.02	100	0.02	100	0.02	100	0.02
8:15	0.1	5	10	3	100	0.02	100	0.02	100	0.02	100	0.02
8:30	0.1	5	10	3	100	0.02	100	0.02	100	0.02	100	0.02
8:45	0.1	5	10	3	100	0.02	100	0.02	100	0.02	100	0.02
9:00	69	350	350	446	102	0.02	322	0.1	263	0.1	362	0.1
9:15	65	329	329	624	105	0.02	967	0.2	789	0.2	1085	0.2
9:30	61	308	308	775	110	0.02	1934	0.4	1578	0.3	2170	0.4
9:45	57	289	289	904	116	0.02	3223	0.6	2631	0.5	3617	0.7
10:00	53	272	272	1015	125	0.02	4834	1.0	3946	0.8	5426	1.1
10:15	50	257	1203	1057	133	0.03	6406	1.3	5229	1.0	7190	1.4
10:30	47	242	1353	1141	141	0.03	7941	1.6	6483	1.3	8913	1.8
10:45	45	229	1482	1167	148	0.03	9443	1.9	7708	1.5	10599	2.1
11:00	42	217	1594	1230	156	0.03	10912	2.2	8908	1.8	12249	2.4
11:15	40	206	1616	1243	163	0.03	12353	2.5	10084	2.0	13866	2.8
11:30	38	195	2298	1291	170	0.03	13767	2.8	11238	2.2	15452	3.1
11:45	36	186	3666	1295	177	0.04	15155	3.0	12371	2.5	17010	3.4
12:00	34	177	4902	1540	185	0.04	16667	3.3	13606	2.7	18708	3.7
12:05	39	201	5134	2132	193	0.04	18215	3.6	14870	3.0	20446	4.1
12:10	49	251	6556	3441	201	0.04	19837	4.0	16193	3.2	22266	4.5
12:15	54	275	7241	5387	211	0.04	21788	4.4	17787	3.6	24456	4.9
12:20	62	313	8331	7111	222	0.04	23971	4.8	19568	3.9	26906	5.4
12:25	70	356	9532	9182	235	0.05	26397	5.3	21548	4.3	29629	5.9
12:30	78	393	12639	10745	249	0.05	29168	5.8	23810	4.8	32739	6.5
12:45	103	518	16713	14208	269	0.05	33157	6.6	27067	5.4	37217	7.4
13:00	135	681	22029	18726	299	0.06	39025	7.8	31857	6.4	43803	8.8
13:15	181	911	29514	25088	338	0.07	46615	9.3	38053	7.6	52323	10.5
13:30	244	1224	39739	33780	389	0.08	56562	11.3	46173	9.2	63487	12.7
13:45	341	1709	55531	47203	458	0.09	70147	14.0	57263	11.5	78736	15.7
14:00	599	2999	97562	82929	451	0.09	68744	13.7	56117	11.2	77162	15.4
14:15	573	2870	93363	79360	444	0.09	67341	13.5	54972	11.0	75587	15.1
14:30	549	2749	89406	75996	436	0.09	65938	13.2	53827	10.8	74012	14.8



83-0636-XX, 10/83
REPLACES ALL OTHER DRAWINGS

83-0636-1* 10/83

REACTOR BLDG. ELEV. 606'

870676.68

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

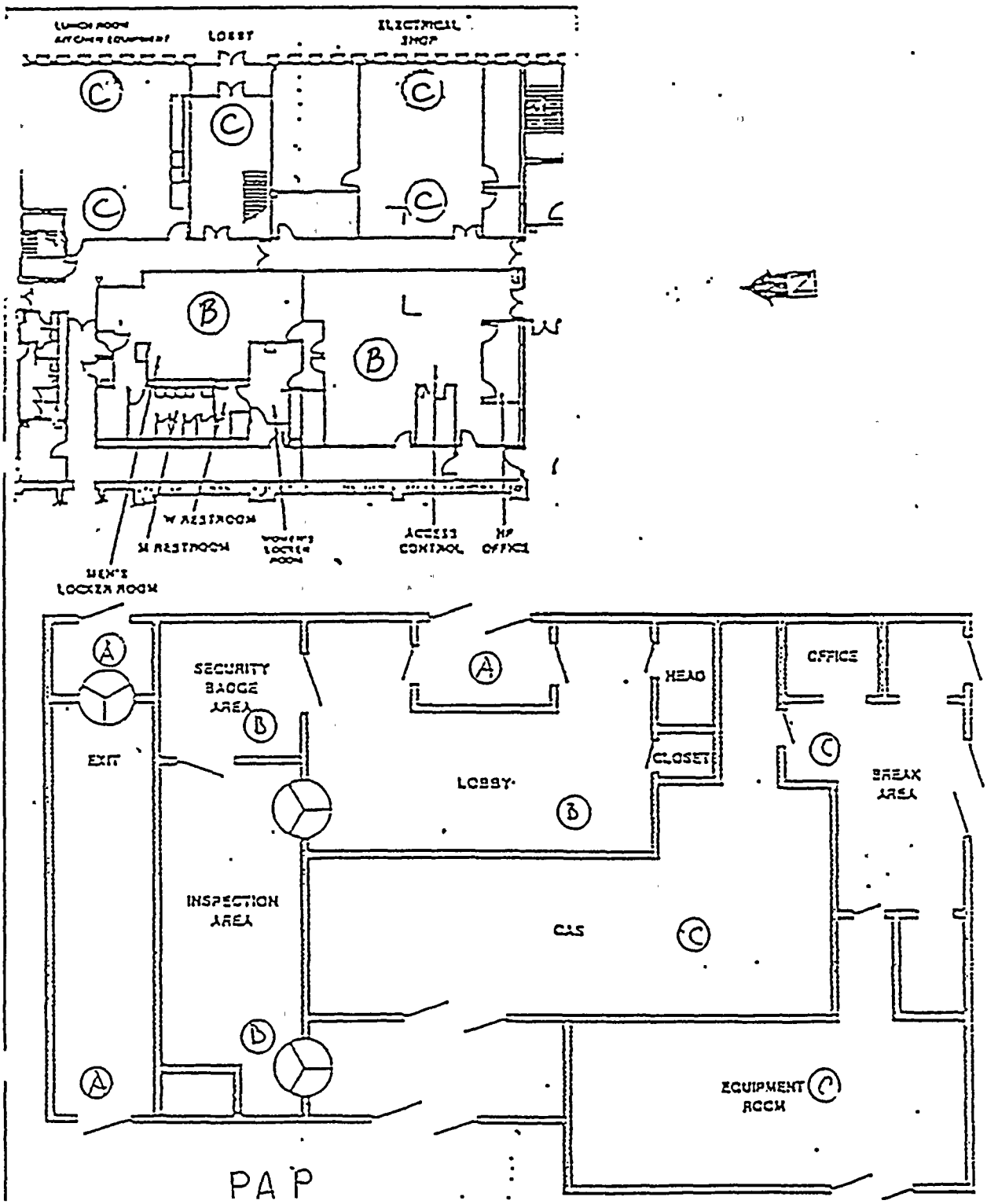
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4h	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings-- Reactor Building 606' Elev.

Reactor Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	WB Dose Rate (mr/hr) Area B (mr/hr)	WB Dose Rate (mr/hr) Area C mr/hr)	Contamination Level (cpm mrad/hr) Area A cpm	A mrad/hr	B cpm	B mrad/hr	C cpm	C mrad/hr
8:00	0.1	5	10	100	0.02	100	0.02	100	0.02
8:15	0.1	5	10	100	0.02	100	0.02	100	0.02
8:30	0.1	5	10	100	0.02	100	0.02	100	0.02
8:45	0.1	5	10	100	0.02	100	0.02	100	0.02
9:00	22	453	503	100	0.02	429	0.09	462	0.09
9:15	21	424	471	100	0.02	1086	0.2	1185	0.2
9:30	20	397	441	100	0.02	2073	0.4	2270	0.5
9:45	18	371	413	90	0.02	3388	0.7	3717	0.7
10:00	17	348	387	109	0.02	5032	1.0	5526	1.1
10:15	16	327	364	129	0.03	6636	1.3	7290	1.5
10:30	15	307	343	148	0.03	8203	1.6	9013	1.8
10:45	14	289	323	167	0.03	9735	1.9	10699	2.1
11:00	13	273	305	187	0.04	11235	2.2	12349	2.5
11:15	13	258	288	206	0.04	12705	2.5	13966	2.8
11:30	12	244	273	225	0.05	14147	2.8	15552	3.1
11:45	11	231	259	293	0.06	15564	3.1	17110	3.4
12:00	11	219	246	313	0.06	17108	3.4	18808	3.8
12:05	12	252	281	332	0.07	18687	3.7	20546	4.1
12:10	16	320	357	353	0.07	20342	4.1	22366	4.5
12:15	17	353	393	378	0.08	22333	4.5	24556	4.9
12:20	20	406	451	406	0.08	24560	4.9	27006	5.4
12:25	23	463	514	437	0.09	27036	5.4	29729	5.9
12:30	25	514	570	472	0.09	29863	6.0	32839	6.6
12:45	34	685	758	523	0.10	33933	6.8	37317	7.5
13:00	45	907	1003	598	0.12	39921	8.0	43903	8.8
13:15	61	1221	1348	695	0.14	47667	9.5	52423	10.5
13:30	82	1650	1819	821	0.16	57816	11.6	63587	12.7
13:45	115	2311	2547	995	0.20	71678	14.3	78836	15.8
14:00	203	4073	4484	977	0.20	70247	14.0	77262	15.5
14:15	195	3897	4291	959	0.19	68815	13.8	75687	15.1
14:30	186	3732	4109	941	0.19	67384	13.5	74112	14.8


LUNCH ROOM
KITCHEN EQUIPMENT
LOBBY
ELECTRICAL SHOP
W RESTROOM
M RESTROOM
WOMEN'S LOCKER ROOM
ACCESS CONTROL
HP OFFICE
MEN'S LOCKER ROOM
SECURITY BADGE AREA
EXIT
LOBBY
HEAD
CLOSET
OFFICE
BREAK AREA
INSPECTION AREA
CAS
EQUIPMENT ROOM
PAP

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

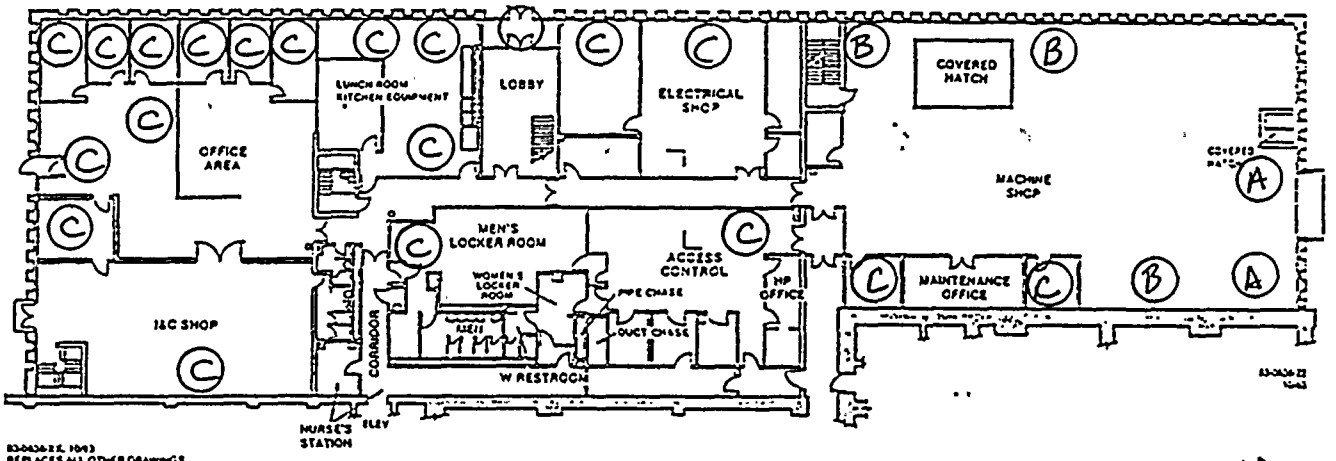
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4i	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

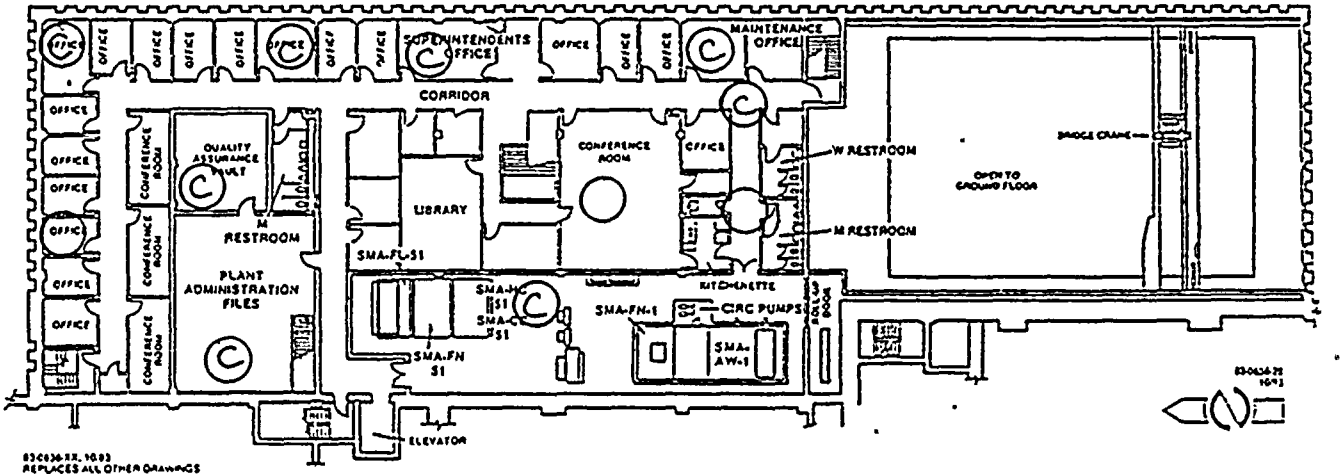
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings-- OSC and Primary Access Point (PAP)

OSC and Primary Access Point Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	Contamination Level (cpm mrad/hr) Area A cpm	A rad/hr	B cpm	B mrad/hr	C cpm	C rad/hr
8:00	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
8:15	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
8:30	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
8:45	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
9:00	40.7	4.2	1.1	100	0.02	100	0.02	100	0.02
9:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
9:30	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
9:45	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:00	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:30	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:45	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:00	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:30	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:45	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:00	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:05	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:10	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:20	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:25	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:30	0.3	0.1	0.1	100	0.02	100	0.02	100	0.02
12:45	0.4	0.1	0.1	100	0.02	100	0.02	100	0.02
13:00	0.5	0.1	0.1	100	0.02	100	0.02	100	0.02
13:15	0.6	0.2	0.1	100	0.02	100	0.02	100	0.02
13:30	0.8	0.2	0.1	100	0.02	100	0.02	100	0.02
13:45	1.1	0.2	0.1	100	0.02	100	0.02	100	0.02
14:00	1.6	0.2	0.2	100	0.02	100	0.02	100	0.02
14:15	2.1	0.3	0.2	100	0.02	100	0.02	100	0.02
14:30	2.0	0.3	0.2	100	0.02	100	0.02	100	0.02



SERVICE BLDG. ELEV. 441'



SERVICE BLDG. ELEV. 456'

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.	PAGE
Exercise 91	____ of ____

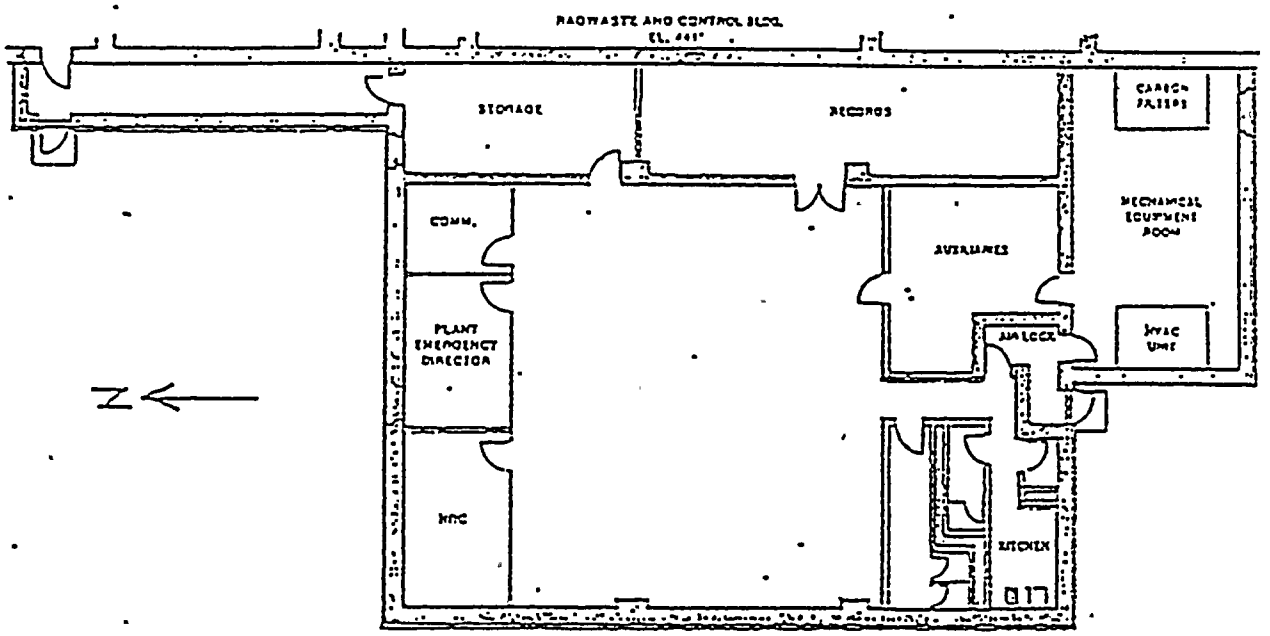
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4j	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings-- General Service Building 441' & 456'

General Service Building Dose Rates and Contamination Levels

Time	WB Dose Rate (mr/hr) Area A (mr/hr)	B mr/hr	C (mr/hr)	Contamination Level (cpm mrad/hr) Area A cpm	A rad/hr	B cpm	B mrad/hr	C cpm	C rad/hr
8:00	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
8:15	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
8:30	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
8:45	0.1	0.1	0.1	100	0.02	100	0.02	100	0.02
9:00	40.7	4.2	1.1	100	0.02	100	0.02	100	0.02
9:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
9:30	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
9:45	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:00	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:30	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
10:45	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:00	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:30	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
11:45	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:00	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:05	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:10	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:15	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:20	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:25	0.2	0.1	0.1	100	0.02	100	0.02	100	0.02
12:30	0.3	0.1	0.1	100	0.02	100	0.02	100	0.02
12:45	0.4	0.1	0.1	100	0.02	100	0.02	100	0.02
13:00	0.5	0.1	0.1	100	0.02	100	0.02	100	0.02
13:15	0.6	0.2	0.1	100	0.02	100	0.02	100	0.02
13:30	0.8	0.2	0.1	100	0.02	100	0.02	100	0.02
13:45	1.1	0.2	0.1	100	0.02	100	0.02	100	0.02
14:00	1.6	0.2	0.2	100	0.02	100	0.02	100	0.02
14:15	2.1	0.3	0.2	100	0.02	100	0.02	100	0.02
14:30	2.0	0.3	0.2	100	0.02	100	0.02	100	0.02


RADWASTE AND CONTROL BLDG.
EL. 441'
STORAGE
RECORDS
CARBON FILTERS
COMM.
AVENUE
MECHANICAL EQUIPMENT ROOM
PLANT EMERGENCY DIRECTOR
AIR LOCK
HVAC UNIT
N
HVAC
KITCHEN
817

TSC, 441' EL.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4k	CR (Simulator)

VALID FOR TIMES OF:								
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings--Technical Support Center & Air Sample Results

Technical Support Center Dose Rates and Contamination Levels

WB Dose Rate (mr/hr) Area

A	B	C

Contamination Level (cpm mrad/hr) Area

A	B	C

All Radiation Levels Are AS Found for All Times

All Contamination Levels Are As Found for All Times

Air Sample Results

The air sample concentrations for the TSC will be as found, as no activity is added by the accident.

NOTE: This data is for all areas of the Technical Support Center.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
41	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐ AM ☐ PM	TO	14:30 ☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Direct Readings-- All Areas of the Turbine Generator Building

Turbine Generator Building Dose Rates and Contamination Levels

WB Dose Rate (mr/hr)

Area A	Area B	Area C

Contamination Level (cpm mrad/hr)

Area A	Area B	Area C

All Radiation Levels Are AS Found

All Comtamination Levels Are As Found

NOTE: This data is for all areas of the Turbine Generator Building not covered by SPECIFIC data sheets!!

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

CALL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4m	CR (Simulator), OSC with Field Teams

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

In-Plant Area Dose Rates-
Air Sample Results-Reactor Building in DPM

Reading on cartridge @1 in.

Time	Dpm on Filter fo 100 ft^3 Sample	Dpm on Filter fo 50 ft^3 Sample	Dpm on Filter fo 25ft^3 Sample	mR/hr on Filter fo 100 ft^3 Sample	mR/hr on Filter fo 50 ft^3 Sample	mR/hr on Filter for 25ft^3 Sample	Dpm on Cartridge 100 ft^3 Sample	Dpm on Cartridge 50 ft^3 Sample	Dpm on Cartridge 25ft^3 Sample	mR/hr on Cartridg 100 ft^3 Sample	mR/hr on Cartridge 50 ft^3 Sample	mR/hr on Cartridge 25ft^3 Sample
8:00	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:15	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:30	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:45	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
9:00	1.30E+09	6.48E+08	3.24E+08	273	136	68	2.46E+09	1.23E+09	6.16E+08	5178	2589	1295
9:15	1.15E+09	5.77E+08	2.89E+08	243	121	61	2.19E+09	1.10E+09	5.48E+08	4608	2304	1152
9:30	1.01E+09	5.07E+08	2.53E+08	213	106	53	1.93E+09	9.63E+08	4.81E+08	4046	2023	1012
9:45	8.80E+08	4.40E+08	2.20E+08	185	93	46	1.67E+09	8.36E+08	4.18E+08	3515	1758	879
10:00	7.54E+08	3.77E+08	1.89E+08	159	79	40	1.43E+09	7.17E+08	3.58E+08	3012	1506	753
10:15	6.95E+08	3.48E+08	1.74E+08	146	73	37	1.32E+09	6.60E+08	3.30E+08	2776	1388	694
10:30	6.41E+08	3.21E+08	1.60E+08	135	67	34	1.22E+09	6.09E+08	3.05E+08	2560	1280	640
10:45	5.89E+08	2.94E+08	1.47E+08	124	62	31	1.12E+09	5.59E+08	2.80E+08	2351	1176	588
11:00	5.41E+08	2.71E+08	1.35E+08	114	57	28	1.03E+09	5.14E+08	2.57E+08	2160	1080	540
11:15	5.00E+08	2.50E+08	1.25E+08	105	53	26	9.50E+08	4.75E+08	2.37E+08	1996	998	499
11:30	4.62E+08	2.31E+08	1.15E+08	97	49	24	8.78E+08	4.39E+08	2.19E+08	1844	922	461
11:45	4.27E+08	2.13E+08	1.07E+08	90	45	22	8.11E+08	4.06E+08	2.03E+08	1705	852	426
12:00	3.74E+08	1.87E+08	9.35E+07	79	39	20	7.10E+08	3.55E+08	1.78E+08	1493	746	373
12:05	5.17E+08	2.59E+08	1.29E+08	109	54	27	9.83E+08	4.92E+08	2.46E+08	2066	1033	517
12:10	8.17E+08	4.09E+08	2.04E+08	172	86	43	1.55E+09	7.77E+08	3.88E+08	3264	1632	816
12:15	9.16E+08	4.58E+08	2.29E+08	193	96	48	1.74E+09	8.70E+08	4.35E+08	3658	1829	915
12:20	1.12E+09	5.60E+08	2.80E+08	235	118	59	2.13E+09	1.06E+09	5.32E+08	4469	2235	1117
12:25	1.35E+09	6.73E+08	3.36E+08	283	141	71	2.56E+09	1.28E+09	6.39E+08	5371	2685	1343
12:30	1.52E+09	7.60E+08	3.80E+08	320	160	80	2.89E+09	1.44E+09	7.22E+08	6073	3036	1518
12:45	2.11E+09	1.05E+09	5.27E+08	443	222	111	4.01E+09	2.00E+09	1.00E+09	8421	4211	2105
13:00	2.83E+09	1.41E+09	7.07E+08	594	297	149	5.37E+09	2.69E+09	1.34E+09	11291	5646	2823
13:15	3.99E+09	2.00E+09	9.98E+08	839	420	210	7.59E+09	3.79E+09	1.90E+09	15948	7974	3987
13:30	5.59E+09	2.79E+09	1.40E+09	1174	587	294	1.06E+10	5.31E+09	2.65E+09	22315	11158	5579
13:45	8.05E+09	4.03E+09	2.01E+09	1692	846	423	1.53E+10	7.65E+09	3.82E+09	32147	16073	8037
14:00	1.62E+10	8.12E+09	4.06E+09	3415	1707	854	3.09E+10	1.54E+10	7.72E+09	64883	32441	16221
14:15	1.56E+10	7.78E+09	3.89E+09	3268	1634	817	2.95E+10	1.48E+10	7.39E+09	62095	31047	15524
14:30	1.49E+10	7.45E+09	3.72E+09	3130	1565	782	2.83E+10	1.41E+10	7.07E+09	59466	29733	14867

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4n	CR (Simulator), OSC with Field Teams

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

In-Plant Area Dose Rates-
Air Sample Results-RX Building Concentration(uCi/cc)

	DPM & mR/hr on Cartridge & filter from Iodines				DPM on Cartridge Due to N. G.		Total N. G. Beta Emitters	ReactorBuilding Radioiodines Concentration Actual at Times Given Reflecting Plateout				
	Dpm on Filter fo 10 ft^3	mR/hr on Filter f 10 ft^3	Dpm on Cartridge 10 ft^3	mR/hr on Cartridge 10 ft^3	Dpm on Cartridge 10 ft^3	mR/hr on Cartridge 10 ft^3		I-131	I-132	I-133	I-134	I-135
Time	Sample	Sample	Sample	Sample	Sample	Sample	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc
8:00	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:15	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:30	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:45	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
9:00	1.30E+08	27	2.46E+09	518	1.44E+09	288	3.28E-02	2.77E-03	1.34E-03	1.01E-05	0.0	0.0
9:15	1.15E+08	24	2.19E+09	461	1.38E+09	276	3.13E-02	2.53E-03	1.13E-03	9.15E-06	0.0	0.0
9:30	1.01E+08	21	1.93E+09	405	1.31E+09	263	2.98E-02	2.29E-03	9.28E-04	8.20E-06	0.0	0.0
9:45	8.80E+07	19	1.67E+09	352	1.25E+09	251	2.85E-02	2.05E-03	7.41E-04	7.27E-06	0.0	0.0
10:00	7.54E+07	16	1.43E+09	301	1.20E+09	239	2.72E-02	1.83E-03	5.68E-04	6.38E-06	0.0	0.0
10:15	6.95E+07	15	1.32E+09	278	1.14E+09	229	2.60E-02	1.72E-03	4.84E-04	5.96E-06	0.0	0.0
10:30	6.41E+07	13	1.22E+09	256	1.10E+09	219	2.49E-02	1.62E-03	4.10E-04	5.57E-06	0.0	0.0
10:45	5.89E+07	12	1.12E+09	235	1.05E+09	210	2.38E-02	1.53E-03	3.36E-04	5.20E-06	0.0	0.0
11:00	5.41E+07	11	1.03E+09	216	1.01E+09	201	2.29E-02	1.45E-03	2.71E-04	4.84E-06	0.0	0.0
11:15	5.00E+07	11	9.50E+08	200	9.65E+08	193	2.19E-02	1.36E-03	2.21E-04	4.52E-06	0.0	0.0
11:30	4.62E+07	10	8.78E+08	184	9.26E+08	185	2.11E-02	1.29E-03	1.78E-04	4.22E-06	0.0	0.0
11:45	4.27E+07	9	8.11E+08	170	8.90E+08	178	2.02E-02	1.22E-03	1.39E-04	3.93E-06	0.0	0.0
12:00	3.74E+07	8	7.10E+08	149	8.56E+08	171	1.94E-02	1.08E-03	1.07E-04	3.46E-06	0.0	0.0
12:05	5.17E+07	11	9.83E+08	207	1.05E+09	209	2.38E-2	1.47E-03	1.71E-04	4.66E-06	0.0	0.0
12:10	8.17E+07	17	1.55E+09	326	1.44E+09	288	3.27E-2	2.29E-03	3.08E-04	7.18E-06	0.0	0.0
12:15	9.16E+07	19	1.74E+09	366	1.64E+09	328	3.73E-02	2.56E-03	3.46E-04	7.99E-06	0.0	0.0
12:20	1.12E+08	24	2.13E+09	447	1.95E+09	390	4.43E-2	3.12E-03	4.30E-04	9.70E-06	0.0	0.0
12:25	1.35E+08	28	2.56E+09	537	2.30E+09	459	5.22E-2	3.75E-03	5.20E-04	1.16E-05	0.0	0.0
12:30	1.52E+08	32	2.89E+09	607	2.60E+09	520	5.91E-02	4.24E-03	5.85E-04	1.31E-05	0.0	0.0
12:45	2.11E+08	44	4.01E+09	842	3.64E+09	729	8.28E-02	5.91E-03	7.86E-04	1.80E-05	0.0	0.0
13:00	2.83E+08	59	5.37E+09	1129	5.02E+09	1004	1.14E-01	7.96E-03	1.01E-03	2.41E-05	0.0	0.0
13:15	3.99E+08	84	7.59E+09	1595	6.96E+09	1393	1.58E-01	1.13E-02	1.37E-03	3.40E-05	0.0	0.0
13:30	5.59E+08	117	1.06E+10	2232	9.64E+09	1929	2.19E-01	1.59E-02	1.82E-03	4.76E-05	0.0	0.0
13:45	8.05E+08	169	1.53E+10	3215	1.38E+10	2759	3.13E-01	2.31E-02	2.49E-03	6.84E-05	0.0	0.0
14:00	1.62E+09	341	3.09E+10	6488	2.40E+10	4791	5.63E-01	4.68E-02	4.74E-03	1.38E-04	0.0	0.0
14:15	1.56E+09	327	2.95E+10	6209	2.32E+10	4631	5.44E-01	4.52E-02	4.16E-03	1.32E-04	0.0	0.0
14:30	1.49E+09	313	2.83E+10	5947	2.32E+10	4631	5.26E-01	4.36E-02	3.64E-03	1.26E-04	0.0	0.0

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 4o | RESPONSIBLE CONTROLLER (LOCATION) OSC with Re-entryTeams, Plant Lab

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
In Plant Area Dose Rates-Reactor Building
Air Sample Concentrations-SR-37
Reactor Building-606' Elev.

		Reactor Building Radioiodine Concentration Actual at Times Given Reflecting Plateout					Sample Flow REA SR-37 CFM	Curies Iodine on Filter	Curies(C) Iodine on Cartridge	DPM on Filter	Cartridge R/hr @ 1 ft	Cartridge R/hr at 1 inch	Filter Rad/hr @ 1 inch
Time	Min.	I131 uCi/cc	I132 uCi/cc	I133 uCi/cc	I134 uCi/cc	I135 uCi/cc							
8:00		Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	2.3	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:15		Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	2.3	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:30		Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	2.3	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:45		Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	2.3	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
9:00		2.77E-03	1.34E-03	1.01E-05	Bkgd	Bkgd	2.3	0.00E+00	0.00E+00	0.0E+00	0.000	0	0
9:15	15	2.53E-03	1.13E-03	9.15E-06	Bkgd	Bkgd	2.3	2.02E-04	3.83E-03	4.5E+08	0.015	2	9
9:30	30	2.29E-03	9.28E-04	8.20E-06	Bkgd	Bkgd	2.3	3.81E-04	7.24E-03	8.5E+08	0.029	4	17
9:45	45	2.05E-03	7.41E-04	7.27E-06	Bkgd	Bkgd	2.3	5.38E-04	1.02E-02	1.2E+09	0.041	6	24
10:00	60	1.83E-03	5.68E-04	6.38E-06	Bkgd	Bkgd	2.3	6.75E-04	1.28E-02	1.5E+09	0.051	7	30
10:15	75	1.72E-03	4.84E-04	5.96E-06	Bkgd	Bkgd	2.3	7.92E-04	1.51E-02	1.8E+09	0.060	9	35
10:30	90	1.62E-03	4.10E-04	5.57E-06	Bkgd	Bkgd	2.3	9.00E-04	1.71E-02	2.0E+09	0.068	10	40
10:45	105	1.53E-03	3.36E-04	5.20E-06	Bkgd	Bkgd	2.3	1.00E-03	1.90E-02	2.2E+09	0.076	11	44
11:00	120	1.45E-03	2.71E-04	4.84E-06	Bkgd	Bkgd	2.3	1.09E-03	2.07E-02	2.4E+09	0.083	12	48
11:15	135	1.36E-03	2.21E-04	4.52E-06	Bkgd	Bkgd	2.3	1.18E-03	2.23E-02	2.6E+09	0.089	13	52
11:30	150	1.29E-03	1.78E-04	4.22E-06	Bkgd	Bkgd	2.3	1.25E-03	2.38E-02	2.8E+09	0.095	14	56
11:45	165	1.22E-03	1.39E-04	3.93E-06	Bkgd	Bkgd	2.3	1.32E-03	2.52E-02	2.9E+09	0.100	14	59
12:00	180	1.08E-03	1.07E-04	3.46E-06	Bkgd	Bkgd	2.3	1.39E-03	2.64E-02	3.1E+09	0.105	15	62
12:05	185	1.47E-03	1.71E-04	4.66E-06	Bkgd	Bkgd	2.3	1.41E-03	2.68E-02	3.1E+09	0.107	15	63
12:10	190	2.29E-03	3.08E-04	7.18E-06	Bkgd	Bkgd	2.3	1.44E-03	2.73E-02	3.2E+09	0.109	16	64
12:15	195	2.56E-03	3.46E-04	7.99E-06	Bkgd	Bkgd	2.3	1.48E-03	2.81E-02	3.3E+09	0.112	16	66
12:20	200	3.12E-03	4.30E-04	9.70E-06	Bkgd	Bkgd	2.3	1.53E-03	2.90E-02	3.4E+09	0.116	17	68
12:25	205	3.75E-03	5.20E-04	1.16E-05	Bkgd	Bkgd	2.3	1.59E-03	3.01E-02	3.5E+09	0.120	17	70
12:30	210	4.24E-03	5.85E-04	1.31E-05	Bkgd	Bkgd	2.3	1.65E-03	3.14E-02	3.7E+09	0.125	18	73
12:45	225	5.91E-03	7.86E-04	1.80E-05	Bkgd	Bkgd	2.3	1.89E-03	3.59E-02	4.2E+09	0.143	21	84
13:00	240	7.96E-03	1.01E-03	2.41E-05	Bkgd	Bkgd	2.3	2.22E-03	4.22E-02	4.9E+09	0.168	24	99
13:15	255	1.13E-02	1.37E-03	3.40E-05	Bkgd	Bkgd	2.3	2.66E-03	5.05E-02	5.9E+09	0.202	29	118
13:30	270	1.59E-02	1.82E-03	4.76E-05	Bkgd	Bkgd	2.3	3.28E-03	6.23E-02	7.3E+09	0.249	36	146
13:45	285	2.31E-02	2.49E-03	6.84E-05	Bkgd	Bkgd	2.3	4.15E-03	7.88E-02	9.2E+09	0.314	45	184
14:00	300	4.68E-02	4.74E-03	1.38E-04	Bkgd	Bkgd	2.3	5.40E-03	1.03E-01	1.2E+10	0.409	59	240
14:15	315	4.52E-02	4.16E-03	1.32E-04	Bkgd	Bkgd	2.3	7.92E-03	1.51E-01	1.8E+10	0.601	86	352
14:30	330	4.36E-02	3.64E-03	1.26E-04	Bkgd	Bkgd	2.3	1.03E-02	1.96E-01	2.3E+10	0.784	113	459

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
4p	CR (Simulator), OSC with RentryTeams

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

In Plant Area Dose Rates-
Air Sample Concentrations-SR-48
Reactor building/(TGB Roof)

Time	Min.	Flow (F Sample Volume SCFH	Time (T) Sample Flow Duration Hours	Dose (D) Reading mR/hr at 1 ft	Curies(C) Curies(C) Iodine on Cartridge	Volume (V Total cc	Release (A) Activity Iodine uCi/cc	Reactor Building Radioiodine Concentration Actual at Times Given Reflecting Plateout I131 uCi/cc	I132 uCi/cc	I133 uCi/cc	I134 uCi/cc	I135 uCi/cc
8:00		3.3	0.00	0.0	0.0	0.0	0.0	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:15		3.3	0.00	0.0	0.0	0.0	0.0	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:30		3.3	0.00	0.0	0.0	0.0	0.0	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
8:45		3.3	0.00	0.0	0.0	0.0	0.0	Bkgd	Bkgd	Bkgd	Bkgd	Bkgd
9:00		3.3	0.00	0.0	0.0	0.0	4.13E-03	2.77E-03	1.34E-03	1.01E-05	0.00E+00	0.00E+00
9:15	15	3.3	0.25	0.0	9.64E-05	23362	1.09E-05	1.65E-06	1.65E-06	3.34E-06	1.42E-06	2.87E-06
9:30	30	3.3	0.50	0.0	9.69E-05	46723	4.20E-05	6.62E-06	6.16E-06	1.33E-05	4.69E-06	1.12E-05
9:45	45	3.3	0.75	0.0	9.98E-05	70085	1.26E-04	2.06E-05	1.78E-05	4.12E-05	1.20E-05	3.41E-05
10:00	60	3.3	1.00	0.0	1.12E-04	93446	2.40E-03	1.83E-03	5.68E-04	6.38E-06	0.00E+00	0.00E+00
10:15	75	3.3	1.25	0.22	3.92E-04	116808	2.21E-03	1.72E-03	4.84E-04	5.96E-06	0.00E+00	0.00E+00
10:30	90	3.3	1.50	0.40	7.02E-04	140169	2.04E-03	1.62E-03	4.10E-04	5.57E-06	0.00E+00	0.00E+00
10:45	105	3.3	1.75	0.59	1.04E-03	163531	1.87E-03	1.53E-03	3.36E-04	5.20E-06	0.00E+00	0.00E+00
11:00	120	3.3	2.00	0.79	1.39E-03	186892	1.72E-03	1.45E-03	2.71E-04	4.84E-06	0.00E+00	0.00E+00
11:15	135	3.3	2.25	1.00	1.75E-03	210254	1.59E-03	1.36E-03	2.21E-04	4.52E-06	0.00E+00	0.00E+00
11:30	150	3.3	2.50	1.21	2.12E-03	233615	1.47E-03	1.29E-03	1.78E-04	4.22E-06	0.00E+00	0.00E+00
11:45	165	3.3	2.75	1.43	2.50E-03	256977	1.36E-03	1.22E-03	1.39E-04	3.93E-06	0.00E+00	0.00E+00
12:00	180	3.3	3.00	1.64	2.88E-03	280338	1.19E-03	1.08E-03	1.07E-04	3.46E-06	0.00E+00	0.00E+00
12:05	185	3.3	3.08	1.84	3.22E-03	288125	1.65E-03	1.47E-03	1.71E-04	4.66E-06	0.00E+00	0.00E+00
12:10	190	3.3	3.17	2.12	3.71E-03	295913	2.60E-03	2.29E-03	3.08E-04	7.18E-06	0.00E+00	0.00E+00
12:15	195	3.3	3.25	2.57	4.50E-03	303700	2.91E-03	2.56E-03	3.46E-04	7.99E-06	0.00E+00	0.00E+00
12:20	200	3.3	3.33	3.09	5.40E-03	311487	3.56E-03	3.12E-03	4.30E-04	9.70E-06	0.00E+00	0.00E+00
12:25	205	3.3	3.42	3.74	6.54E-03	319274	4.28E-03	3.75E-03	5.20E-04	1.16E-05	0.00E+00	0.00E+00
12:30	210	3.3	3.50	4.54	7.94E-03	327061	4.84E-03	4.24E-03	5.85E-04	1.31E-05	0.00E+00	0.00E+00
12:45	225	3.3	3.75	5.51	9.64E-03	350423	6.71E-03	5.91E-03	7.86E-04	1.80E-05	0.00E+00	0.00E+00
13:00	240	3.3	4.00	6.94	1.21E-02	373784	9.00E-03	7.96E-03	1.01E-03	2.41E-05	0.00E+00	0.00E+00
13:15	255	3.3	4.25	8.98	1.57E-02	397146	1.27E-02	1.13E-02	1.37E-03	3.40E-05	0.00E+00	0.00E+00
13:30	270	3.3	4.50	12.03	2.11E-02	420507	1.78E-02	1.59E-02	1.82E-03	4.76E-05	0.00E+00	0.00E+00
13:45	285	3.3	4.75	16.54	2.89E-02	443869	2.56E-02	2.31E-02	2.49E-03	6.84E-05	0.00E+00	0.00E+00
14:00	300	3.3	5.00	23.38	4.09E-02	467231	5.17E-02	4.68E-02	4.74E-03	1.38E-04	0.00E+00	0.00E+00
14:15	315	3.3	5.25	37.87	6.63E-02	490592	4.95E-02	4.52E-02	4.16E-03	1.32E-04	0.00E+00	0.00E+00
14:30	330	3.3	5.50	52.40	9.17E-02	513954	4.74E-02	4.36E-02	3.64E-03	1.26E-04	0.00E+00	0.00E+00

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.		PAGE
Exercise 91		____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
5	ALL

VALID FOR TIMES OF:					
REAL TIME	0800 ☐AM ☐PM TO 1430 ☐AM ☐PM	DRILL TIME	0000 HOURS TO	0630	HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Dose Rates in Plant Vicinity Sky Shine

SHT NO.	*TITLE*
5a	Dose Rates from Plume & Sky Shine
5b	Map for Sky Shine Dose Rates

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
5a	OSC with Field Teams, Field Teams

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Dose Rates in Plant Vicinity- Sky Shine

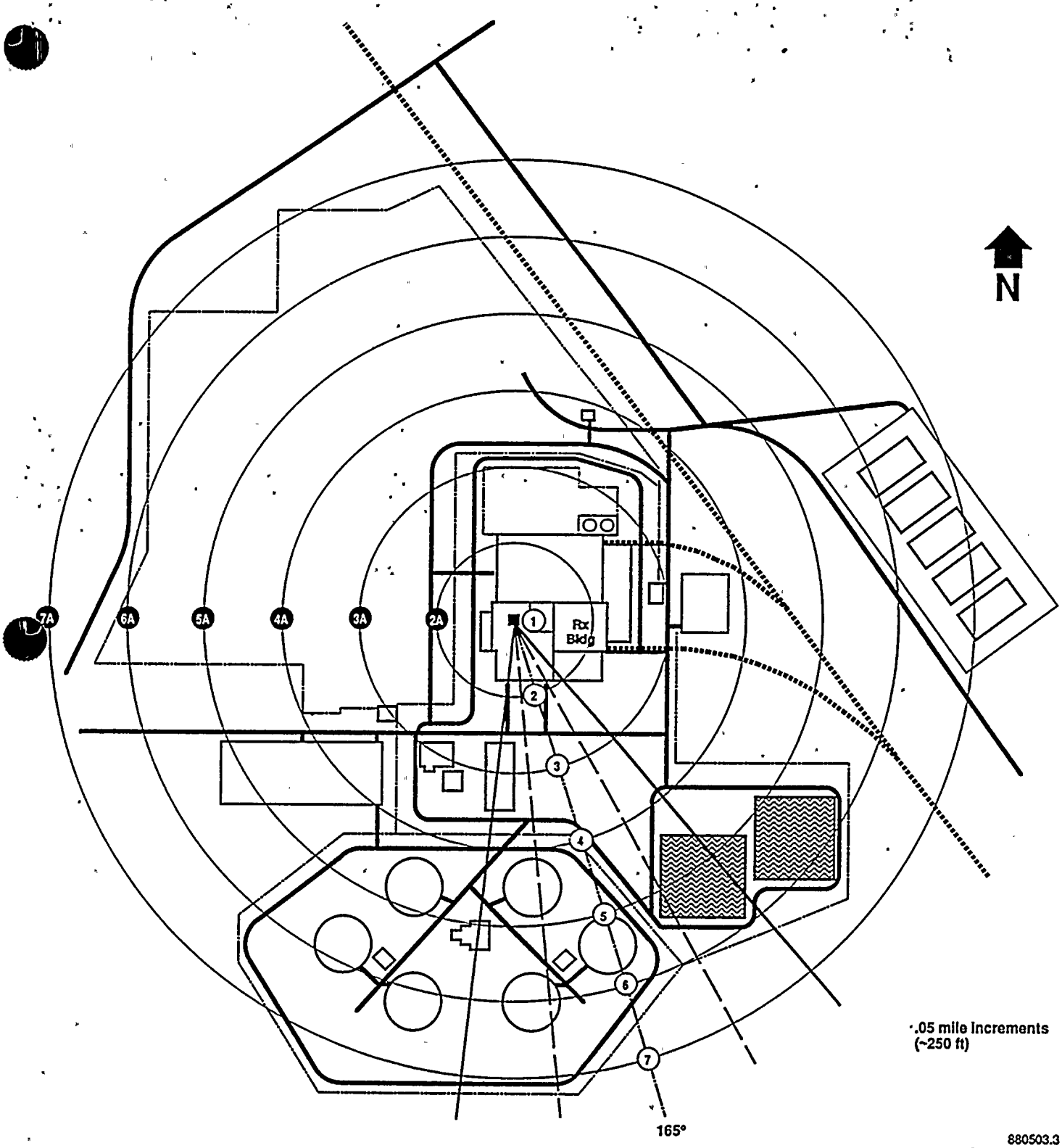
A. Instructions:

1. Dose rates in the Plume: Use the table reading for the time and centerline point. Interpolate proximity to centerline.

2. Dose rates due to Sky Shine: Use the table for the time and area outside of the Plume.

B. Dose Rate Table:

	Plume Dose Rate (mR/hr) Centerline Point							Sky Shine Dose Rate (mR/hr) Area					
Time	1	2	3	4	5	6	7	2A	3A	4A	5A	6A	7A
8:00	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd
8:30	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd	Bkd
9:00	203	121	38.1	40.8	43.5	47.2	50.8	14	0.20	0.02	Bkd	Bkd	Bkd
9:15	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.1	Bkd	Bkd	Bkd	Bkd	Bkd
9:30	0.5	0.5	0.5	0.4	0.2	0.2	0.1	0.1	Bkd	Bkd	Bkd	Bkd	Bkd
9:45	0.5	0.5	0.5	0.3	0.2	0.2	0.1	0.1	Bkd	Bkd	Bkd	Bkd	Bkd
10:00	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
10:15	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
10:30	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
10:45	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
11:00	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
11:15	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
11:30	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
11:45	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
12:00	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	Bkd	Bkd	Bkd	Bkd	Bkd
12:15	0.5	0.5	0.5	0.3	0.2	0.2	0.1	0.1	Bkd	Bkd	Bkd	Bkd	Bkd
12:30	0.9	0.8	0.8	0.6	0.4	0.3	0.2	0.1	Bkd	Bkd	Bkd	Bkd	Bkd
12:45	1.6	1.5	1.4	1.1	0.7	0.5	0.4	0.2	Bkd	Bkd	Bkd	Bkd	Bkd
13:00	2.1	1.9	1.8	1.4	0.9	0.7	0.5	0.2	Bkd	Bkd	Bkd	Bkd	Bkd
13:15	2.7	2.6	2.5	1.8	1.2	1.0	0.7	0.3	Bkd	Bkd	Bkd	Bkd	Bkd
13:30	3.7	3.5	3.3	2.5	1.6	1.3	0.9	0.4	Bkd	Bkd	Bkd	Bkd	Bkd
13:45	5.0	4.7	4.5	3.3	2.2	1.7	1.2	0.5	Bkd	Bkd	Bkd	Bkd	Bkd
14:00	7.4	7.0	6.7	5.0	3.3	2.6	1.9	0.7	Bkd	Bkd	Bkd	Bkd	Bkd
14:15	10	9.4	8.9	6.7	4.5	3.5	2.5	1.0	Bkd	Bkd	Bkd	Bkd	Bkd
14:30	9.6	9.1	8.6	6.5	4.3	3.4	2.4	1.0	Bkd	Bkd	Bkd	Bkd	Bkd



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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.	Exercise 91	PAGE ____ of ____
SHEET NO. 6	RESPONSIBLE CONTROLLER (LOCATION) Control Cell, MUDAC	
VALID FOR TIMES OF: REAL TIME 0800 ☐ AM ☐ PM TO 1430 ☐ AM ☐ PM	DRILL TIME 0000 HOURS TO 0630 HOURS	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO METEOROLOGICAL DATA	

DATA SHEET	ITEM
6a	Weather Forecast
6b	Stability Classification Table
6c	Met Tower Readings

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
6a	Control Room (Simulator), MUDAC & TSC

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Meteorological Data - Weather Forecast

A. Forecast 0400-1900

Walla Walla Valley forecast valid until 7:00 p.m. PDT, April 22, 1991, from the National Service in Pendelton, OR (or Seattle, Washington) as of 4:00 a.m. PDT April 22, 1991.

The 0400 hours temperature this morning is expected to be in the 45-50 degree range with warming into the high 60 degree range by early afternoon. The winds will be north northwesterly and moderately unstable in the morning with a speed of 4-6 mph then decreasing slightly in lat

A sunny and cool day is expected, but good for being outdoors.

A one day look ahead shows essentially the same weather pattern for tomorrow. Little change in the weather is expected for the remainder of the week.

B.Controller Information

NOTE:For CONTROLLERS-- If Battelle is called for the weather, use the backup data from Sheet 6c.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

.L NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
6b	Control Room (Simulator),HUDAC & TSC

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Meteorological Data - Stability Classification Table

A. Stability Class vs. $\Delta T/\Delta z$ signal

Stability Classification	Pasquill Categories	Temperature Change With Height (Degrees C/100m
Extremely Unstable	A	$\Delta T/\Delta z$ -1.9
Moderately unstable	B	-1.9 $\Delta T/\Delta z$ -1.7
Slightly unstable	C	-1.7 $\Delta T/\Delta z$ -1.5
Neutral	D	-1.5 $\Delta T/\Delta z$ -0.5
Slightly stable	E	-0.5 $\Delta T/\Delta z$ 1.5
Moderately stable	F	1.5 $\Delta T/\Delta z$ 4
Extremely stable	G	4 $\Delta T/\Delta z$

B. Stability Class vs.Sigma Theta Signal

Stability Classification	Pasquill Categories	(Degrees)
Extremely Unstable	A	sigma theta $\geq$ 22.5
Moderately unstable	B	22.5 $\geq$ sigma theta $\geq$ 17.5
Slightly unstable	C	17.5 $\geq$ sigma theta $\geq$ 12.5
Neutral	D	12.5 $\geq$ sigma theta $\geq$ 7.5
Slightly stable	E	7.5 $\geq$ sigma theta $\geq$ 3.8
Moderately stable	F	3.8 $\geq$ sigma theta $\geq$ 2.1
Extremely stable	G	2.1 $\geq$ sigma theta

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
6c	Control Room (Simulator), HUDAC & TSC

VALID FOR TIMES OF:							
REAL TIME	4:00 ☐AM ☐PM	TO	16:00 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	12:00 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Meteorological Data - Tower Readings (Primary & Backup)

Primary Met Tower Readings

Time	Wind Speed (MPH)	Wind Direction From Degrees	Pasquill Category	Delta T ΔT/Δz Degrees C/100m	Sigma Theta (Degrees)	Temp. Degrees C	Stability Classification
0400-0500	3	334-355	B	-1.8	21.0	7.2	Moderately Unstable
0500-0600	4	335-356	B	-1.8	21.2	7.8	Moderately Unstable
0600-0700	4	336-355	B	-1.8	20.5	10.0	Moderately Unstable
0700-0800	5	342-358	C	-1.6	16.5	15.6	Slightly Unstable
0800-0900	6	339-355	C	-1.6	16.4	18.3	Slightly Unstable
0900-1000	6	336-352	C	-1.6	16.4	18.3	Slightly Unstable
1000-1100	6	335-354	C	-1.6	16.5	20.0	Slightly Unstable
1100-1200	6	337-353	C	-1.6	16.6	20.0	Slightly Unstable
1200-1300	6	336-353	C	-1.6	16.3	20.0	Slightly Unstable
1300-1400	6	335-354	C	-1.6	16.5	20.6	Slightly Unstable
1400-1500	6	336-353	C	-1.6	16.4	20.0	Slightly Unstable
1500-1600	3	335-357	B	-1.8	20.5	18.3	Moderately Unstable
1600-1700	3	334-357	B	-1.8	20.4	17.8	Moderately Unstable

Backup Met Tower Readings

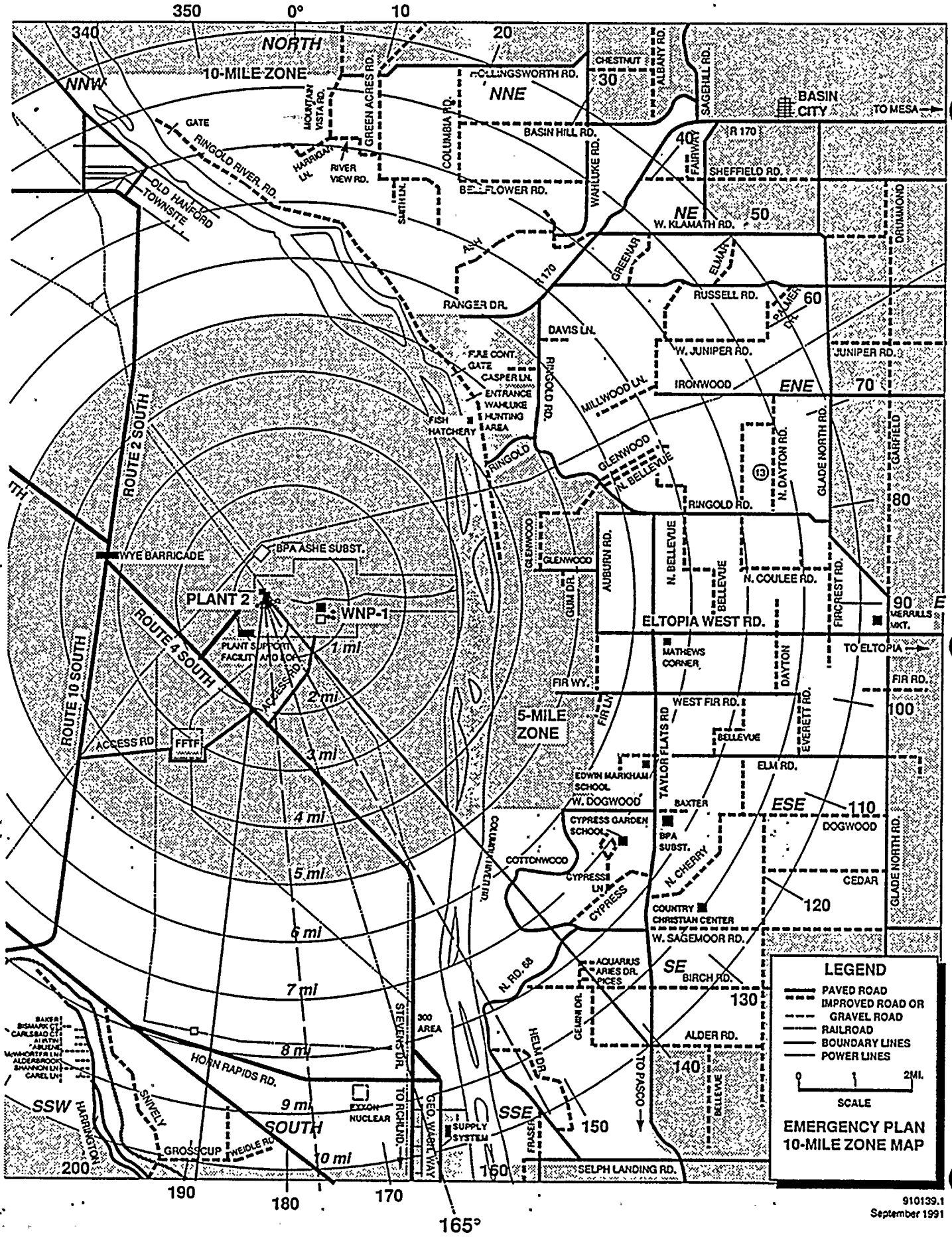
Time	Wind Speed (MPH)	Wind Direction From Degrees	Pasquill Category	Delta T ΔT/Δz Degrees C/100m	Sigma Theta (Degrees)	Temp. Degrees C	Stability Classification
0400-0500	3	334-355	B	-1.8	21.1	7.2	Moderately Unstable
0500-0600	4	335-356	B	-1.8	21.2	7.8	Moderately Unstable
0600-0700	4	336-355	B	-1.8	20.6	10.0	Moderately Unstable
0700-0800	4	342-358	C	-1.6	17.1	15.6	Slightly Unstable
0800-0900	6	339-355	C	-1.6	16.8	18.3	Slightly Unstable
0900-1000	6	336-352	C	-1.6	16.4	18.3	Slightly Unstable
1000-1100	6	335-354	C	-1.6	16.5	20.0	Slightly Unstable
1100-1200	6	337-353	C	-1.6	16.7	20.0	Slightly Unstable
1200-1300	6	336-353	C	-1.6	16.3	20.0	Slightly Unstable
1300-1400	6	335-354	C	-1.6	16.5	20.6	Slightly Unstable
1400-1500	6	336-353	C	-1.6	16.4	20.0	Slightly Unstable
1500-1600	5	335-357	B	-1.8	20.5	18.3	Moderately Unstable
1600-1700	4	334-357	B	-1.8	20.1	17.8	Moderately Unstable

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	Exercise 91	PAGE ____ of ____
SHEET NO. 7 Rev	RESPONSIBLE CONTROLLER (LOCATION) MUDAC & Field Team Control Cell	
VALID FOR TIMES OF: REAL TIME	☐ AM 0800 TO 1630 ☐ PM	☐ AM 0000 TO 0630 ☐ PM DRILL TIME HOURS HOURS
ASSOCIATED WITH MESSAGES		INFORMATION APPLIES TO: FIELD TEAM DATA

SHT NO.	*TITLE*
7a	Direct Reading Map - Plume Boundaries Shown
7b	Plume Dose and Dose Rates (1-10 miles)
7b-1	Plume Dose and Dose Rates (0-1 mile)
7c	Air Sample Results - Field Team (1-10 miles)
7d	Air Sample Results - Field Team (0-1 mile)
7e	Radioiodine Deposition (1 - 10 miles) - Field Team
7f	Radioiodine Deposition (0 - 1 mile) - Field Team



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September 1991

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

CALL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
7b Rev. 1	Field Teams, HUDAC, and HP Center

VALID FOR TIMES OF:
REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM
DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data -
Plume Dose & Dose Rates

Field Data for 9:00 to 12:00

	Cummulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	1.25E-05	6.86E-04	23	16	13	60	35	20	0:0	0:0	0:0	0:1	0:1	0:1
1	1.72E-05	9.46E-04	27	19	13	79	44	24	0:0	0:0	0:0	0:1	0:1	0:1
2	5.22E-06	2.86E-04	15	13	11	31	20	14	0:0	0:0	0:0	0:1	0:1	0:0
3	2.17E-06	1.48E-04	12	11	10	19	14	12	0:0	0:0	0:0	0:0	0:0	0:0
4	1.72E-06	9.46E-05	12	11	10	17	13	11	0:0	0:0	0:0	0:0	0:0	0:0
5	1.24E-06	6.78E-05	11	11	10	15	12	11	0:0	0:0	0:0	0:0	0:0	0:0

Field Data for 12:00 to 12:30

	Cummulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	3.35E-05	1.85E-03	28	19	14	80	45	24	0:0	0:0	0:0	0:1	0:1	0:1
1	4.62E-05	2.55E-03	39	25	16	126	68	33	0:1	0:0	0:0	0:2	0:1	0:1
2	1.40E-05	7.70E-04	17	14	11	39	24	16	0:0	0:0	0:0	0:1	0:1	0:0
3	6.70E-06	3.98E-04	13	12	11	23	16	13	0:0	0:0	0:0	0:1	0:0	0:0
4	4.62E-06	2.55E-04	13	11	11	20	15	12	0:0	0:0	0:0	0:1	0:0	0:0
5	3.32E-06	1.83E-04	12	11	10	17	14	11	0:0	0:0	0:0	0:0	0:0	0:0

Field Data for 12:30 to 12:40

	Cummulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	6.04E-05	3.34E-03	31	21	14	94	52	27	0:0	0:0	0:0	0:1	0:1	0:1
1	8.32E-05	4.60E-03	47	29	17	158	84	40	0:1	0:0	0:0	0:2	0:1	0:1
2	2.52E-05	1.39E-03	19	14	12	45	28	17	0:0	0:0	0:0	0:1	0:1	0:0
3	1.25E-05	7.18E-04	15	12	11	28	19	14	0:0	0:0	0:0	0:1	0:0	0:0
4	8.33E-06	4.60E-04	13	11	11	22	16	12	0:0	0:0	0:0	0:1	0:0	0:0
5	5.98E-06	3.30E-04	12	11	10	18	14	12	0:0	0:0	0:0	0:0	0:0	0:0

Field Data for 12:40 to 12:50

	Cummulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	1.01E-04	4.83E-03	37	23	15	118	64	32	0:1	0:0	0:0	0:1	0:1	0:1
1	1.39E-04	6.65E-03	66	38	21	232	121	54	0:1	0:1	0:0	0:3	0:2	0:1
2	4.20E-05	2.01E-03	21	16	12	55	32	19	0:0	0:0	0:0	0:1	0:1	0:0
3	2.12E-05	1.04E-03	16	13	11	33	22	15	0:0	0:0	0:0	0:1	0:1	0:0
4	1.39E-05	6.65E-04	14	12	11	25	17	13	0:0	0:0	0:0	0:1	0:0	0:0
5	9.96E-06	4.77E-04	13	11	11	21	15	12	0:0	0:0	0:0	0:1	0:0	0:0

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7b - Rev 1 cont | RESPONSIBLE CONTROLLER (LOCATION) Field Team, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Plume Dose & Dose Rates

Field Data for 12:50 to 13:00

Distance Miles	Cumulative Dose Plume Centerline Dose Rem(WB)	Cumulative Dose Plume Centerline Dose Rem(THY)	Plume Dose Rates At Waist Lev Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	At 1/2" Above Ground Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Plume Dose Rates At Waist Level Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	At 1/ 2" Above Ground Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	1.49E-04	7.52E-03	50	30	18	171	91	42	0:1	0:0	0:0	0:2	0:1	0:1
1	2.06E-04	1.03E-02	77	44	23	278	144	64	0:1	0:1	0:0	0:3	0:2	0:1
2	6.23E-05	3.13E-03	27	18	13	77	44	23	0:0	0:0	0:0	0:1	0:1	0:1
3	3.17E-05	1.62E-03	19	14	12	45	27	17	0:0	0:0	0:0	0:1	0:1	0:0
4	2.06E-05	1.04E-03	16	13	11	32	21	14	0:0	0:0	0:0	0:1	0:1	0:0
5	1.48E-05	7.43E-04	14	12	11	26	18	13	0:0	0:0	0:0	0:1	0:0	0:0

Field Data for 13:00 to 13:10

Distance Miles	Cumulative Dose Plume Centerline Dose Rem(WB)	Cumulative Dose Plume Centerline Dose Rem(THY)	Plume Dose Rates At Waist Lev Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	At 1/2" Above Ground Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Plume Dose Rates At Waist Level Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	At 1/ 2" Above Ground Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	2.09E-04	1.08E-02	59	34	20	204	107	49	0:1	0:1	0:0	0:2	0:1	0:1
1	2.88E-04	1.49E-02	92	51	26	337	173	75	0:1	0:1	0:0	0:4	0:2	0:1
2	8.70E-05	4.50E-03	30	20	14	91	51	26	0:0	0:0	0:0	0:1	0:1	0:1
3	4.45E-05	2.32E-03	21	15	12	52	31	18	0:0	0:0	0:0	0:1	0:1	0:0
4	2.88E-05	1.49E-03	17	13	11	37	23	15	0:0	0:0	0:0	0:1	0:1	0:0
5	2.06E-05	1.07E-03	15	12	11	29	20	14	0:0	0:0	0:0	0:1	0:0	0:0

Field Data for 13:10 to 13:20

Distance Miles	Cumulative Dose Plume Centerline Dose Rem(WB)	Cumulative Dose Plume Centerline Dose Rem(THY)	Plume Dose Rates At Waist Lev Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	At 1/2" Above Ground Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Plume Dose Rates At Waist Level Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	At 1/2" Above Ground Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	2.80E-04	1.48E-02	69	40	22	247	129	57	0:1	0:1	0:0	0:3	0:2	0:1
1	3.86E-04	2.03E-02	109	59	30	404	207	89	0:2	0:1	0:0	0:4	0:2	0:1
2	1.17E-04	6.15E-03	35	22	15	109	59	30	0:1	0:0	0:0	0:1	0:1	0:1
3	5.99E-05	3.18E-03	23	16	13	61	36	20	0:0	0:0	0:0	0:1	0:1	0:1
4	3.86E-05	2.03E-03	18	14	12	43	26	17	0:0	0:0	0:0	0:1	0:1	0:0
5	2.77E-05	1.46E-03	16	13	11	33	22	15	0:0	0:0	0:0	0:1	0:1	0:0

Field Data for 13:20 to 13:30

Distance Miles	Cumulative Dose Plume Centerline Dose Rem(WB)	Cumulative Dose Plume Centerline Dose Rem(THY)	Plume Dose Rates At Waist Lev Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	At 1/2" Above Ground Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Plume Dose Rates At Waist Level Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	At 1/2" Above Ground Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	3.67E-04	1.96E-02	82	46	24	296	153	67	0:1	0:1	0:0	0:3	0:2	0:1
1	5.06E-04	2.69E-02	130	70	34	490	250	106	0:2	0:1	0:1	0:5	0:3	0:1
2	1.53E-04	8.16E-03	40	25	16	129	70	34	0:1	0:0	0:0	0:2	0:1	0:1
3	7.86E-05	4.22E-03	25	18	13	72	41	22	0:0	0:0	0:0	0:1	0:1	0:1
4	5.06E-05	2.70E-03	20	15	12	49	30	18	0:0	0:0	0:0	0:1	0:1	0:0
5	3.63E-05	1.93E-03	17	14	11	38	24	16	0:0	0:0	0:0	0:1	0:1	0:0

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
7b - Rev 1 cont	Field Team, MUDAC, and HP Center

VALID FOR TIMES OF:							
REAL TIME	8:00 ☐AM ☐PM	TO	14:30 ☐AM ☐PM	DRILL TIME	0:00 HOURS	TO	6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Field Team Data - Plume Dose & Dose Rates

Field Data for 13:30 to 13:40

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	4.73E-04	2.55E-02	97	54	27	358	184	80	0:1	0:1	0:0	0:4	0:2	0:1
1	6.53E-04	3.51E-02	157	84	39	598	304	128	0:2	0:1	0:1	0:6	0:3	0:2
2	1.97E-04	1.06E-02	46	28	17	155	83	39	0:1	0:0	0:0	0:2	0:1	0:1
3	1.01E-04	5.49E-03	29	19	14	85	47	25	0:0	0:0	0:0	0:1	0:1	0:1
4	6.53E-05	3.51E-03	22	16	12	58	34	20	0:0	0:0	0:0	0:1	0:1	0:0
5	4.68E-05	2.51E-03	19	14	12	44	27	17	0:0	0:0	0:0	0:1	0:1	0:0

Field Data for 13:40 to 13:50

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	6.07E-04	3.29E-02	116	63	31	434	222	95	0:2	0:1	0:0	0:5	0:3	0:1
1	8.38E-04	4.53E-02	195	103	47	750	380	158	0:3	0:2	0:1	0:8	0:4	0:2
2	2.53E-04	1.37E-02	54	32	19	187	99	45	0:1	0:0	0:0	0:2	0:1	0:1
3	1.30E-04	7.09E-03	33	21	15	102	56	28	0:0	0:0	0:0	0:1	0:1	0:1
4	8.38E-05	4.53E-03	25	17	13	69	39	22	0:0	0:0	0:0	0:1	0:1	0:1
5	6.00E-05	3.25E-03	21	15	12	52	31	18	0:0	0:0	0:0	0:1	0:1	0:0

Field Data for 13:50 to 14:00

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	7.90E-04	4.30E-02	144	77	37	546	278	117	0:2	0:1	0:1	0:6	0:3	0:1
1	1.09E-03	5.93E-02	262	136	60	1018	514	212	0:4	0:2	0:1	1:0	0:5	0:2
2	3.30E-04	1.79E-02	66	38	21	234	122	55	0:1	0:1	0:0	0:3	0:2	0:1
3	1.70E-04	9.27E-03	39	24	16	126	68	33	0:1	0:0	0:0	0:2	0:1	0:1
4	1.09E-04	5.93E-03	29	19	14	84	47	25	0:0	0:0	0:0	0:1	0:1	0:1
5	7.81E-05	4.25E-03	23	17	13	63	36	21	0:0	0:0	0:0	0:1	0:1	0:1

Field Data for 14:00 to 14:10

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	1.02E-03	5.56E-02	193	102	47	742	376	156	0:3	0:2	0:1	0:8	0:4	0:2
1	1.40E-03	7.67E-02	324	167	73	1266	638	261	0:5	0:3	0:1	1:3	0:7	0:3
2	4.25E-04	2.32E-02	86	48	25	315	163	71	0:1	0:1	0:0	0:3	0:2	0:1
3	2.19E-04	1.20E-02	49	30	18	168	89	42	0:1	0:0	0:0	0:2	0:1	0:1
4	1.40E-04	7.67E-03	35	23	15	111	60	30	0:1	0:0	0:0	0:1	0:1	0:1
5	1.01E-04	5.50E-03	28	19	14	82	46	24	0:0	0:0	0:0	0:1	0:1	0:1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7b - Rev 1 cont | RESPONSIBLE CONTROLLER (LOCATION) Field Team, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Plume Dose & Dose Rates

Field Data for 14:10 to 14:20

Distance Miles	Cumulative Dose Plume Centerline Dose Rem(WB)	Cumulative Dose Plume Centerline Dose Rem(THY)	Plume Dose Rates At Waist Lev Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	At 1/2" Above Ground Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Plume Dose Rates At Waist Level Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	At 1/2" Above Ground Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	1.24E-03	6.80E-02	238	124	56	922	466	192	0.4	0.2	0.1	1.0	0.5	0.2
1	1.71E-03	9.37E-02	317	164	71	1238	624	256	0.5	0.2	0.1	1.3	0.7	0.3
2	5.18E-04	2.83E-02	105	58	29	390	200	86	0.2	0.1	0.0	0.4	0.2	0.1
3	2.67E-04	1.46E-02	59	35	20	206	108	49	0.1	0.1	0.0	0.2	0.1	0.1
4	1.71E-04	9.37E-03	41	26	16	136	73	35	0.1	0.0	0.0	0.2	0.1	0.1
5	1.23E-04	6.72E-03	33	21	15	100	55	28	0.0	0.0	0.0	0.1	0.1	0.1

Field Data for 14:20 to 14:30

Distance Miles	Cumulative Dose Plume Centerline Dose Rem(WB)	Cumulative Dose Plume Centerline Dose Rem(THY)	Plume Dose Rates At Waist Lev Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	At 1/2" Above Ground Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Plume Dose Rates At Waist Level Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	At 1/2" Above Ground Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
1.2	1.46E-03	8.01E-02	233	122	55	902	456	188	0.3	0.2	0.1	0.9	0.5	0.2
1	2.01E-03	1.10E-01	311	161	70	1214	612	251	0.5	0.2	0.1	1.2	0.6	0.3
2	6.09E-04	3.34E-02	103	57	29	382	196	84	0.2	0.1	0.0	0.4	0.2	0.1
3	3.14E-04	1.73E-02	58	34	20	202	106	48	0.1	0.1	0.0	0.2	0.1	0.1
4	2.01E-04	1.10E-02	41	25	16	133	71	35	0.1	0.0	0.0	0.2	0.1	0.1
5	1.44E-04	7.92E-03	32	21	14	98	54	28	0.0	0.0	0.0	0.1	0.1	0.1

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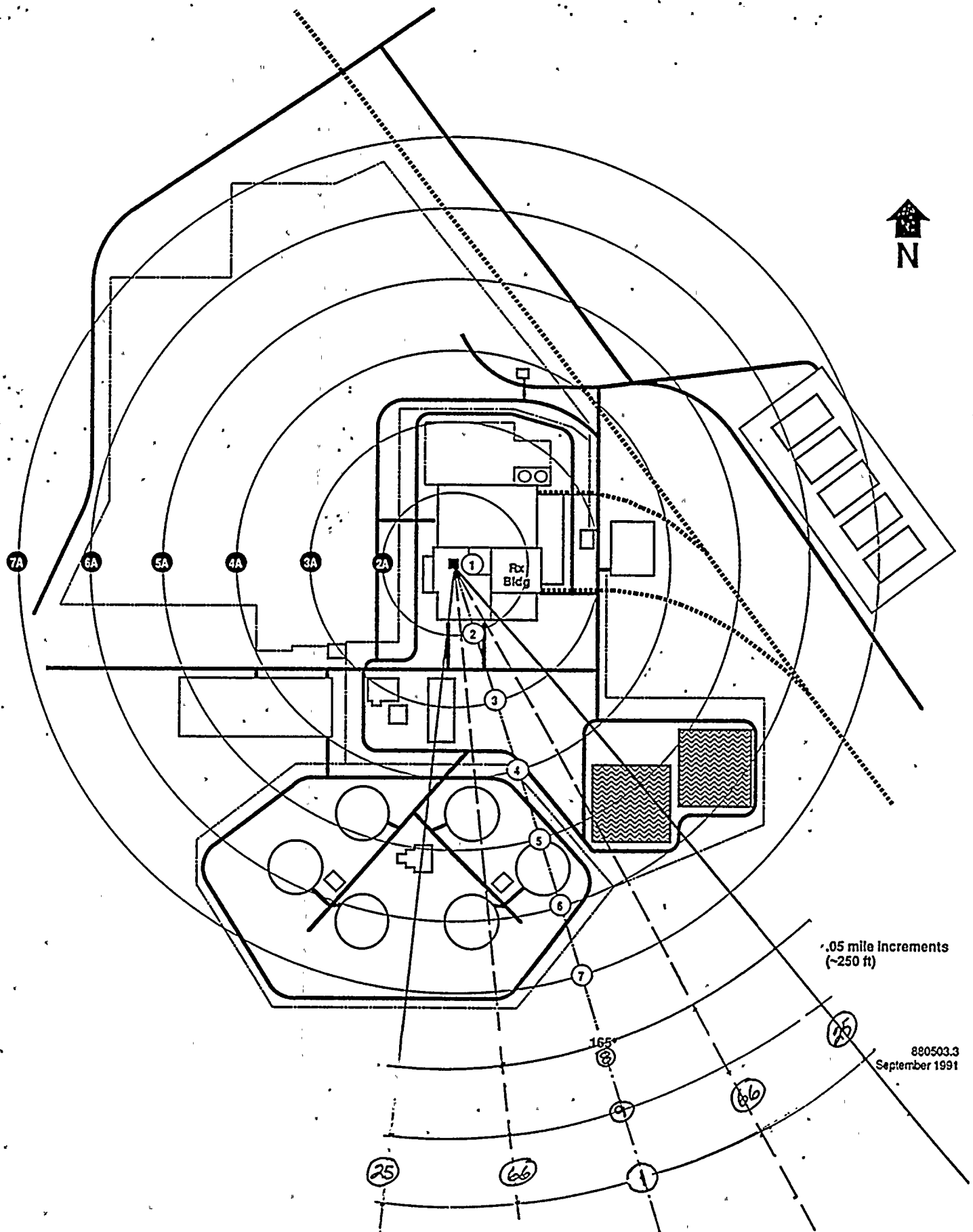
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September 1991

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

.L NO. Exercise 91	PAGE ____ of ____
SHEET NO. 7b -1 Rev. 1	RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center
VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM	DRILL TIME 0:00 HOURS TO 6:30 HOURS
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO Field Team Data - Plume Dose & Dose Rates

Field Data for 9:00 to 12:00

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	5.87E-05	3.22E-03	69	39	22	245	127	57	0:1	0:1	0:0	0:3	0:2	0:1
0.6	4.26E-05	2.34E-03	53	31	19	180	95	44	0:1	0:0	0:0	0:2	0:1	0:1
0.7	3.25E-05	1.78E-03	42	26	16	140	75	36	0:1	0:0	0:0	0:2	0:1	0:1
0.8	2.56E-05	1.40E-03	36	23	15	112	61	30	0:1	0:0	0:0	0:1	0:1	0:1
9.0	2.08E-05	1.14E-03	31	20	14	93	52	27	0:0	0:0	0:0	0:1	0:1	0:1
1.0	1.72E-05	9.46E-04	27	19	13	79	44	24	0:0	0:0	0:0	0:1	0:1	0:1

Field Data for 12:00 to 12:30

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	1.31E-04	7.24E-03	88	49	26	320	165	72	0:1	0:1	0:0	0:4	0:2	0:1
0.6	9.56E-05	4.51E-03	63	36	21	222	116	52	0:1	0:1	0:0	0:3	0:1	0:1
0.7	7.28E-05	2.40E-02	50	30	18	171	91	42	0:1	0:0	0:0	0:2	0:1	0:1
0.8	5.74E-05	3.16E-03	42	26	16	137	74	35	0:1	0:0	0:0	0:2	0:1	0:1
9.0	4.66E-05	2.81E-03	36	23	15	113	62	31	0:1	0:0	0:0	0:1	0:1	0:1
1.0	3.86E-05	2.47E-03	39	25	16	126	68	33	0:1	0:0	0:0	0:2	0:1	0:1

Field Data for 12:30 to 12:40

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	2.57E-04	1.42E-02	136	73	35	514	262	111	0:2	0:1	0:1	0:5	0:3	0:1
0.6	1.87E-04	9.56E-03	102	56	28	377	194	83	0:2	0:1	0:0	0:4	0:2	0:1
0.7	1.42E-04	2.79E-02	80	45	24	288	149	66	0:1	0:1	0:0	0:3	0:2	0:1
0.8	1.12E-04	6.20E-03	65	38	21	230	120	54	0:1	0:1	0:0	0:3	0:2	0:1
9.0	9.12E-05	5.28E-03	55	32	19	189	99	46	0:1	0:0	0:0	0:2	0:1	0:1
1.0	7.56E-05	4.52E-03	47	29	17	158	84	40	0:1	0:0	0:0	0:2	0:1	0:1

Field Data for 12:40 to 12:50

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	4.46E-04	2.46E-02	199	105	48	766	388	161	0:3	0:2	0:1	0:8	0:4	0:2
0.6	3.25E-04	1.72E-02	147	79	37	560	285	120	0:2	0:1	0:1	0:6	0:3	0:1
0.7	2.47E-04	3.37E-02	114	62	31	428	219	94	0:2	0:1	0:0	0:5	0:2	0:1
0.8	1.95E-04	1.08E-02	93	51	27	341	176	76	0:1	0:1	0:0	0:4	0:2	0:1
9.0	1.58E-04	8.98E-03	77	44	23	279	144	64	0:1	0:1	0:0	0:3	0:2	0:1
1.0	8.32E-05	4.60E-03	66	38	21	232	121	54	0:1	0:1	0:0	0:3	0:2	0:1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7b -1 Rev 1 cont | RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Plume Dose & Dose Rates

Field Data for 12:50 to 13:00

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	4.60E-04	2.54E-02	238	124	56	922	466	192	0.4	0.2	0.1	1.0	0.5	0.2
0.6	3.34E-04	1.84E-02	176	93	43	672	341	142	0.3	0.1	0.1	0.7	0.4	0.2
0.7	2.54E-04	1.74E-02	136	73	35	514	262	111	0.2	0.1	0.1	0.5	0.3	0.1
0.8	2.01E-04	1.11E-02	110	60	30	408	209	90	0.2	0.1	0.0	0.4	0.2	0.1
9.0	1.63E-04	9.05E-03	91	51	26	334	172	75	0.1	0.1	0.0	0.4	0.2	0.1
1.0	1.50E-04	8.30E-03	77	44	23	279	144	64	0.1	0.1	0.0	0.3	0.2	0.1

Field Data for 13:00 to 13:10

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/ 2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	7.38E-04	4.08E-02	288	149	66	1121	566	232	0.4	0.2	0.1	1.2	0.6	0.3
0.6	5.36E-04	2.96E-02	212	111	50	819	414	172	0.3	0.2	0.1	0.8	0.4	0.2
0.7	4.08E-04	2.59E-02	164	87	41	624	317	133	0.2	0.1	0.1	0.7	0.3	0.2
0.8	3.22E-04	1.78E-02	131	71	34	495	252	107	0.2	0.1	0.1	0.5	0.3	0.1
9.0	2.62E-04	1.45E-02	108	59	30	404	207	89	0.2	0.1	0.0	0.4	0.2	0.1
1.0	2.32E-04	1.28E-02	92	51	26	336	173	75	0.1	0.1	0.0	0.4	0.2	0.1

Field Data for 13:10 to 13:20

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	1.07E-03	5.93E-02	345	178	77	1352	681	278	0.5	0.3	0.1	1.4	0.7	0.3
0.6	7.80E-04	4.31E-02	254	132	59	984	497	205	0.4	0.2	0.1	1.0	0.5	0.2
0.7	5.93E-04	3.62E-02	195	103	47	752	381	158	0.3	0.2	0.1	0.8	0.4	0.2
0.8	4.69E-04	2.59E-02	156	83	39	596	303	127	0.2	0.1	0.1	0.6	0.3	0.2
9.0	3.81E-04	2.11E-02	129	69	34	485	248	105	0.2	0.1	0.1	0.5	0.3	0.1
1.0	3.30E-04	1.83E-02	108	59	30	404	207	89	0.2	0.1	0.0	0.4	0.2	0.1

Field Data for 13:20 to 13:30

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	1.48E-03	8.19E-02	418	214	92	1642	826	336	0.6	0.3	0.1	1.7	0.9	0.4
0.6	1.08E-03	5.94E-02	306	158	69	1196	603	247	0.5	0.2	0.1	1.2	0.6	0.3
0.7	8.19E-04	4.86E-02	236	123	55	912	461	190	0.4	0.2	0.1	0.9	0.5	0.2
0.8	6.47E-04	3.58E-02	188	99	46	723	366	153	0.3	0.1	0.1	0.8	0.4	0.2
9.0	5.25E-04	2.91E-02	155	82	39	588	299	126	0.2	0.1	0.1	0.6	0.3	0.2
1.0	4.50E-04	2.49E-02	130	70	34	490	250	106	0.2	0.1	0.1	0.5	0.3	0.1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91	PAGE ____ of ____
SHEET NO. 7b - Rev 1 cont	RESPONSIBLE CONTROLLER (LOCATION) Field Team, HUDAC, and HP Center
VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM	DRILL TIME 0:00 HOURS TO 6:30 HOURS
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO Field Team Data - Plume Dose & Dose Rates

Field Data for 13:30 to 13:40

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	1.98E-03	1.09E-01	509	259	110	2004	1007	409	0:8	0:4	0:2	2:0	1:0	0:4
0.6	1.44E-03	7.95E-02	372	191	82	1460	735	300	0:6	0:3	0:1	1:5	0:8	0:3
0.7	1.09E-03	6.39E-02	286	148	65	1114	562	231	0:4	0:2	0:1	1:1	0:6	0:3
0.8	8.65E-04	4.78E-02	228	119	54	881	446	184	0:3	0:2	0:1	0:9	0:5	0:2
9.0	7.02E-04	3.88E-02	186	98	45	716	363	151	0:3	0:1	0:1	0:7	0:4	0:2
1.0	5.97E-04	3.30E-02	156	83	39	596	303	127	0:2	0:1	0:1	0:6	0:3	0:2

Field Data for 13:40 to 13:50

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	2.61E-03	1.44E-01	640	325	136	2530	1270	514	1:0	0:5	0:2	2:6	1:3	0:5
0.6	1.90E-03	1.05E-01	467	238	101	1836	923	375	0:7	0:4	0:2	1:9	1:0	0:4
0.7	1.44E-03	8.31E-02	357	184	79	1400	705	288	0:5	0:3	0:1	1:4	0:7	0:3
0.8	1.14E-03	6.30E-02	284	147	65	1107	558	229	0:4	0:2	0:1	1:1	0:6	0:3
9.0	9.24E-04	5.11E-02	233	121	55	900	455	188	0:3	0:2	0:1	0:9	0:5	0:2
1.0	7.82E-04	4.32E-02	195	102	47	749	380	158	0:3	0:2	0:1	0:8	0:4	0:2

Field Data for 13:50 to 14:00

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	3.47E-03	1.92E-01	868	439	182	3442	1726	696	1:3	0:7	0:3	3:5	1:8	0:7
0.6	2.52E-03	1.39E-01	634	322	135	2506	1258	509	1:0	0:5	0:2	2:5	1:3	0:5
0.7	1.92E-03	1.09E-01	485	247	105	1908	959	390	0:7	0:4	0:2	1:9	1:0	0:4
0.8	1.51E-03	8.38E-02	384	197	85	1508	759	310	0:6	0:3	0:1	1:5	0:8	0:3
9.0	1.23E-03	6.80E-02	314	162	71	1224	617	253	0:5	0:2	0:1	1:3	0:6	0:3
1.0	1.03E-03	5.72E-02	262	136	60	1018	514	212	0:4	0:2	0:1	1:0	0:5	0:2

Field Data for 14:00 to 14:10

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	4.54E-03	2.51E-01	1078	544	224	4282	2146	864	1:6	0:8	0:3	4:3	2:2	0:9
0.6	3.29E-03	1.82E-01	784	397	165	3106	1558	629	1:2	0:6	0:2	3:1	1:6	0:7
0.7	2.51E-03	1.42E-01	600	305	128	2372	1191	482	0:9	0:5	0:2	2:4	1:2	0:5
0.8	1.98E-03	1.10E-01	476	243	103	1872	941	382	0:7	0:4	0:2	1:9	1:0	0:4
9.0	1.61E-03	8.89E-02	388	199	86	1522	766	312	0:6	0:3	0:1	1:6	0:8	0:3
1.0	1.35E-03	7.46E-02	324	167	73	1265	638	261	0:5	0:3	0:1	1:3	0:7	0:3

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SHEET NO. 7b - Rev 1 cont | RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Plume Dose & Dose Rates

Field Data for 14:10 to 14:20

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	5.58E-03	3.09E-01	1054	532	219	4186	2098	845	1:6	0:8	0:3	4:2	2:1	0:9
0.6	4.06E-03	2.24E-01	772	391	162	3058	1534	620	1:2	0:6	0:2	3:1	1:6	0:6
0.7	3.08E-03	1.74E-01	588	299	126	2321	1166	472	0:9	0:4	0:2	2:4	1:2	0:5
0.8	2.43E-03	1.35E-01	466	238	101	1834	922	375	0:7	0:4	0:2	1:9	1:0	0:4
9.0	1.98E-03	1.09E-01	380	195	84	1491	750	306	0:6	0:3	0:1	1:5	0:8	0:3
1.0	1.65E-03	9.17E-02	317	164	71	1239	624	256	0:5	0:2	0:1	1:3	0:7	0:3

Field Data for 14:20 to 14:30

	Cumulative Dose Plume Centerline		Plume Dose Rates At Waist Lev			At 1/2" Above Ground			Plume Dose Rates At Waist Level			At 1/2" Above Ground		
Distance Miles	Dose Rem(WB)	Dose Rem(THY)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center uR/hr (WC)	Half uR/hr (WC)	Edge uR/hr (WC)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)	Center mRad/hr (WO)	Half mRad/hr (WO)	Edge mRad/hr (WO)
0.5	6.61E-03	3.66E-01	1036	523	215	4114	2062	831	1:6	0:8	0:3	4:1	2:1	0:9
0.6	4.80E-03	2.66E-01	754	382	159	2986	1498	605	1:1	0:6	0:2	3:0	1:5	0:6
0.7	3.65E-03	2.06E-01	576	293	123	2273	1142	463	0:9	0:4	0:2	2:3	1:2	0:5
0.8	2.88E-03	1.60E-01	456	233	99	1796	903	367	0:7	0:3	0:1	1:8	0:9	0:4
9.0	2.34E-03	1.30E-01	372	191	82	1460	735	300	0:6	0:3	0:1	1:5	0:8	0:3
1.0	1.96E-03	1.08E-01	311	160	70	1212	611	250	0:5	0:2	0:1	1:2	0:6	0:3

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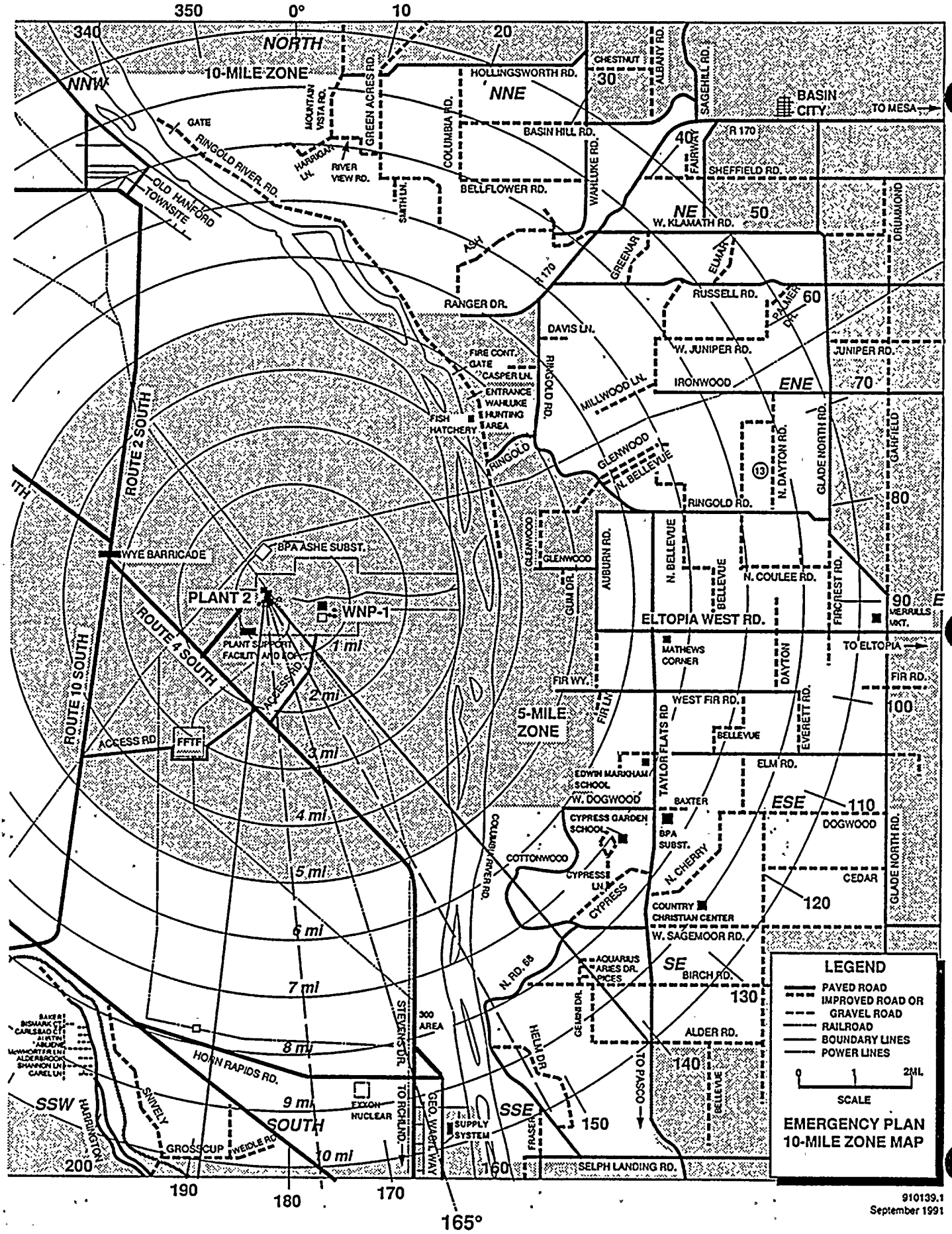
350
0°
10
340
20
NORTH
10-MILE ZONE
NNW
NNE
30
CHESTNUT
ALBANY RD.
SAGEHILL RD.
HOLLINGSWORTH RD.
BASIN CITY
TO MESA
GREEN ACRES RD.
MOUNTAIN VISTA RD.
GATE
RINGOLD RIVER RD.
HARRIGAN LN.
RIVER VIEW RD.
COLUMBIA RD.
BASIN HILL RD.
WAHLUKE RD.
40
FAIRWAY
R 170
SHEFFIELD RD.
OLD HANFORD TOWNSITE
SMITH LN.
BELLFLOWER RD.
NE
W. KLAMATH RD.
50
DRUMMOND
ASH
R 170
GREENAR
ELMAR
RANGER DR.
RUSSELL RD.
PALMER DR.
60
DAVIS LN.
W. JUNIPER RD.
JUNIPER RD.
FIRE CONT. GATE
CASPER LN.
ENTRANCE WAHLUKE HUNTING AREA
FISH HATCHERY
RINGOLD RD.
MILLWOOD LN.
IRONWOOD
ENE
70
ROUTE 2 SOUTH
GLENWOOD/N. BELLEVUE
N. DAYTON RD.
GLADE NORTH RD.
GARFIELD
13
RINGOLD RD.
80
WYE BARRICADE
BPA ASHE SUBST.
GLENWOOD
AUBURN RD.
N. BELLEVUE
BELLEVUE
N. COULEE RD.
FIRCREST RD.
90
E
PLANT 2
WNP-1
ROUTE 4 SOUTH
ELTOPIA WEST RD.
MERRILLS MKT.
PLANT SUPPORT FACILITY AND LOA
ACCESS RD.
1 mi
2 mi
MATHEWS CORNER
TO ELTOPIA
DAYTON
FIR RD.
ROUTE 10 SOUTH
FIR WY.
FIR LN.
WEST FIR RD.
100
5-MILE ZONE
ACCESS RD
FFTF
3 mi
BELLEVUE
EVERETT RD.
TAYLOR FLATS RD
ELM RD.
EDWIN MARKHAM SCHOOL
W. DOGWOOD
BAXTER
ESE
110
DOGWOOD
4 mi
CYPRESS GARDEN SCHOOL
BPA SUBST.
COLUMBIA RIVER RD.
COTTONWOOD
CYPRESS LN.
N. CHERRY
CYPRESS
CEDAR
5 mi
COUNTRY CHRISTIAN CENTER
120
6 mi
W. SAGEMOOR RD.
AQUARIUS
ARIES DR.
PICES
N. RD. 68
SE
BIRCH RD.
130
7 mi
300 AREA
STEVENS DR.
GEMINI DR.
HELM DR.
ALDER RD.
8 mi
HORN RAPIDS RD.
TOPASCO
140
SSW
SNIVELY
9 mi
EXXON NUCLEAR
TO RICHLAND
GEO. WASHINGTON WAY
SSE
SUPPLY SYSTEM
FRASER
150
SOUTH
GROSSCUP
WEIDLE RD.
10 mi
SELPH LANDING RD.
200
190
180
170
160
165°
LEGEND
PAVED ROAD
IMPROVED ROAD OR GRAVEL ROAD
RAILROAD
BOUNDARY LINES
POWER LINES
0 1 2ML
SCALE
EMERGENCY PLAN 10-MILE ZONE MAP
910139.1
September 1991

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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SHEET NO. 7c Rev 1

RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 9:00 to 9:10

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	987	19	3.88E-3	1.94E-4	4.40E-7	2.30E-10	1.11E-10	8.17E-13	0.0	1.46E-19

Field Team Data for 9:10 to 9:20

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	981	19	0.00	0.00	4.37E-7	2.29E-10	1.05E-10	8.07E-13	0.0	1.41E-19
1.2	1	747	14	0.00	0.00	3.33E-7	1.74E-10	8.02E-11	6.15E-13	0.0	1.08E-19
2	0	336	7	0.00	0.00	1.50E-7	7.85E-11	3.61E-11	2.77E-13	0.0	4.84E-20

Field Team Data for 9:20 to 9:30

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	954	18	0.00	0.00	4.25E-7	2.23E-10	9.70E-11	7.81E-13	0.0	1.35E-19
1.2	1	727	14	0.00	0.00	3.24E-7	1.70E-10	7.39E-11	5.95E-13	0.0	1.28E-19
2	0	327	6	0.00	0.00	1.46E-7	7.63E-11	3.33E-11	2.68E-13	0.0	1.22E-19
3	0	173	3	0.00	0.00	7.73E-8	4.05E-11	1.76E-11	1.42E-13	0.0	1.17E-19

Field Team Data for 9:30 to 9:40

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	921	17	0.00	0.00	4.11E-7	2.15E-10	8.86E-11	7.50E-13	0.0	1.28E-19
1.2	1	702	13	0.00	0.00	3.13E-7	1.64E-10	6.75E-11	5.71E-13	0.0	9.76E-20
2	0	316	6	0.00	0.00	1.41E-7	7.37E-11	3.04E-11	2.57E-13	0.0	4.39E-20
3	0	167	3	0.00	0.00	7.46E-8	3.90E-11	1.61E-11	1.36E-13	0.0	2.33E-20
4	0	108	2	0.00	0.00	4.83E-8	2.53E-11	1.04E-11	8.81E-14	0.0	1.50E-20

Field Team Data for 9:40 to9:50

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	893	16	0.00	0.00	3.98E-7	2.09E-10	8.14E-11	7.25E-13	0.0	1.22E-19
1.2	1	680	13	0.00	0.00	3.03E-7	1.59E-10	6.20E-11	5.52E-13	0.0	9.31E-20
2	0	306	6	0.00	0.00	1.37E-7	7.15E-11	2.79E-11	2.48E-13	0.0	4.19E-20
3	0	162	3	0.00	0.00	7.24E-8	3.79E-11	1.48E-11	1.32E-13	0.0	2.22E-20
4	0	105	2	0.00	0.00	4.68E-8	2.45E-11	9.56E-12	8.52E-14	0.0	1.44E-20
5	0	76	1	0.00	0.00	3.38E-8	1.77E-11	6.90E-12	6.14E-14	0.0	1.04E-20

Field Team Data for 9:50 to 10:00

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	866	16	0.00	0.00	3.86E-7	2.02E-10	7.46E-11	6.99E-13	0.0	1.16E-19
1.2	1	660	12	0.00	0.00	2.94E-7	1.54E-10	5.68E-11	6.75E-13	0.0	1.11E-19
2	0	297	5	0.00	0.00	1.32E-7	6.94E-11	2.56E-11	6.55E-13	0.0	1.07E-19
3	0	157	3	0.00	0.00	7.02E-8	3.68E-11	1.36E-11	6.31E-13	0.0	1.01E-19
4	0	102	2	0.00	0.00	4.54E-8	2.38E-11	8.76E-12	6.12E-13	0.0	9.91E-20
5	0	73	1	0.00	0.00	3.27E-8	1.72E-11	6.32E-12	5.93E-13	0.0	9.36E-20
6	0	57	1	0.00	0.00	2.52E-8	1.32E-11	4.87E-12	5.69E-13	0.0	8.83E-20

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SHEET NO. 7c Rev 1 -continued | RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 10:00 to 10:10

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	839	15	0.00	0.00	3.74E-7	1.96E-10	6.82E-11	6.74E-13	0.0	1.11E-19
1.2	1	639	11	0.00	0.00	2.85E-7	1.50E-10	5.20E-11	5.14E-13	0.0	8.45E-20
2	0	288	5	0.00	0.00	1.28E-7	6.73E-11	2.34E-11	2.31E-13	0.0	3.80E-20
3	0	152	3	0.00	0.00	6.80E-8	3.57E-11	1.24E-11	1.23E-13	0.0	2.02E-20
4	0	99	2	0.00	0.00	4.40E-8	2.31E-11	8.01E-12	7.93E-14	0.0	1.30E-20
5	0	71	1	0.00	0.00	3.17E-8	1.66E-11	5.78E-12	5.72E-14	0.0	9.40E-21
6	0	53	1	0.00	0.00	2.39E-8	1.25E-11	4.35E-12	4.28E-14	0.0	6.96E-21
7	0	55	1	0.00	0.00	2.45E-8	1.28E-11	4.46E-12	4.41E-14	0.0	7.25E-21

Field Team Data for 10:10 to 10:20

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	818	14	0.00	0.00	3.65E-7	1.92E-10	6.27E-11	6.55E-13	0.0	1.06E-19
1.2	1	623	11	0.00	0.00	2.78E-7	1.46E-10	4.78E-11	4.99E-13	0.0	8.11E-20
2	0	281	5	0.00	0.00	1.25E-7	6.57E-11	2.15E-11	2.25E-13	0.0	3.65E-20
3	0	149	3	0.00	0.00	6.64E-8	3.48E-11	1.14E-11	1.19E-13	0.0	1.93E-20
4	0	96	2	0.00	0.00	4.29E-8	2.25E-11	7.37E-12	7.70E-14	0.0	1.25E-20
5	0	69	1	0.00	0.00	3.10E-8	1.62E-11	5.32E-12	5.55E-14	0.0	9.02E-21
6	0	52	1	0.00	0.00	2.31E-8	1.21E-11	3.97E-12	4.12E-14	0.0	6.61E-21
7	0	43	1	0.00	0.00	1.93E-8	1.01E-11	3.31E-12	3.46E-14	0.0	5.61E-21
8	0	36	1	0.00	0.00	1.61E-8	8.43E-12	2.76E-12	2.88E-14	0.0	4.68E-21

Field Team Data for 10:20 to 10:30

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	771	13	0.00	0.00	3.44E-7	1.81E-10	5.57E-11	6.12E-13	0.0	9.89E-20
1.2	1	603	11	0.00	0.00	2.69E-7	1.41E-10	4.35E-11	4.80E-13	0.0	7.71E-20
2	0	271	5	0.00	0.00	1.21E-7	6.36E-11	1.96E-11	2.16E-13	0.0	3.47E-20
3	0	144	3	0.00	0.00	6.42E-8	3.37E-11	1.04E-11	1.15E-13	0.0	1.84E-20
4	0	93	2	0.00	0.00	4.15E-8	2.18E-11	6.71E-12	7.41E-14	0.0	1.19E-20
5	0	67	1	0.00	0.00	2.99E-8	1.57E-11	4.84E-12	5.34E-14	0.0	8.57E-21
6	0	50	1	0.00	0.00	2.25E-8	1.18E-11	3.64E-12	4.00E-14	0.0	6.46E-21
7	0	42	1	0.00	0.00	1.86E-8	9.78E-12	3.01E-12	3.33E-14	0.0	5.34E-21
8	0	35	1	0.00	0.00	1.55E-8	8.16E-12	2.51E-12	2.77E-14	0.0	4.45E-21
9	0	30	1	0.00	0.00	1.33E-8	6.96E-12	2.14E-12	2.37E-14	0.0	3.79E-21

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VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 10:30 to 12:00

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	615	11	0.00	0.00	2.75E-7	1.47E-10	4.26E-11	4.79E-13	0.0	6.90E-20
1.2	1	587	10	0.00	0.00	2.62E-7	1.38E-10	3.99E-11	4.66E-13	0.0	7.53E-20
2	0	264	5	0.00	0.00	1.18E-7	6.20E-11	1.79E-11	2.10E-13	0.0	3.39E-20
3	0	140	2	0.00	0.00	6.26E-8	3.28E-11	9.50E-12	1.11E-13	0.0	1.80E-20
4	0	91	2	0.00	0.00	4.05E-8	2.12E-11	6.15E-12	7.19E-14	0.0	1.16E-20
5	0	65	1	0.00	0.00	2.92E-8	1.53E-11	4.43E-12	5.18E-14	0.0	8.38E-21
6	0	49	1	0.00	0.00	2.19E-8	1.15E-11	3.33E-12	3.87E-14	0.0	6.10E-21
7	0	41	1	0.00	0.00	1.82E-8	9.53E-12	2.76E-12	3.23E-14	0.0	5.21E-21
8	0	34	1	0.00	0.00	1.52E-8	7.95E-12	2.30E-12	2.69E-14	0.0	4.35E-21
9	0	29	0	0.00	0.00	1.29E-8	6.78E-12	1.96E-12	2.29E-14	0.0	3.71E-21
10	0	25	0	0.00	0.00	1.13E-8	5.92E-12	1.71E-12	2.00E-14	0.0	3.24E-21

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7c Rev 1 -continued | RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 12:00 to12:10

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	803	12	0.00	0.00	3.59E-7	1.89E-10	2.89E-11	6.12E-13	0.0	8.70E-20
1.2	0	612	9	0.00	0.00	2.74E-7	1.44E-10	2.20E-11	4.66E-13	0.0	6.63E-20
2	0	275	4	0.00	0.00	1.23E-7	6.48E-11	9.92E-12	2.10E-13	0.0	2.98E-20
3	0	146	2	0.00	0.00	6.53E-8	3.44E-11	5.26E-12	1.11E-13	0.0	1.58E-20
4	0	94	1	0.00	0.00	4.22E-8	2.22E-11	3.40E-12	7.19E-14	0.0	1.02E-20
5	0	68	1	0.00	0.00	3.05E-8	1.60E-11	2.45E-12	5.19E-14	0.0	7.38E-21
6	0	52	1	0.00	0.00	2.35E-8	1.24E-11	1.89E-12	4.00E-14	0.0	5.69E-21
7	0	42	1	0.00	0.00	1.90E-8	9.98E-12	1.53E-12	3.23E-14	0.0	4.59E-21
8	0	35	1	0.00	0.00	1.58E-8	8.32E-12	1.27E-12	2.69E-14	0.0	3.83E-21
9	0	30	0	0.00	0.00	1.35E-8	7.10E-12	1.09E-12	2.30E-14	0.0	3.27E-21
10	0	26	0	0.00	0.00	1.18E-8	6.20E-12	9.48E-13	2.00E-14	0.0	2.85E-21

Field Team Data for 12:10 to 12:20

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	1218	19	0.00	0.00	5.45E-7	2.87E-10	4.49E-11	9.23E-13	0.0	1.30E-19
1.2	1	928	14	0.00	0.00	4.15E-7	2.19E-10	3.42E-11	7.03E-13	0.0	9.89E-20
2	0	418	6	0.00	0.00	1.87E-7	9.84E-11	1.54E-11	3.17E-13	0.0	4.45E-20
3	0	221	3	0.00	0.00	9.90E-8	5.21E-11	8.16E-12	1.68E-13	0.0	2.36E-20
4	0	143	2	0.00	0.00	6.40E-8	3.37E-11	5.28E-12	1.09E-13	0.0	1.52E-20
5	0	103	2	0.00	0.00	4.62E-8	2.43E-11	3.81E-12	7.83E-14	0.0	1.10E-20
6	0	80	1	0.00	0.00	3.56E-8	1.87E-11	2.93E-12	6.03E-14	0.0	8.48E-21
7	0	64	1	0.00	0.00	2.88E-8	1.51E-11	2.37E-12	4.87E-14	0.0	6.85E-21
8	0	54	1	0.00	0.00	2.40E-8	1.26E-11	1.98E-12	4.06E-14	0.0	5.71E-21
9	0	46	1	0.00	0.00	2.04E-8	1.08E-11	1.69E-12	3.46E-14	0.0	4.87E-21
10	0	40	1	0.00	0.00	1.79E-8	9.40E-12	1.47E-12	3.02E-14	0.0	4.25E-21

Field Team Data for 12:20 to 12:30

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	1	1653	26	0.01	0.00	7.40E-7	3.89E-10	5.93E-11	1.25E-12	0.0	1.73E-19
1.2	1	1259	19	0.00	0.00	5.63E-7	2.97E-10	4.52E-11	9.50E-13	0.0	1.32E-19
2	0	567	9	0.00	0.00	2.54E-7	1.34E-10	2.03E-11	4.28E-13	0.0	5.93E-20
3	0	300	5	0.00	0.00	1.34E-7	7.08E-11	1.08E-11	2.27E-13	0.0	3.15E-20
4	0	194	3	0.00	0.00	8.69E-8	4.58E-11	6.97E-12	1.47E-13	0.0	2.03E-20
5	0	140	2	0.00	0.00	6.27E-8	3.30E-11	5.03E-12	1.06E-13	0.0	1.47E-20
6	0	108	2	0.00	0.00	4.83E-8	2.54E-11	3.87E-12	8.15E-14	0.0	1.13E-20
7	0	87	1	0.00	0.00	3.90E-8	2.05E-11	3.13E-12	6.58E-14	0.0	9.13E-21
8	0	73	1	0.00	0.00	3.25E-8	1.71E-11	2.61E-12	5.49E-14	0.0	7.62E-21
9	0	62	1	0.00	0.00	2.78E-8	1.46E-11	2.23E-12	4.68E-14	0.0	6.49E-21
10	0	54	1	0.00	0.00	2.42E-8	1.28E-11	1.94E-12	4.09E-14	0.0	5.67E-21

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
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SHEET NO. 7c Rev 1 -continued	RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center	
VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM	DRILL TIME 0:00 HOURS TO 6:30 HOURS	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO Field Team Data - Air Sample Results	

Field Team Data for 12:30 to 12:40

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	2	2114	33	0.01	0.00	9.46E-7	4.98E-10	7.34E-11	1.59E-12	0.0	2.18E-19
1.2	1	1611	25	0.00	0.00	7.21E-7	3.80E-10	5.59E-11	1.21E-12	0.0	1.66E-19
2	1	1088	17	0.00	0.00	4.87E-7	2.56E-10	3.78E-11	8.13E-13	0.0	1.10E-19
3	0	384	6	0.00	0.00	1.72E-7	9.06E-11	1.33E-11	2.88E-13	0.0	3.95E-20
4	0	248	4	0.00	0.00	1.11E-7	5.86E-11	8.62E-12	1.87E-13	0.0	2.56E-20
5	0	179	3	0.00	0.00	8.02E-8	4.22E-11	6.22E-12	1.35E-13	0.0	1.84E-20
6	0	138	2	0.00	0.00	6.18E-8	3.26E-11	4.79E-12	1.04E-13	0.0	1.42E-20
7	0	112	2	0.00	0.00	4.99E-8	2.63E-11	3.87E-12	8.38E-14	0.0	1.15E-20
8	0	93	1	0.00	0.00	4.16E-8	2.19E-11	3.23E-12	6.98E-14	0.0	9.58E-21
9	0	79	1	0.00	0.00	3.55E-8	1.87E-11	2.75E-12	5.96E-14	0.0	8.17E-21
10	0	69	1	0.00	0.00	3.10E-8	1.63E-11	2.40E-12	5.20E-14	0.0	7.13E-21

Field Team Data for 12:40 to 12:50

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	2	3172	49	0.01	0.00	1.42E-6	7.48E-10	1.06E-10	2.37E-12	0.0	3.21E-19
1.2	2	2417	37	0.01	0.00	1.08E-6	5.70E-10	8.04E-11	1.81E-12	0.0	2.45E-19
2	1	1311	20	0.00	0.00	5.87E-7	3.09E-10	4.37E-11	9.82E-13	0.0	1.31E-19
3	0	576	9	0.00	0.00	2.58E-7	1.36E-10	1.92E-11	4.31E-13	0.0	5.83E-20
4	0	373	6	0.00	0.00	1.67E-7	8.79E-11	1.24E-11	2.79E-13	0.0	3.77E-20
5	0	269	4	0.00	0.00	1.20E-7	6.34E-11	8.95E-12	2.01E-13	0.0	2.72E-20
6	0	207	3	0.00	0.00	9.27E-8	4.89E-11	6.90E-12	1.55E-13	0.0	2.10E-20
7	0	167	3	0.00	0.00	7.49E-8	3.95E-11	5.57E-12	1.25E-13	0.0	1.69E-20
8	0	140	2	0.00	0.00	6.25E-8	3.29E-11	4.64E-12	1.04E-13	0.0	1.41E-20
9	0	119	2	0.00	0.00	5.33E-8	2.81E-11	3.96E-12	8.89E-14	0.0	1.20E-20
10	0	104	2	0.00	0.00	4.65E-8	2.45E-11	3.46E-12	7.76E-14	0.0	1.05E-20

Field Team Data for 12:50 to 13:00

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	3	3825	58	0.01	0.00	1.71E-6	9.02E-10	1.22E-10	2.86E-12	0.0	3.80E-19
1.2	2	2914	44	0.01	0.00	1.30E-6	6.87E-10	9.30E-11	2.18E-12	0.0	2.90E-19
2	1	1311	20	0.00	0.00	5.87E-7	3.09E-10	4.18E-11	9.82E-13	0.0	1.30E-19
3	1	695	11	0.00	0.00	3.11E-7	1.64E-10	2.22E-11	5.20E-13	0.0	6.91E-20
4	0	449	7	0.00	0.00	2.01E-7	1.06E-10	1.43E-11	3.36E-13	0.0	4.47E-20
5	0	324	5	0.00	0.00	1.45E-7	7.65E-11	1.03E-11	2.43E-13	0.0	3.22E-20
6	0	250	4	0.00	0.00	1.12E-7	5.89E-11	7.97E-12	1.87E-13	0.0	2.48E-20
7	0	202	3	0.00	0.00	9.03E-8	4.76E-11	6.44E-12	1.51E-13	0.0	2.01E-20
8	0	168	3	0.00	0.00	7.53E-8	3.97E-11	5.37E-12	1.26E-13	0.0	1.67E-20
9	0	144	2	0.00	0.00	6.42E-8	3.39E-11	4.58E-12	1.07E-13	0.0	1.43E-20
10	0	125	2	0.00	0.00	5.61E-8	2.96E-11	4.00E-12	9.38E-14	0.0	1.25E-20

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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SHEET NO. 7c Rev 1 -continued | RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF REAL TIME: 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME: 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 13:00 to 13:10

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	4	4664	71	0.01	0.00	2.09E-6	1.10E-9	1.42E-10	3.45E-12	0.0	4.56E-19
1.2	3	3553	54	0.01	0.00	1.59E-6	8.39E-10	1.08E-10	2.63E-12	0.0	3.47E-19
2	1	1599	24	0.00	0.00	7.16E-7	3.77E-10	4.88E-11	1.18E-12	0.0	1.56E-19
3	1	847	13	0.00	0.00	3.79E-7	2.00E-10	2.59E-11	6.27E-13	0.0	8.28E-20
4	0	548	8	0.00	0.00	2.45E-7	1.29E-10	1.67E-11	4.06E-13	0.0	5.36E-20
5	0	395	6	0.00	0.00	1.77E-7	9.33E-11	1.21E-11	2.93E-13	0.0	3.86E-20
6	0	305	5	0.00	0.00	1.36E-7	7.19E-11	9.30E-12	2.26E-13	0.0	2.98E-20
7	0	246	4	0.00	0.00	1.10E-7	5.81E-11	7.51E-12	1.82E-13	0.0	2.41E-20
8	0	205	3	0.00	0.00	9.19E-8	4.84E-11	6.26E-12	1.52E-13	0.0	2.01E-20
9	0	175	3	0.00	0.00	7.83E-8	4.13E-11	5.34E-12	1.30E-13	0.0	1.71E-20
10	0	153	2	0.00	0.00	6.84E-8	3.61E-11	4.66E-12	1.13E-13	0.0	1.49E-20

Field Team Data for 13:10 to 13:20

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	4	5627	85	0.02	0.00	2.52E-6	1.33E-9	1.64E-10	4.14E-12	0.0	5.41E-19
1.2	3	4287	65	0.01	0.00	1.92E-6	1.01E-9	1.25E-10	3.16E-12	0.0	4.12E-19
2	1	1929	29	0.01	0.00	8.64E-7	4.55E-10	5.61E-11	1.42E-12	0.0	1.85E-19
3	1	1022	15	0.00	0.00	4.58E-7	2.41E-10	2.97E-11	7.53E-13	0.0	9.80E-20
4	0	661	10	0.00	0.00	2.96E-7	1.56E-10	1.92E-11	4.87E-13	0.0	6.34E-20
5	0	477	7	0.00	0.00	2.13E-7	1.13E-10	1.38E-11	3.51E-13	0.0	4.57E-20
6	0	368	6	0.00	0.00	1.65E-7	8.68E-11	1.06E-11	2.70E-13	0.0	3.52E-20
7	0	297	4	0.00	0.00	1.33E-7	7.01E-11	8.55E-12	2.18E-13	0.0	2.84E-20
8	0	248	4	0.00	0.00	1.11E-7	5.84E-11	7.12E-12	1.82E-13	0.0	2.37E-20
9	0	211	3	0.00	0.00	9.45E-8	4.98E-11	6.06E-12	1.55E-13	0.0	2.02E-20
10	0	184	3	0.00	0.00	8.25E-8	4.35E-11	5.28E-12	1.35E-13	0.0	1.76E-20

Field Team Data for 13:20 to 13:30

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	5	6840	103	0.02	0.00	3.06E-6	1.62E-9	1.91E-10	5.01E-12	0.0	6.46E-19
1.2	4	5211	78	0.02	0.00	2.33E-6	1.23E-9	1.45E-10	3.82E-12	0.0	4.92E-19
2	2	2345	35	0.01	0.00	1.05E-6	5.54E-10	6.54E-11	1.72E-12	0.0	2.21E-19
3	1	1243	19	0.00	0.00	5.56E-7	2.94E-10	3.47E-11	9.11E-13	0.0	1.17E-19
4	1	804	12	0.00	0.00	3.60E-7	1.90E-10	2.24E-11	5.89E-13	0.0	7.59E-20
5	0	580	9	0.00	0.00	2.60E-7	1.37E-10	1.62E-11	4.25E-13	0.0	5.47E-20
6	0	447	7	0.00	0.00	2.00E-7	1.06E-10	1.25E-11	3.28E-13	0.0	4.22E-20
7	0	361	5	0.00	0.00	1.62E-7	8.52E-11	1.01E-11	2.65E-13	0.0	3.41E-20
8	0	301	5	0.00	0.00	1.35E-7	7.11E-11	8.39E-12	2.21E-13	0.0	2.84E-20
9	0	257	4	0.00	0.00	1.15E-7	6.06E-11	7.16E-12	1.88E-13	0.0	2.42E-20
10	0	184	3	0.00	0.00	8.25E-8	4.35E-11	5.14E-12	1.36E-13	0.0	1.77E-20

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CONTROLLER INFORMATION
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SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
7c Rev 1 -continued	Field Team, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME					DRILL TIME			
8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	0:00 HOURS	TO	6:30	HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Field Team Data - Air Sample Results

Field Team Data for 13:30 to 13:40

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	6	8362	125	0.03	0.00	3.74E-6	1.98E-9	2.22E-10	6.10E-12	0.0	7.76E-19
1.2	5	6371	95	0.02	0.00	2.85E-6	1.51E-9	1.70E-10	4.65E-12	0.0	5.91E-19
2	2	2867	43	0.01	0.00	1.28E-6	6.77E-10	7.63E-11	2.09E-12	0.0	2.66E-19
3	1	1520	23	0.00	0.00	6.80E-7	3.59E-10	4.04E-11	1.11E-12	0.0	1.41E-19
4	1	983	15	0.00	0.00	4.40E-7	2.32E-10	2.61E-11	7.17E-13	0.0	9.12E-20
5	1	709	11	0.00	0.00	3.17E-7	1.67E-10	1.89E-11	5.17E-13	0.0	6.58E-20
6	0	546	8	0.00	0.00	2.45E-7	1.29E-10	1.45E-11	3.99E-13	0.0	5.07E-20
7	0	441	7	0.00	0.00	1.98E-7	1.04E-10	1.17E-11	3.22E-13	0.0	4.10E-20
8	0	368	6	0.00	0.00	1.65E-7	8.69E-11	9.79E-12	2.68E-13	0.0	3.42E-20
9	0	314	5	0.00	0.00	1.40E-7	7.41E-11	8.35E-12	2.29E-13	0.0	2.91E-20
10	0	274	4	0.00	0.00	1.23E-7	6.47E-11	7.29E-12	2.00E-13	0.0	2.54E-20

Field Team Data for 13:40 to 13:50

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	8	10537	157	0.03	0.00	4.72E-6	2.49E-9	2.68E-10	7.65E-12	0.0	9.61E-19
1.2	6	8028	120	0.02	0.00	3.59E-6	1.90E-9	2.04E-10	5.83E-12	0.0	7.33E-19
2	3	3613	54	0.01	0.00	1.62E-6	8.54E-10	9.18E-11	2.62E-12	0.0	3.30E-19
3	1	1915	29	0.01	0.00	8.57E-7	4.53E-10	4.86E-11	1.39E-12	0.0	1.75E-19
4	1	1238	18	0.00	0.00	5.54E-7	2.93E-10	3.15E-11	8.99E-13	0.0	1.13E-19
5	1	893	13	0.00	0.00	4.00E-7	2.11E-10	2.27E-11	6.48E-13	0.0	8.15E-20
6	1	688	10	0.00	0.00	3.08E-7	1.63E-10	1.75E-11	5.00E-13	0.0	6.28E-20
7	0	556	8	0.00	0.00	2.49E-7	1.31E-10	1.41E-11	4.04E-13	0.0	5.07E-20
8	0	464	7	0.00	0.00	2.08E-7	1.10E-10	1.18E-11	3.37E-13	0.0	4.23E-20
9	0	395	6	0.00	0.00	1.77E-7	9.35E-11	1.00E-11	2.87E-13	0.0	3.61E-20
10	0	345	5	0.00	0.00	1.55E-7	8.16E-11	8.77E-12	2.51E-13	0.0	3.15E-20

Field Team Data for 13:50 to 14:00

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	11	14390	213	0.04	0.00	6.44E-6	3.40E-9	3.49E-10	1.04E-11	0.0	1.29E-18
1.2	8	10964	163	0.03	0.00	4.91E-6	2.59E-9	2.66E-10	7.92E-12	0.0	9.83E-19
2	4	4934	73	0.01	0.00	2.21E-6	1.17E-9	1.20E-10	3.56E-12	0.0	4.43E-19
3	2	2615	39	0.01	0.00	1.17E-6	6.18E-10	6.34E-11	1.89E-12	0.0	2.35E-19
4	1	1691	25	0.01	0.00	7.57E-7	4.00E-10	4.10E-11	1.22E-12	0.0	1.52E-19
5	1	1220	18	0.00	0.00	5.46E-7	2.88E-10	2.96E-11	8.81E-13	0.0	1.09E-19
6	1	940	14	0.00	0.00	4.21E-7	2.22E-10	2.28E-11	6.79E-13	0.0	8.43E-20
7	1	759	11	0.00	0.00	3.40E-7	1.80E-10	1.84E-11	5.49E-13	0.0	6.81E-20
8	0	633	9	0.00	0.00	2.84E-7	1.50E-10	1.53E-11	4.57E-13	0.0	5.68E-20
9	0	540	8	0.00	0.00	2.42E-7	1.28E-10	1.31E-11	3.90E-13	0.0	4.84E-20
10	0	471	7	0.00	0.00	2.11E-7	1.11E-10	1.14E-11	3.41E-13	0.0	4.23E-20

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7c Rev 1 -continued | RESPONSIBLE CONTROLLER (LOCATION) Field Team, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME ☐ AM 8:00 TO ☐ AM 14:30 ☐ PM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 14:00 to 14:10

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	13	17902	265	0.05	0.00	8.02E-6	4.23E-9	4.16E-10	1.29E-11	0.0	1.58E-18
1.2	10	13640	202	0.04	0.00	6.11E-6	3.23E-9	3.17E-10	9.81E-12	0.0	1.20E-18
2	5	6138	91	0.02	0.00	2.75E-6	1.45E-9	1.43E-10	4.41E-12	0.0	5.41E-19
3	2	3253	48	0.01	0.00	1.46E-6	7.69E-10	7.56E-11	2.34E-12	0.0	2.87E-19
4	2	2104	31	0.01	0.00	9.42E-7	4.98E-10	4.89E-11	1.51E-12	0.0	1.85E-19
5	1	1517	22	0.00	0.00	6.79E-7	3.59E-10	3.53E-11	1.09E-12	0.0	1.34E-19
6	1	1170	17	0.00	0.00	5.24E-7	2.77E-10	2.72E-11	8.41E-13	0.0	1.03E-19
7	1	945	14	0.00	0.00	4.23E-7	2.23E-10	2.20E-11	6.79E-13	0.0	8.33E-20
8	1	771	11	0.00	0.00	3.45E-7	1.82E-10	1.79E-11	5.52E-13	0.0	6.69E-20
9	0	658	10	0.00	0.00	2.95E-7	1.56E-10	1.53E-11	4.71E-13	0.0	5.70E-20
10	0	587	9	0.00	0.00	2.63E-7	1.39E-10	1.36E-11	4.22E-13	0.0	5.17E-20

Field Team Data for 14:10 to 14:20

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	13	17528	258	0.05	0.00	7.85E-6	4.15E-9	3.85E-10	1.25E-11	0.0	1.52E-18
1.2	10	13354	196	0.04	0.00	5.98E-6	3.16E-9	2.94E-10	9.56E-12	0.0	1.16E-18
2	4	6009	88	0.02	0.00	2.69E-6	1.42E-9	1.32E-10	4.30E-12	0.0	5.21E-19
3	2	3185	47	0.01	0.00	1.43E-6	7.54E-10	7.00E-11	2.28E-12	0.0	2.76E-19
4	2	2060	30	0.01	0.00	9.22E-7	4.87E-10	4.53E-11	1.47E-12	0.0	1.78E-19
5	1	1486	22	0.00	0.00	6.65E-7	3.52E-10	3.27E-11	1.06E-12	0.0	1.29E-19
6	1	1145	17	0.00	0.00	5.13E-7	2.71E-10	2.52E-11	8.19E-13	0.0	9.92E-20
7	1	925	14	0.00	0.00	4.14E-7	2.19E-10	2.03E-11	6.62E-13	0.0	8.01E-20
8	1	771	11	0.00	0.00	3.45E-7	1.82E-10	1.70E-11	5.52E-13	0.0	6.68E-20
9	0	658	10	0.00	0.00	2.95E-7	1.56E-10	1.45E-11	4.71E-13	0.0	5.70E-20
10	0	574	8	0.00	0.00	2.57E-7	1.36E-10	1.26E-11	4.11E-13	0.0	4.98E-20

Field Team Data for 14:20 to 14:30

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridge mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
1	13	17154	251	0.05	0.00	7.68E-6	4.06E-9	3.57E-10	1.22E-11	0.0	1.46E-18
1.2	10	13070	191	0.04	0.00	5.85E-6	3.09E-9	2.72E-10	9.31E-12	0.0	1.11E-18
2	4	5881	86	0.02	0.00	2.63E-6	1.39E-9	1.22E-10	4.19E-12	0.0	5.01E-19
3	2	3117	46	0.01	0.00	1.40E-6	7.38E-10	6.48E-11	2.22E-12	0.0	2.65E-19
4	1	2016	30	0.01	0.00	9.03E-7	4.77E-10	4.19E-11	1.44E-12	0.0	1.72E-19
5	1	1454	21	0.00	0.00	6.51E-7	3.44E-10	3.02E-11	1.04E-12	0.0	1.24E-19
6	1	1121	16	0.00	0.00	5.02E-7	2.65E-10	2.33E-11	7.98E-13	0.0	9.54E-20
7	1	905	13	0.00	0.00	4.05E-7	2.14E-10	1.88E-11	6.45E-13	0.0	7.71E-20
8	1	755	11	0.00	0.00	3.38E-7	1.79E-10	1.57E-11	5.37E-13	0.0	6.43E-20
9	0	644	9	0.00	0.00	2.88E-7	1.52E-10	1.34E-11	4.58E-13	0.0	5.48E-20
10	0	562	8	0.00	0.00	2.52E-7	1.33E-10	1.17E-11	4.00E-13	0.0	4.79E-20

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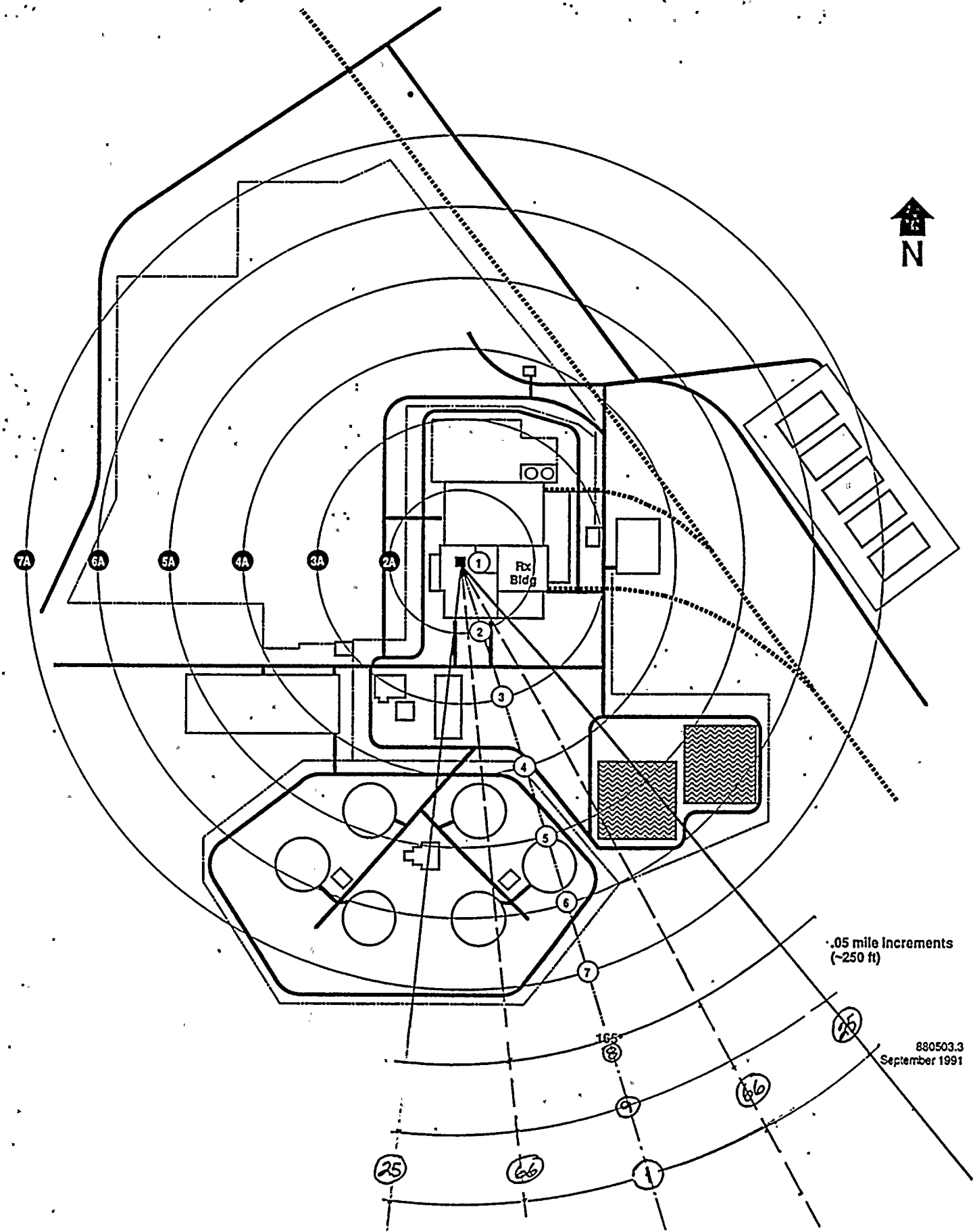
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7d Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 9:30 to 10:10

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	2	1693	30	0.01	0.00	7.6E-07	4.0E-10	1.4E-10	1.4E-12	0.0	2.2E-19
0.2	2	1949	35	0.01	0.00	8.7E-07	4.6E-10	1.6E-10	1.6E-12	0.0	2.6E-19
0.3	2	2268	41	0.01	0.00	1.0E-06	5.3E-10	1.8E-10	1.8E-12	0.0	3.0E-19
0.4	2	2188	39	0.01	0.00	9.8E-07	5.1E-10	1.8E-10	1.8E-12	0.0	2.9E-19
0.5	2	1901	34	0.01	0.00	8.5E-07	4.4E-10	1.5E-10	1.5E-12	0.0	2.5E-19
0.6	1	1613	29	0.01	0.00	7.2E-07	3.8E-10	1.3E-10	1.3E-12	0.0	2.1E-19
0.7	1	1322	24	0.00	0.00	5.9E-07	3.1E-10	1.1E-10	1.1E-12	0.0	1.7E-19
0.8	1	1144	21	0.00	0.00	5.1E-07	2.7E-10	9.3E-11	9.2E-13	0.0	1.5E-19
0.9	1	974	29	0.01	0.00	4.3E-07	2.3E-10	8.0E-11	7.8E-13	0.0	1.3E-19
1.0	1	839	24	0.00	0.00	3.7E-07	2.0E-10	6.9E-11	6.8E-13	0.0	1.1E-19
1.2	1	639	21	0.00	0.00	2.9E-07	1.5E-10	5.3E-11	5.1E-13	0.0	8.5E-20

Field Team Data for 10:10 to 10:20

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	1	1652	29	0.01	0.00	7.4E-07	3.9E-10	1.3E-10	1.3E-12	0.0	2.1E-19
0.2	2	1901	34	0.01	0.00	8.5E-07	4.5E-10	1.5E-10	1.5E-12	0.0	2.5E-19
0.3	2	2213	39	0.01	0.00	9.9E-07	5.2E-10	1.7E-10	1.8E-12	0.0	2.9E-19
0.4	2	2135	38	0.01	0.00	9.5E-07	5.0E-10	1.6E-10	1.7E-12	0.0	2.8E-19
0.5	2	1855	33	0.01	0.00	8.3E-07	4.3E-10	1.4E-10	1.5E-12	0.0	2.4E-19
0.6	1	1574	28	0.01	0.00	7.0E-07	3.7E-10	1.2E-10	1.3E-12	0.0	2.0E-19
0.7	1	1278	23	0.00	0.00	5.7E-07	3.0E-10	9.8E-11	1.0E-12	0.0	1.6E-19
0.8	1	1116	20	0.00	0.00	5.0E-07	2.6E-10	8.6E-11	8.9E-13	0.0	1.5E-19
0.9	1	951	17	0.00	0.00	4.2E-07	2.2E-10	7.3E-11	7.6E-13	0.0	1.2E-19
1.0	1	818	14	0.00	0.00	3.7E-07	1.9E-10	6.3E-11	6.5E-13	0.0	1.1E-19
1.2	1	623	11	0.00	0.00	2.8E-07	1.5E-10	4.8E-11	5.0E-13	0.0	8.1E-20

Field Team Data for 10:20 to 10:30

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	1	1557	27	0.01	0.00	7.0E-07	3.6E-10	1.1E-10	1.2E-12	0.0	2.0E-19
0.2	2	1839	32	0.01	0.00	8.2E-07	4.3E-10	1.3E-10	1.5E-12	0.0	2.4E-19
0.3	2	2140	37	0.01	0.00	9.6E-07	5.0E-10	1.5E-10	1.7E-12	0.0	2.7E-19
0.4	2	2065	36	0.01	0.00	9.2E-07	4.8E-10	1.5E-10	1.6E-12	0.0	2.6E-19
0.5	2	1793	31	0.01	0.00	8.0E-07	4.2E-10	1.3E-10	1.4E-12	0.0	2.3E-19
0.6	1	1522	27	0.01	0.00	6.8E-07	3.6E-10	1.1E-10	1.2E-12	0.0	1.9E-19
0.7	1	1245	22	0.00	0.00	5.6E-07	2.9E-10	9.0E-11	9.9E-13	0.0	1.6E-19
0.8	1	1079	19	0.00	0.00	4.8E-07	2.5E-10	7.8E-11	8.6E-13	0.0	1.4E-19
9.0	1	919	16	0.00	0.00	4.1E-07	2.2E-10	6.6E-11	7.3E-13	0.0	1.2E-19
1.0	1	791	14	0.00	0.00	3.5E-07	1.9E-10	5.7E-11	6.3E-13	0.0	1.0E-19
1.2	1	603	11	0.00	0.00	2.7E-07	1.4E-10	4.3E-11	4.8E-13	0.0	7.7E-20

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7d Rev.1- cont | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 10:30 to 12:00

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	1	1242	22	0.00	0.00	5.5E-07	3.0E-10	8.6E-11	9.7E-13	0.0	1.4E-19
0.2	2	1791	31	0.01	0.00	8.0E-07	4.2E-10	1.2E-10	1.4E-12	0.0	2.3E-19
0.3	2	2085	36	0.01	0.00	9.3E-07	4.9E-10	1.4E-10	1.7E-12	0.0	2.7E-19
0.4	2	2012	35	0.01	0.00	9.0E-07	4.7E-10	1.4E-10	1.6E-12	0.0	2.6E-19
0.5	2	1747	30	0.01	0.00	7.8E-07	4.1E-10	1.2E-10	1.4E-12	0.0	2.2E-19
0.6	1	1483	25	0.01	0.00	6.6E-07	3.5E-10	1.0E-10	1.2E-12	0.0	1.9E-19
0.7	1	1213	21	0.00	0.00	5.4E-07	2.8E-10	8.2E-11	9.6E-13	0.0	1.5E-19
0.8	1	1051	18	0.00	0.00	4.7E-07	2.5E-10	7.1E-11	8.3E-13	0.0	1.3E-19
0.9	1	896	15	0.00	0.00	4.0E-07	2.1E-10	6.1E-11	7.1E-13	0.0	1.1E-19
1.0	1	771	13	0.00	0.00	3.4E-07	1.8E-10	5.2E-11	6.1E-13	0.0	9.9E-20
1.2	1	587	10	0.00	0.00	2.6E-07	1.4E-10	4.0E-11	4.7E-13	0.0	7.5E-20

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7d Rev.1- cont | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 12:00 to12:10

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	1	1621	25	0.01	0.00	7.3E-07	3.8E-10	5.8E-11	1.2E-12	0.0	1.8E-19
0.2	1	1866	29	0.01	0.00	8.3E-07	4.4E-10	6.7E-11	1.4E-12	0.0	2.0E-19
0.3	2	2172	34	0.01	0.00	9.7E-07	5.1E-10	7.8E-11	1.7E-12	0.0	2.4E-19
0.4	2	2095	32	0.01	0.00	9.4E-07	4.9E-10	7.5E-11	1.6E-12	0.0	2.3E-19
0.5	1	1820	28	0.01	0.00	8.1E-07	4.3E-10	6.6E-11	1.4E-12	0.0	2.0E-19
0.6	1	1545	24	0.00	0.00	6.9E-07	3.6E-10	5.6E-11	1.2E-12	0.0	1.7E-19
0.7	1	1297	20	0.00	0.00	5.8E-07	3.1E-10	4.7E-11	9.9E-13	0.0	1.4E-19
0.8	1	1095	17	0.00	0.00	4.9E-07	2.6E-10	3.9E-11	8.3E-13	0.0	1.2E-19
0.9	1	933	14	0.00	0.00	4.2E-07	2.2E-10	3.4E-11	7.1E-13	0.0	1.0E-19
1.0	1	803	12	0.00	0.00	3.6E-07	1.9E-10	2.9E-11	6.1E-13	0.0	8.7E-20
1.2	0	612	9	0.00	0.00	2.7E-07	1.4E-10	2.2E-11	4.7E-13	0.0	6.6E-20

Field Team Data for 12:10 to12:20

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	2	2459	38	0.01	0.00	1.1E-06	5.8E-10	9.1E-11	1.9E-12	0.0	2.6E-19
0.2	2	2830	44	0.01	0.00	1.3E-06	6.7E-10	1.0E-10	2.1E-12	0.0	3.0E-19
0.3	3	3294	51	0.01	0.00	1.5E-06	7.8E-10	1.2E-10	2.5E-12	0.0	3.5E-19
0.4	2	3178	49	0.01	0.00	1.4E-06	7.5E-10	1.2E-10	2.4E-12	0.0	3.4E-19
0.5	2	2761	43	0.01	0.00	1.2E-06	6.5E-10	1.0E-10	2.1E-12	0.0	2.9E-19
0.6	2	2343	36	0.01	0.00	1.0E-06	5.5E-10	8.6E-11	1.8E-12	0.0	2.5E-19
0.7	2	1967	30	0.01	0.00	8.8E-07	4.6E-10	7.3E-11	1.5E-12	0.0	2.1E-19
0.8	1	1661	26	0.01	0.00	7.4E-07	3.9E-10	6.1E-11	1.3E-12	0.0	1.8E-19
0.9	1	1415	22	0.00	0.00	6.3E-07	3.3E-10	5.2E-11	1.1E-12	0.0	1.5E-19
1.0	1	1218	19	0.00	0.00	5.4E-07	2.9E-10	4.5E-11	9.2E-13	0.0	1.3E-19
1.2	1	928	14	0.00	0.00	4.2E-07	2.2E-10	3.4E-11	7.0E-13	0.0	9.9E-20

Field Team Data for 12:20 to 12:30

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	3	3337	52	0.01	0.00	1.5E-06	7.9E-10	1.2E-10	2.5E-12	0.0	3.5E-19
0.2	3	3841	59	0.01	0.00	1.7E-06	9.1E-10	1.4E-10	2.9E-12	0.0	4.0E-19
0.3	3	4470	69	0.01	0.00	2.0E-06	1.1E-09	1.6E-10	3.4E-12	0.0	4.7E-19
0.4	3	4313	67	0.01	0.00	1.9E-06	1.0E-09	1.5E-10	3.3E-12	0.0	4.5E-19
0.5	3	3746	58	0.01	0.00	1.7E-06	8.8E-10	1.3E-10	2.8E-12	0.0	3.9E-19
0.6	2	3180	49	0.01	0.00	1.4E-06	7.5E-10	1.1E-10	2.4E-12	0.0	3.3E-19
0.7	2	2670	41	0.01	0.00	1.2E-06	6.3E-10	9.6E-11	2.0E-12	0.0	2.8E-19
0.8	2	2254	35	0.01	0.00	1.0E-06	5.3E-10	8.1E-11	1.7E-12	0.0	2.4E-19
0.9	1	1920	30	0.01	0.00	8.6E-07	4.5E-10	6.9E-11	1.4E-12	0.0	2.0E-19
1.0	1	1653	26	0.01	0.00	7.4E-07	3.9E-10	5.9E-11	1.2E-12	0.0	1.7E-19
1.2	1	1259	19	0.00	0.00	5.6E-07	3.0E-10	4.5E-11	9.5E-13	0.0	1.3E-19

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SHEET NO. 7d Rev.1- cont | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 12:30 to 12:40

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	3	4269	66	0.01	0.00	1.9E-06	1.0E-09	1.5E-10	3.2E-12	0.0	4.4E-19
0.2	4	4913	76	0.02	0.00	2.2E-06	1.2E-09	1.7E-10	3.7E-12	0.0	5.1E-19
0.3	7	8580	132	0.03	0.00	3.8E-06	2.0E-09	3.0E-10	6.4E-12	0.0	8.7E-19
0.4	4	5518	85	0.02	0.00	2.5E-06	1.3E-09	1.9E-10	4.1E-12	0.0	5.7E-19
0.5	4	4793	74	0.01	0.00	2.1E-06	1.1E-09	1.7E-10	3.6E-12	0.0	4.9E-19
0.6	3	4068	63	0.01	0.00	1.8E-06	9.6E-10	1.4E-10	3.1E-12	0.0	4.2E-19
0.7	3	3415	53	0.01	0.00	1.5E-06	8.1E-10	1.2E-10	2.6E-12	0.0	3.5E-19
0.8	2	2884	44	0.01	0.00	1.3E-06	6.8E-10	1.0E-10	2.2E-12	0.0	3.0E-19
0.9	2	2457	38	0.01	0.00	1.1E-06	5.8E-10	8.5E-11	1.8E-12	0.0	2.5E-19
1.0	2	2114	33	0.01	0.00	9.5E-07	5.0E-10	7.3E-11	1.6E-12	0.0	2.2E-19
1.2	1	1611	25	0.00	0.00	7.2E-07	3.8E-10	5.6E-11	1.2E-12	0.0	1.7E-19

Field Team Data for 12:40 to 12:50

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	5	6404	98	0.02	0.00	2.9E-06	1.5E-09	2.1E-10	4.8E-12	0.0	6.5E-19
0.2	6	7371	113	0.02	0.00	3.3E-06	1.7E-09	2.5E-10	5.5E-12	0.0	7.5E-19
0.3	8	10346	158	0.03	0.00	4.6E-06	2.4E-09	3.4E-10	7.7E-12	0.0	1.0E-18
0.4	6	8277	127	0.03	0.00	3.7E-06	2.0E-09	2.8E-10	6.2E-12	0.0	8.4E-19
0.5	6	7190	110	0.02	0.00	3.2E-06	1.7E-09	2.4E-10	5.4E-12	0.0	7.3E-19
0.6	5	6102	93	0.02	0.00	2.7E-06	1.4E-09	2.0E-10	4.6E-12	0.0	6.2E-19
0.7	4	5123	78	0.02	0.00	2.3E-06	1.2E-09	1.7E-10	3.8E-12	0.0	5.2E-19
0.8	3	4326	66	0.01	0.00	1.9E-06	1.0E-09	1.4E-10	3.2E-12	0.0	4.4E-19
0.9	3	3685	56	0.01	0.00	1.6E-06	8.7E-10	1.2E-10	2.8E-12	0.0	3.7E-19
1.0	2	3172	49	0.01	0.00	1.4E-06	7.5E-10	1.1E-10	2.4E-12	0.0	3.2E-19
1.2	2	2417	37	0.01	0.00	1.1E-06	5.7E-10	8.0E-11	1.8E-12	0.0	2.4E-19

Field Team Data for 12:50 to 13:00

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	6	7722	118	0.02	0.00	3.5E-06	1.8E-09	2.5E-10	5.8E-12	0.0	7.7E-19
0.2	7	8888	135	0.03	0.00	4.0E-06	2.1E-09	2.8E-10	6.7E-12	0.0	8.8E-19
0.3	8	10345	158	0.03	0.00	4.6E-06	2.4E-09	3.3E-10	7.7E-12	0.0	1.0E-18
0.4	8	9981	152	0.03	0.00	4.5E-06	2.4E-09	3.2E-10	7.5E-12	0.0	9.9E-19
0.5	7	8669	132	0.03	0.00	3.9E-06	2.0E-09	2.8E-10	6.5E-12	0.0	8.6E-19
0.6	6	7358	112	0.02	0.00	3.3E-06	1.7E-09	2.3E-10	5.5E-12	0.0	7.3E-19
0.7	5	6178	94	0.02	0.00	2.8E-06	1.5E-09	2.0E-10	4.6E-12	0.0	6.1E-19
0.8	4	5216	79	0.02	0.00	2.3E-06	1.2E-09	1.7E-10	3.9E-12	0.0	5.2E-19
0.9	3	4444	68	0.01	0.00	2.0E-06	1.0E-09	1.4E-10	3.3E-12	0.0	4.4E-19
1.0	3	3825	58	0.01	0.00	1.7E-06	9.0E-10	1.2E-10	2.9E-12	0.0	3.8E-19
1.2	2	2914	44	0.01	0.00	1.3E-06	6.9E-10	9.3E-11	2.2E-12	0.0	2.9E-19

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ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 13:00 to 13:10

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	7	9417	143	0.03	0.00	4.2E-06	2.2E-09	2.9E-10	7.0E-12	0.0	9.2E-19
0.2	8	10838	164	0.03	0.00	4.9E-06	2.6E-09	3.3E-10	8.0E-12	0.0	1.1E-18
0.3	10	12615	191	0.04	0.00	5.6E-06	3.0E-09	3.8E-10	9.3E-12	0.0	1.2E-18
0.4	9	12170	185	0.04	0.00	5.4E-06	2.9E-09	3.7E-10	9.0E-12	0.0	1.2E-18
0.5	8	10571	160	0.03	0.00	4.7E-06	2.5E-09	3.2E-10	7.8E-12	0.0	1.0E-18
0.6	7	8972	136	0.03	0.00	4.0E-06	2.1E-09	2.7E-10	6.6E-12	0.0	8.8E-19
0.7	6	7533	114	0.02	0.00	3.4E-06	1.8E-09	2.3E-10	5.6E-12	0.0	7.4E-19
0.8	5	6361	96	0.02	0.00	2.8E-06	1.5E-09	1.9E-10	4.7E-12	0.0	6.2E-19
0.9	4	5419	82	0.02	0.00	2.4E-06	1.3E-09	1.7E-10	4.0E-12	0.0	5.3E-19
1.0	4	4664	71	0.01	0.00	2.1E-06	1.1E-09	1.4E-10	3.5E-12	0.0	4.6E-19
1.2	3	3553	54	0.01	0.00	1.6E-06	8.4E-10	1.1E-10	2.6E-12	0.0	3.5E-19

Field Team Data for 13:10 to 13:20

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	9	11361	171	0.03	0.00	5.1E-06	2.7E-09	3.3E-10	8.4E-12	0.0	1.1E-18
0.2	10	13076	197	0.04	0.00	5.9E-06	3.1E-09	3.8E-10	9.6E-12	0.0	1.3E-18
0.3	11	15219	230	0.05	0.00	6.8E-06	3.6E-09	4.4E-10	1.1E-11	0.0	1.5E-18
0.4	11	14683	221	0.04	0.00	6.6E-06	3.5E-09	4.3E-10	1.1E-11	0.0	1.4E-18
0.5	10	12754	192	0.04	0.00	5.7E-06	3.0E-09	3.7E-10	9.4E-12	0.0	1.2E-18
0.6	8	10825	163	0.03	0.00	4.8E-06	2.6E-09	3.1E-10	8.0E-12	0.0	1.0E-18
0.7	7	9089	137	0.03	0.00	4.1E-06	2.1E-09	2.6E-10	6.7E-12	0.0	8.7E-19
0.8	6	7674	116	0.02	0.00	3.4E-06	1.8E-09	2.2E-10	5.6E-12	0.0	7.3E-19
0.9	5	6538	98	0.02	0.00	2.9E-06	1.5E-09	1.9E-10	4.8E-12	0.0	6.2E-19
1.0	4	5627	85	0.02	0.00	2.5E-06	1.3E-09	1.6E-10	4.1E-12	0.0	5.4E-19
1.2	3	4287	65	0.01	0.00	1.9E-06	1.0E-09	1.2E-10	3.2E-12	0.0	4.1E-19

Field Team Data for 13:20 to 13:30

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	10	13810	207	0.04	0.00	6.2E-06	3.3E-09	3.9E-10	1.0E-11	0.0	1.3E-18
0.2	12	15895	239	0.05	0.00	7.1E-06	3.8E-09	4.4E-10	1.2E-11	0.0	1.5E-18
0.3	14	18500	278	0.06	0.00	8.3E-06	4.4E-09	5.2E-10	1.4E-11	0.0	1.7E-18
0.4	13	17849	268	0.05	0.00	8.0E-06	4.2E-09	5.0E-10	1.3E-11	0.0	1.7E-18
0.5	12	15504	233	0.05	0.00	6.9E-06	3.7E-09	4.3E-10	1.1E-11	0.0	1.5E-18
0.6	10	13159	198	0.04	0.00	5.9E-06	3.1E-09	3.7E-10	9.6E-12	0.0	1.2E-18
0.7	8	11048	166	0.03	0.00	4.9E-06	2.6E-09	3.1E-10	8.1E-12	0.0	1.0E-18
0.8	7	9328	140	0.03	0.00	4.2E-06	2.2E-09	2.6E-10	6.8E-12	0.0	8.8E-19
0.9	6	7947	119	0.02	0.00	3.6E-06	1.9E-09	2.2E-10	5.8E-12	0.0	7.5E-19
1.0	5	6840	103	0.02	0.00	3.1E-06	1.6E-09	1.9E-10	5.0E-12	0.0	6.5E-19
1.2	3	4287	64	0.01	0.00	1.9E-06	1.0E-09	1.2E-10	3.2E-12	0.0	4.1E-19

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ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 13:30 to 13:40

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	13	16883	252	0.05	0.00	7.6E-06	4.0E-09	4.5E-10	1.2E-11	0.0	1.6E-18
0.2	15	19432	291	0.06	0.00	8.7E-06	4.6E-09	5.2E-10	1.4E-11	0.0	1.8E-18
0.3	17	22617	338	0.07	0.00	1.0E-05	5.3E-09	6.0E-10	1.6E-11	0.0	2.1E-18
0.4	16	21821	326	0.07	0.00	9.8E-06	5.2E-09	5.8E-10	1.6E-11	0.0	2.0E-18
0.5	14	18954	283	0.06	0.00	8.5E-06	4.5E-09	5.0E-10	1.4E-11	0.0	1.8E-18
0.6	12	16087	241	0.05	0.00	7.2E-06	3.8E-09	4.3E-10	1.2E-11	0.0	1.5E-18
0.7	10	13507	202	0.04	0.00	6.0E-06	3.2E-09	3.6E-10	9.9E-12	0.0	1.3E-18
0.8	9	11404	171	0.03	0.00	5.1E-06	2.7E-09	3.0E-10	8.3E-12	0.0	1.1E-18
0.9	7	9716	145	0.03	0.00	4.3E-06	2.3E-09	2.6E-10	7.1E-12	0.0	9.0E-19
1.0	6	8362	125	0.03	0.00	3.7E-06	2.0E-09	2.2E-10	6.1E-12	0.0	7.8E-19
1.2	5	6371	95	0.02	0.00	2.9E-06	1.5E-09	1.7E-10	4.6E-12	0.0	5.9E-19

Field Team Data for 13:40 to 13:50

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	16	21275	317	0.06	0.00	9.5E-06	5.0E-09	5.4E-10	1.5E-11	0.0	1.9E-18
0.2	18	24487	365	0.07	0.00	1.1E-05	5.8E-09	6.2E-10	1.8E-11	0.0	2.2E-18
0.3	21	28501	424	0.08	0.00	1.3E-05	6.7E-09	7.2E-10	2.1E-11	0.0	2.6E-18
0.4	20	27497	409	0.08	0.00	1.2E-05	6.5E-09	7.0E-10	2.0E-11	0.0	2.5E-18
0.5	18	23885	356	0.07	0.00	1.1E-05	5.6E-09	6.1E-10	1.7E-11	0.0	2.2E-18
0.6	15	20272	302	0.06	0.00	9.1E-06	4.8E-09	5.2E-10	1.5E-11	0.0	1.8E-18
0.7	13	17020	253	0.05	0.00	7.6E-06	4.0E-09	4.3E-10	1.2E-11	0.0	1.6E-18
0.8	11	14371	214	0.04	0.00	6.4E-06	3.4E-09	3.7E-10	1.0E-11	0.0	1.3E-18
0.9	9	12243	182	0.04	0.00	5.5E-06	2.9E-09	3.1E-10	8.9E-12	0.0	1.1E-18
1.0	8	10537	157	0.03	0.00	4.7E-06	2.5E-09	2.7E-10	7.6E-12	0.0	9.6E-19
1.2	6	8028	120	0.02	0.00	3.6E-06	1.9E-09	2.0E-10	5.8E-12	0.0	7.3E-19

Field Team Data for 13:50 to 14:00

Distance Miles	Filter iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	22	29055	431	0.09	0.00	1.3E-05	6.9E-09	7.0E-10	2.1E-11	0.0	2.6E-18
0.2	25	33440	496	0.10	0.00	1.5E-05	7.9E-09	8.1E-10	2.4E-11	0.0	3.0E-18
0.3	29	38922	577	0.12	0.01	1.7E-05	9.2E-09	9.4E-10	2.8E-11	0.0	3.5E-18
0.4	28	37552	557	0.11	0.01	1.7E-05	8.9E-09	9.1E-10	2.7E-11	0.0	3.4E-18
0.5	24	32618	484	0.10	0.00	1.5E-05	7.7E-09	7.9E-10	2.4E-11	0.0	2.9E-18
0.6	21	27684	411	0.08	0.00	1.2E-05	6.5E-09	6.7E-10	2.0E-11	0.0	2.5E-18
0.7	17	23244	345	0.07	0.00	1.0E-05	5.5E-09	5.6E-10	1.7E-11	0.0	2.1E-18
0.8	15	19626	291	0.06	0.00	8.8E-06	4.6E-09	4.8E-10	1.4E-11	0.0	1.8E-18
0.9	12	16720	248	0.05	0.00	7.5E-06	4.0E-09	4.1E-10	1.2E-11	0.0	1.5E-18
1.0	11	14390	213	0.04	0.00	6.4E-06	3.4E-09	3.5E-10	1.0E-11	0.0	1.3E-18
1.2	8	10964	163	0.03	0.00	4.9E-06	2.6E-09	2.7E-10	7.9E-12	0.0	9.8E-19

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7d Rev.1- cont | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data - Air Sample Results

Field Team Data for 14:00 to 14:10

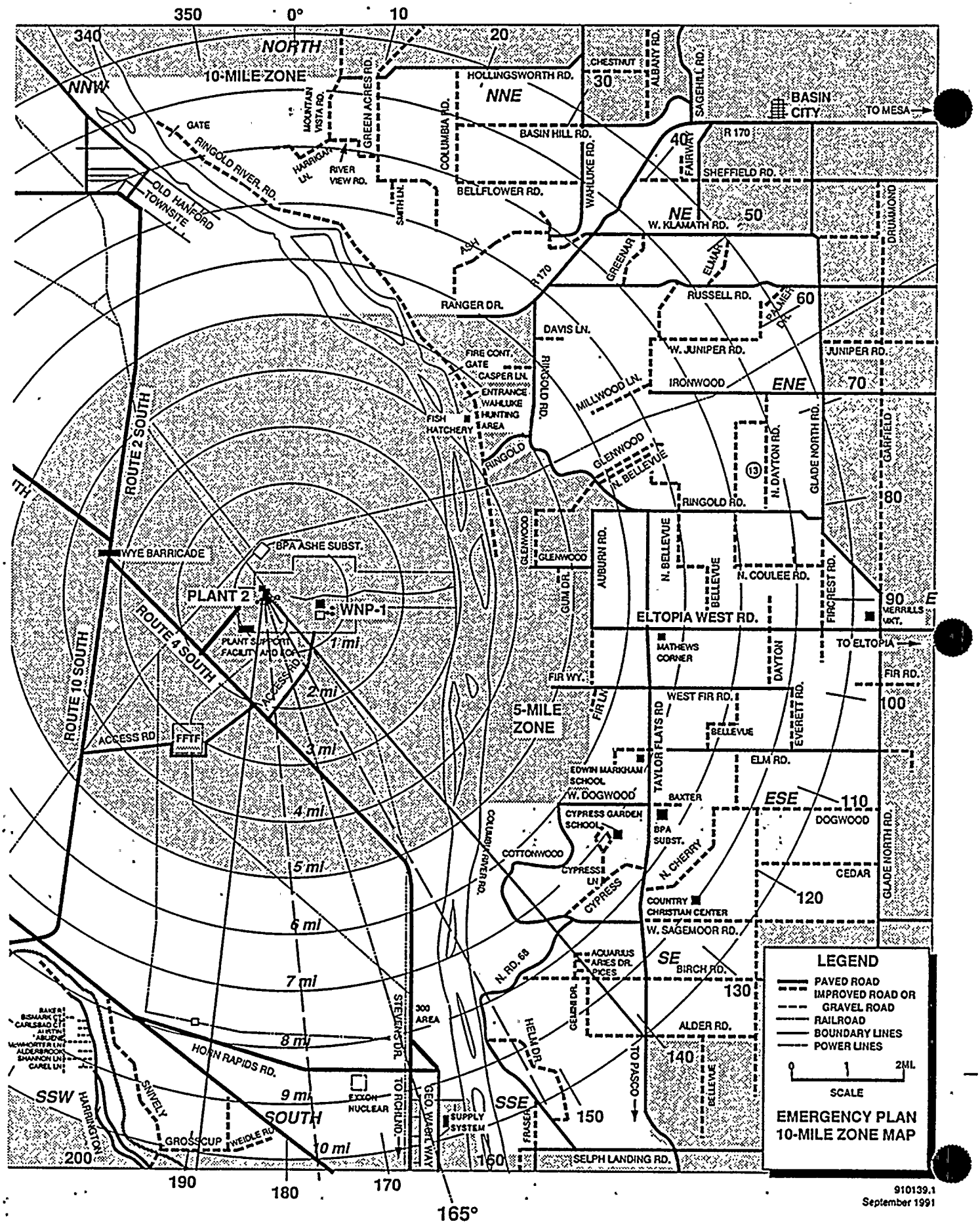
Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	27	36146	534	0.11	0.01	1.6E-05	8.5E-09	8.4E-10	2.6E-11	0.0	3.2E-18
0.2	31	41602	615	0.12	0.01	1.9E-05	9.8E-09	9.7E-10	3.0E-11	0.0	3.7E-18
0.3	36	48422	716	0.14	0.01	2.2E-05	1.1E-08	1.1E-09	3.5E-11	0.0	4.3E-18
0.4	35	46717	690	0.14	0.01	2.1E-05	1.1E-08	1.1E-09	3.4E-11	0.0	4.1E-18
0.5	30	40579	600	0.12	0.01	1.8E-05	9.6E-09	9.4E-10	2.9E-11	0.0	3.6E-18
0.6	25	34441	509	0.10	0.01	1.5E-05	8.1E-09	8.0E-10	2.5E-11	0.0	3.0E-18
0.7	21	28917	427	0.09	0.00	1.3E-05	6.8E-09	6.7E-10	2.1E-11	0.0	2.5E-18
0.8	18	24415	361	0.07	0.00	1.1E-05	5.8E-09	5.7E-10	1.8E-11	0.0	2.2E-18
0.9	15	20367	301	0.06	0.00	9.1E-06	4.8E-09	4.7E-10	1.5E-11	0.0	1.8E-18
1.0	13	17529	259	0.05	0.00	7.8E-06	4.1E-09	4.1E-10	1.3E-11	0.0	1.5E-18
1.2	10	13640	202	0.04	0.00	6.1E-06	3.2E-09	3.2E-10	9.8E-12	0.0	1.2E-18

Field Team Data for 14:10 to 14:20

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	26	35389	521	0.10	0.01	1.6E-05	8.4E-09	7.8E-10	2.5E-11	0.0	3.1E-18
0.2	30	40731	599	0.12	0.01	1.8E-05	9.6E-09	9.0E-10	2.9E-11	0.0	3.5E-18
0.3	35	47408	697	0.14	0.01	2.1E-05	1.1E-08	1.0E-09	3.4E-11	0.0	4.1E-18
0.4	34	45739	673	0.13	0.01	2.0E-05	1.1E-08	1.0E-09	3.3E-11	0.0	4.0E-18
0.5	29	39729	584	0.12	0.01	1.8E-05	9.4E-09	8.7E-10	2.8E-11	0.0	3.4E-18
0.6	25	33720	496	0.10	0.00	1.5E-05	8.0E-09	7.4E-10	2.4E-11	0.0	2.9E-18
0.7	21	28311	417	0.08	0.00	1.3E-05	6.7E-09	6.2E-10	2.0E-11	0.0	2.5E-18
0.8	18	23904	352	0.07	0.00	1.1E-05	5.7E-09	5.3E-10	1.7E-11	0.0	2.1E-18
0.9	15	20365	300	0.06	0.00	9.1E-06	4.8E-09	4.5E-10	1.5E-11	0.0	1.8E-18
1.0	13	17528	258	0.05	0.00	7.8E-06	4.1E-09	3.9E-10	1.3E-11	0.0	1.5E-18
1.2	10	13354	196	0.04	0.00	6.0E-06	3.2E-09	2.9E-10	9.6E-12	0.0	1.2E-18

Field Team Data for 14:20 to 14:30

Distance Miles	Filter Iodine cpm	Cartridge Before Purge cpm	Cartridge After Purge cpm	Cartridg mRad/hr at 1 in.	Filter mRad/hr at 1 in.	N.G. Beta Emitters uCi/cc	Center Line Concentrations I -131 uCi/cc	I -132 uCi/cc	I -133 uCi/cc	I -134 uCi/cc	I -135 uCi/cc
0.1	25	34635	507	0.10	0.01	1.6E-05	8.2E-09	7.2E-10	2.5E-11	0.0	2.9E-18
0.2	29	39863	584	0.12	0.01	1.8E-05	9.4E-09	8.3E-10	2.8E-11	0.0	3.4E-18
0.3	34	46398	680	0.14	0.01	2.1E-05	1.1E-08	9.6E-10	3.3E-11	0.0	4.0E-18
0.4	33	44764	656	0.13	0.01	2.0E-05	1.1E-08	9.3E-10	3.2E-11	0.0	3.8E-18
0.5	28	38883	570	0.11	0.01	1.7E-05	9.2E-09	8.1E-10	2.8E-11	0.0	3.3E-18
0.6	24	33001	483	0.10	0.00	1.5E-05	7.8E-09	6.9E-10	2.4E-11	0.0	2.8E-18
0.7	20	27708	406	0.08	0.00	1.2E-05	6.6E-09	5.8E-10	2.0E-11	0.0	2.4E-18
0.8	17	23395	343	0.07	0.00	1.0E-05	5.5E-09	4.9E-10	1.7E-11	0.0	2.0E-18
0.9	15	19932	292	0.06	0.00	8.9E-06	4.7E-09	4.1E-10	1.4E-11	0.0	1.7E-18
1.0	13	17154	251	0.05	0.00	7.7E-06	4.1E-09	3.6E-10	1.2E-11	0.0	1.5E-18
1.2	10	13070	191	0.04	0.00	5.9E-06	3.1E-09	2.7E-10	9.3E-12	0.0	1.1E-18


350
0°
10
340
20
NORTH
10-MILE ZONE
NNW
NNE
HOLLINGSWORTH RD.
CHESTNUT
ALBANY RD.
SAGEHILL RD.
30
BASIN CITY
TO MESA
GATE
RINGOLD RIVER RD.
OLD HANFORD TOWNSITE
MOUNTAIN VISTA RD.
GREEN ACRES RD.
HARRIGAN LN.
RIVER VIEW RD.
COLUMBIA RD.
BASIN HILL RD.
WAHLUKE RD.
40
FAIRWAY
R 170
SHEFFIELD RD.
SMITH LN.
BELLFLOWER RD.
NE
W. KLAMATH RD.
50
DRUMMOND
ASH
GREENAR
ELMAR
PALMER DR.
RANGER DR.
RUSSELL RD.
60
DAVIS LN.
W. JUNIPER RD.
JUNIPER RD.
FIRE CONT. GATE
CASPER LN. ENTRANCE
WAHLUKE HUNTING AREA
FISH HATCHERY
RINGOLD
MILLWOOD LN.
IRONWOOD
ENE
70
GLENWOOD
N. BELLEVUE
N. DAYTON RD.
GLADE NORTH RD.
GARFIELD
ROUTE 2 SOUTH
RINGOLD RD.
80
WYE BARRICADE
BPA ASHE SUBST.
GLENWOOD
AUBURN RD.
N. BELLEVUE
BELLEVUE
N. COULEE RD.
FIRCREST RD.
90
MERRILLS VKT.
PLANT 2
WNP-1
ELTOPIA WEST RD.
ROUTE 4 SOUTH
ROUTE 10 SOUTH
1 mi
2 mi
3 mi
4 mi
5 mi
6 mi
7 mi
8 mi
9 mi
10 mi
PLANT SUPPORT FACILITY AND LOGISTICS
ACCESS RD.
MATHEWS CORNER
GUM DR.
DAYTON
TO ELTOPIA
FIR RD.
FIR WY.
FIR LN.
WEST FIR RD.
100
5-MILE ZONE
ACCESS RD
FFTF
BELLEVUE
EVERETT RD.
TAYLOR FLATS RD
ELM RD.
EDWIN MARKHAM SCHOOL
W. DOGWOOD
BAXTER
ESE
110
DOGWOOD
CYPRESS GARDEN SCHOOL
BPA SUBST.
COLUMBIA RIVER RD.
COTTONWOOD
CYPRESS LN
CYPRESS
N. CHERRY
CEDAR
COUNTRY CHRISTIAN CENTER
120
GLADE NORTH RD.
W. SAGEMOOR RD.
AQUARIUS
ARIES DR.
PICES
SE
BIRCH RD.
N. RD. 68
130
GELLER DR.
HELM DR.
ALDER RD.
140
TO PASCO
BELLEVUE
300 AREA
STEVENS DR.
HORN RAPIDS RD.
SWIVEL
SSW
SOUTH
SSE
EXXON NUCLEAR
GEO. WASH. WAY
TO RICHLND.
SUPPLY SYSTEM
FRASER
150
HARRINGTON
GROSSCUP
WEIDLE RD.
200
190
180
170
160
SELPH LANDING RD.
165°
LEGEND
PAVED ROAD
IMPROVED ROAD OR GRAVEL ROAD
RAILROAD
BOUNDARY LINES
POWER LINES
0 1 2ML
SCALE
EMERGENCY PLAN 10-MILE ZONE MAP
910139.1
September 1991

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

[redacted] NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data
Radioiodine Deposition by Time uCi/m^2 &
uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1 hour Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	10:00	0.067	5.23E-5	3.88E-5	5.08E-5	1.73	681	170	136	34
1.2	4.00E-06	10:00	0.067	3.99E-5	2.96E-5	3.87E-5	1.32	519	130	104	26
2	1.80E-06	10:00	0.067	1.79E-5	1.33E-5	1.74E-5	0.59	233	58	47	12
3	9.54E-07	10:00	0.067	9.51E-6	7.05E-6	9.23E-6	0.31	124	31	25	6
4	6.17E-07	10:00	0.067	6.15E-6	4.56E-6	5.97E-6	0.20	80	20	16	4
5	4.45E-07	10:00	0.067	4.44E-6	3.29E-6	4.31E-6	0.15	58	14	12	3
6	3.43E-07	10:00	0.067	3.42E-6	2.53E-6	3.32E-6	0.11	44	11	9	2
7	2.77E-07	10:00	0.067	2.76E-6	2.05E-6	2.68E-6	0.09	36	9	7	2
8	2.31E-07	10:00	0.067	0.00E+0	0.00E+0	0.00E+0	0.00	0	0	0	0
9	1.97E-07	10:00	0.067	0.00E+0	0.00E+0	0.00E+0	0.00	0	0	0	0
10.0	1.72E-07	10:00	0.067	0.00E+0	0.00E+0	0.00E+0	0.00	0	0	0	0

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	10:10	0.067	5.23E-5	3.69E-5	5.06E-5	1.71	670	168	134	34
1.2	4.00E-06	10:10	0.067	3.99E-5	2.81E-5	3.85E-5	1.30	511	128	102	26
2	1.80E-06	10:10	0.067	1.79E-5	1.26E-5	1.73E-5	0.58	230	57	46	11
3	9.54E-07	10:10	0.067	9.51E-6	6.70E-6	9.19E-6	0.31	122	30	24	6
4	6.17E-07	10:10	0.067	6.15E-6	4.34E-6	5.94E-6	0.20	79	20	16	4
5	4.45E-07	10:10	0.067	4.44E-6	3.13E-6	4.28E-6	0.14	57	14	11	3
6	3.43E-07	10:10	0.067	3.42E-6	2.41E-6	3.30E-6	0.11	44	11	9	2
7	2.77E-07	10:10	0.067	2.76E-6	1.95E-6	2.67E-6	0.09	35	9	7	2
8	2.31E-07	10:10	0.067	2.30E-6	1.62E-6	2.22E-6	0.08	29	7	6	1
9	1.97E-07	10:10	0.067	0.00E+0	0.00E+0	0.00E+0	0.00	0	0	0	0
10.0	1.72E-07	10:10	0.067	0.00E+0	0.00E+0	0.00E+0	0.00	0	0	0	0

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	10:20	0.067	5.23E-5	3.51E-5	5.03E-5	1.68	660	165	132	33
1.2	4.00E-06	10:20	0.067	3.99E-5	2.67E-5	3.83E-5	1.28	503	126	101	25
2	1.80E-06	10:20	0.067	1.79E-5	1.20E-5	1.72E-5	0.58	226	57	45	11
3	9.54E-07	10:20	0.067	9.51E-6	6.38E-6	9.14E-6	0.31	120	30	24	6
4	6.17E-07	10:20	0.067	6.15E-6	4.12E-6	5.91E-6	0.20	78	19	16	4
5	4.45E-07	10:20	0.067	4.43E-6	2.97E-6	4.26E-6	0.14	56	14	11	3
6	3.43E-07	10:20	0.067	3.42E-6	2.29E-6	3.29E-6	0.11	43	11	9	2
7	2.77E-07	10:20	0.067	2.76E-6	1.85E-6	2.65E-6	0.09	35	9	7	2
8	2.31E-07	10:20	0.067	2.30E-6	1.54E-6	2.21E-6	0.07	29	7	6	1
9	1.97E-07	10:20	0.067	1.96E-6	1.32E-6	1.89E-6	0.06	25	6	5	1
10.0	1.72E-07	10:20	0.067	0.00E+0	0.00E+0	0.00E+0	0.00	0	0	0	0

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	10:30	0.067	5.23E-5	3.34E-5	5.00E-5	1.66	651	163	130	33
1.2	4.00E-06	10:30	0.067	3.99E-5	2.54E-5	3.81E-5	1.26	496	124	99	25
2	1.80E-06	10:30	0.067	1.79E-5	1.14E-5	1.72E-5	0.57	223	56	45	11
3	9.54E-07	10:30	0.067	9.50E-6	6.06E-6	9.09E-6	0.30	118	30	24	6
4	6.17E-07	10:30	0.067	6.15E-6	3.92E-6	5.88E-6	0.19	76	19	15	4
5	4.45E-07	10:30	0.067	4.43E-6	2.83E-6	4.24E-6	0.14	55	14	11	3
6	3.43E-07	10:30	0.067	3.42E-6	2.18E-6	3.27E-6	0.11	43	11	9	2
7	2.77E-07	10:30	0.067	2.76E-6	1.76E-6	2.64E-6	0.09	34	9	7	2
8	2.31E-07	10:30	0.067	2.30E-6	1.47E-6	2.20E-6	0.07	29	7	6	1
9	1.97E-07	10:30	0.067	1.96E-6	1.25E-6	1.88E-6	0.06	24	6	5	1
10.0	1.72E-07	10:30	0.067	1.71E-6	1.09E-6	1.64E-6	0.05	21	5	4	1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data; Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	10:40	0.067	5.23E-5	3.17E-5	4.98E-5	1.63	642	160	128	32
1.2	4.00E-06	10:40	0.067	3.98E-5	2.42E-5	3.79E-5	1.24	489	122	98	24
2	1.80E-06	10:40	0.067	1.79E-5	1.09E-5	1.71E-5	0.56	220	55	44	11
3	9.54E-07	10:40	0.067	9.50E-6	5.77E-6	9.04E-6	0.30	117	29	23	6
4	6.17E-07	10:40	0.067	6.15E-6	3.73E-6	5.85E-6	0.19	75	19	15	4
5	4.45E-07	10:40	0.067	4.43E-6	2.69E-6	4.22E-6	0.14	54	14	11	3
6	3.43E-07	10:40	0.067	3.42E-6	2.07E-6	3.25E-6	0.11	42	10	8	2
7	2.77E-07	10:40	0.067	2.76E-6	1.67E-6	2.63E-6	0.09	34	8	7	2
8	2.31E-07	10:40	0.067	2.30E-6	1.40E-6	2.19E-6	0.07	28	7	6	1
9	1.97E-07	10:40	0.067	1.96E-6	1.19E-6	1.87E-6	0.06	24	6	5	1
10.0	1.72E-07	10:40	0.067	1.71E-6	1.04E-6	1.63E-6	0.05	21	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	10:50	0.067	5.23E-5	3.02E-5	4.95E-5	1.61	633	158	127	32
1.2	4.00E-06	10:50	0.067	3.98E-5	2.30E-5	3.77E-5	1.23	482	121	96	24
2	1.80E-06	10:50	0.067	1.79E-5	1.03E-5	1.70E-5	0.55	217	54	43	11
3	9.54E-07	10:50	0.067	9.50E-6	5.48E-6	8.99E-6	0.29	115	29	23	6
4	6.17E-07	10:50	0.067	6.14E-6	3.55E-6	5.82E-6	0.19	74	19	15	4
5	4.45E-07	10:50	0.067	4.43E-6	2.56E-6	4.20E-6	0.14	54	13	11	3
6	3.43E-07	10:50	0.067	3.42E-6	1.97E-6	3.23E-6	0.11	41	10	8	2
7	2.77E-07	10:50	0.067	2.76E-6	1.59E-6	2.61E-6	0.08	33	8	7	2
8	2.31E-07	10:50	0.067	2.30E-6	1.33E-6	2.18E-6	0.07	28	7	6	1
9	1.97E-07	10:50	0.067	1.96E-6	1.13E-6	1.86E-6	0.06	24	6	5	1
10.0	1.72E-07	10:50	0.067	1.71E-6	9.89E-7	1.62E-6	0.05	21	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2 hours Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	11:00	0.067	5.23E-5	2.87E-5	4.92E-5	1.59	624	156	125	31
1.2	4.00E-06	11:00	0.067	3.98E-5	2.19E-5	3.75E-5	1.21	476	119	95	24
2	1.80E-06	11:00	0.067	1.79E-5	9.84E-6	1.69E-5	0.54	214	54	43	11
3	9.54E-07	11:00	0.067	9.50E-6	5.21E-6	8.95E-6	0.29	113	28	23	6
4	6.17E-07	11:00	0.067	6.14E-6	3.37E-6	5.79E-6	0.19	73	18	15	4
5	4.45E-07	11:00	0.067	4.43E-6	2.43E-6	4.17E-6	0.13	53	13	11	3
6	3.43E-07	11:00	0.067	3.41E-6	1.87E-6	3.22E-6	0.10	41	10	8	2
7	2.77E-07	11:00	0.067	2.76E-6	1.51E-6	2.60E-6	0.08	33	8	7	2
8	2.31E-07	11:00	0.067	2.30E-6	1.26E-6	2.17E-6	0.07	27	7	5	1
9	1.97E-07	11:00	0.067	1.96E-6	1.08E-6	1.85E-6	0.06	23	6	5	1
10.0	1.72E-07	11:00	0.067	1.71E-6	9.40E-7	1.61E-6	0.05	20	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	11:10	0.067	5.22E-5	2.73E-5	4.90E-5	1.57	616	154	123	31
1.2	4.00E-06	11:10	0.067	3.98E-5	2.08E-5	3.73E-5	1.20	470	117	94	23
2	1.80E-06	11:10	0.067	1.79E-5	9.36E-6	1.68E-5	0.54	211	53	42	11
3	9.54E-07	11:10	0.067	9.49E-6	4.96E-6	8.90E-6	0.29	112	28	22	6
4	6.17E-07	11:10	0.067	6.14E-6	3.21E-6	5.76E-6	0.18	72	18	14	4
5	4.45E-07	11:10	0.067	4.43E-6	2.31E-6	4.15E-6	0.13	52	13	10	3
6	3.43E-07	11:10	0.067	3.41E-6	1.78E-6	3.20E-6	0.10	40	10	8	2
7	2.77E-07	11:10	0.067	2.76E-6	1.44E-6	2.58E-6	0.08	33	8	7	2
8	2.31E-07	11:10	0.067	2.30E-6	1.20E-6	2.16E-6	0.07	27	7	5	1
9	1.97E-07	11:10	0.067	1.96E-6	1.02E-6	1.84E-6	0.06	23	6	5	1
10.0	1.72E-07	11:10	0.067	1.71E-6	8.94E-7	1.60E-6	0.05	20	5	4	1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data
Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	11:20	0.067	5.22E-5	2.60E-5	4.87E-5	1.55	609	152	122	30
1.2	4.00E-06	11:20	0.067	3.98E-5	1.98E-5	3.71E-5	1.18	464	116	93	23
2	1.80E-06	11:20	0.067	1.79E-5	8.90E-6	1.67E-5	0.53	209	52	42	10
3	9.54E-07	11:20	0.067	9.49E-6	4.72E-6	8.85E-6	0.28	111	28	22	6
4	6.17E-07	11:20	0.067	6.14E-6	3.05E-6	5.73E-6	0.18	72	18	14	4
5	4.45E-07	11:20	0.067	4.43E-6	2.20E-6	4.13E-6	0.13	52	13	10	3
6	3.43E-07	11:20	0.067	3.41E-6	1.70E-6	3.18E-6	0.10	40	10	8	2
7	2.77E-07	11:20	0.067	2.76E-6	1.37E-6	2.57E-6	0.08	32	8	6	2
8	2.31E-07	11:20	0.067	2.30E-6	1.14E-6	2.14E-6	0.07	27	7	5	1
9	1.97E-07	11:20	0.067	1.96E-6	9.74E-7	1.83E-6	0.06	23	6	5	1
10.0	1.72E-07	11:20	0.067	1.71E-6	8.50E-7	1.60E-6	0.05	20	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	11:30	0.067	5.22E-5	2.47E-5	4.85E-5	1.53	601	150	120	30
1.2	4.00E-06	11:30	0.067	3.98E-5	1.88E-5	3.69E-5	1.17	458	115	92	23
2	1.80E-06	11:30	0.067	1.79E-5	8.46E-6	1.66E-5	0.52	206	52	41	10
3	9.54E-07	11:30	0.067	9.49E-6	4.48E-6	8.81E-6	0.28	109	27	22	5
4	6.17E-07	11:30	0.067	6.14E-6	2.90E-6	5.70E-6	0.18	71	18	14	4
5	4.45E-07	11:30	0.067	4.43E-6	2.09E-6	4.11E-6	0.13	51	13	10	3
6	3.43E-07	11:30	0.067	3.41E-6	1.61E-6	3.17E-6	0.10	39	10	8	2
7	2.77E-07	11:30	0.067	2.75E-6	1.30E-6	2.56E-6	0.08	32	8	6	2
8	2.31E-07	11:30	0.067	2.30E-6	1.09E-6	2.13E-6	0.07	26	7	5	1
9	1.97E-07	11:30	0.067	1.96E-6	9.26E-7	1.82E-6	0.06	23	6	5	1
10.0	1.72E-07	11:30	0.067	1.71E-6	8.09E-7	1.59E-6	0.05	20	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	11:40	0.067	5.22E-5	2.35E-5	4.82E-5	1.51	594	149	119	30
1.2	4.00E-06	11:40	0.067	3.98E-5	1.79E-5	3.67E-5	1.15	453	113	91	23
2	1.80E-06	11:40	0.067	1.79E-5	8.05E-6	1.65E-5	0.52	204	51	41	10
3	9.54E-07	11:40	0.067	9.48E-6	4.26E-6	8.76E-6	0.27	108	27	22	5
4	6.17E-07	11:40	0.067	6.13E-6	2.76E-6	5.67E-6	0.18	70	17	14	3
5	4.45E-07	11:40	0.067	4.42E-6	1.99E-6	4.09E-6	0.13	50	13	10	3
6	3.43E-07	11:40	0.067	3.41E-6	1.53E-6	3.15E-6	0.10	39	10	8	2
7	2.77E-07	11:40	0.067	2.75E-6	1.24E-6	2.54E-6	0.08	31	8	6	2
8	2.31E-07	11:40	0.067	2.30E-6	1.03E-6	2.12E-6	0.07	26	7	5	1
9	1.97E-07	11:40	0.067	1.96E-6	8.81E-7	1.81E-6	0.06	22	6	4	1
10.0	1.72E-07	11:40	0.067	1.71E-6	7.69E-7	1.58E-6	0.05	19	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	11:50	0.067	5.22E-5	2.23E-5	4.80E-5	1.49	587	147	117	29
1.2	4.00E-06	11:50	0.067	3.97E-5	1.70E-5	3.65E-5	1.14	447	112	89	22
2	1.80E-06	11:50	0.067	1.79E-5	7.65E-6	1.64E-5	0.51	201	50	40	10
3	9.54E-07	11:50	0.067	9.48E-6	4.06E-6	8.71E-6	0.27	107	27	21	5
4	6.17E-07	11:50	0.067	6.13E-6	2.62E-6	5.64E-6	0.18	69	17	14	3
5	4.45E-07	11:50	0.067	4.42E-6	1.89E-6	4.06E-6	0.13	50	12	10	2
6	3.43E-07	11:50	0.067	3.41E-6	1.46E-6	3.13E-6	0.10	38	10	8	2
7	2.77E-07	11:50	0.067	2.75E-6	1.18E-6	2.53E-6	0.08	31	8	6	2
8	2.31E-07	11:50	0.067	2.30E-6	9.82E-7	2.11E-6	0.07	26	6	5	1
9	1.97E-07	11:50	0.067	1.96E-6	8.37E-7	1.80E-6	0.06	22	6	4	1
10.0	1.72E-07	11:50	0.067	1.71E-6	7.31E-7	1.57E-6	0.05	19	5	4	1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data
Radioiodine Deposition by Time uCi/m^2 &
uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3 hrs Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	12:00	0.067	5.22E-5	2.12E-5	4.77E-5	1.48	581	145	116	29
1.2	4.00E-06	12:00	0.067	3.97E-5	1.62E-5	3.63E-5	1.13	442	111	88	22
2	1.80E-06	12:00	0.067	1.79E-5	7.28E-6	1.64E-5	0.51	199	50	40	10
3	9.54E-07	12:00	0.067	9.48E-6	3.86E-6	8.67E-6	0.27	106	26	21	5
4	6.17E-07	12:00	0.067	6.13E-6	2.49E-6	5.61E-6	0.17	68	17	14	3
5	4.45E-07	12:00	0.067	4.42E-6	1.80E-6	4.04E-6	0.13	49	12	10	2
6	3.43E-07	12:00	0.067	3.41E-6	1.39E-6	3.12E-6	0.10	38	9	8	2
7	2.77E-07	12:00	0.067	2.75E-6	1.12E-6	2.52E-6	0.08	31	8	6	2
8	2.31E-07	12:00	0.067	2.29E-6	9.34E-7	2.10E-6	0.07	26	6	5	1
9	1.97E-07	12:00	0.067	1.96E-6	7.96E-7	1.79E-6	0.06	22	5	4	1
10.0	1.72E-07	12:00	0.067	1.71E-6	6.95E-7	1.56E-6	0.05	19	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	12:10	0.067	5.21E-5	2.02E-5	4.75E-5	1.46	575	144	115	29
1.2	4.00E-06	12:10	0.067	3.97E-5	1.54E-5	3.62E-5	1.11	438	109	88	22
2	1.80E-06	12:10	0.067	1.79E-5	6.92E-6	1.63E-5	0.50	197	49	39	10
3	9.54E-07	12:10	0.067	9.47E-6	3.67E-6	8.62E-6	0.27	104	26	21	5
4	6.17E-07	12:10	0.067	6.13E-6	2.37E-6	5.58E-6	0.17	68	17	14	3
5	4.45E-07	12:10	0.067	4.42E-6	1.71E-6	4.02E-6	0.12	49	12	10	2
6	3.43E-07	12:10	0.067	3.41E-6	1.32E-6	3.10E-6	0.10	38	9	8	2
7	2.77E-07	12:10	0.067	2.75E-6	1.06E-6	2.50E-6	0.08	30	8	6	2
8	2.31E-07	12:10	0.067	2.29E-6	8.88E-7	2.09E-6	0.06	25	6	5	1
9	1.97E-07	12:10	0.067	1.96E-6	7.57E-7	1.78E-6	0.05	22	5	4	1
10.0	1.72E-07	12:10	0.067	1.71E-6	6.61E-7	1.55E-6	0.05	19	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	12:20	0.067	5.21E-5	1.92E-5	4.72E-5	1.45	569	142	114	28
1.2	4.00E-06	12:20	0.067	3.97E-5	1.46E-5	3.60E-5	1.10	433	108	87	22
2	1.80E-06	12:20	0.067	1.79E-5	6.58E-6	1.62E-5	0.50	195	49	39	10
3	9.54E-07	12:20	0.067	9.47E-6	3.49E-6	8.58E-6	0.26	103	26	21	5
4	6.17E-07	12:20	0.067	6.13E-6	2.26E-6	5.55E-6	0.17	67	17	13	3
5	4.45E-07	12:20	0.067	4.42E-6	1.63E-6	4.00E-6	0.12	48	12	10	2
6	3.43E-07	12:20	0.067	3.41E-6	1.25E-6	3.08E-6	0.09	37	9	7	2
7	2.77E-07	12:20	0.067	2.75E-6	1.01E-6	2.49E-6	0.08	30	8	6	2
8	2.31E-07	12:20	0.067	2.29E-6	8.45E-7	2.08E-6	0.06	25	6	5	1
9	1.97E-07	12:20	0.067	1.96E-6	7.20E-7	1.77E-6	0.05	21	5	4	1
10.0	1.72E-07	12:20	0.067	1.71E-6	6.29E-7	1.55E-6	0.05	19	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	12:30	0.067	5.21E-5	1.83E-5	4.70E-5	1.43	563	141	113	28
1.2	4.00E-06	12:30	0.067	3.97E-5	1.39E-5	3.58E-5	1.09	429	107	86	21
2	1.80E-06	12:30	0.067	1.79E-5	6.26E-6	1.61E-5	0.49	193	48	39	10
3	9.54E-07	12:30	0.067	9.48E-6	3.32E-6	8.54E-6	0.26	102	26	20	5
4	6.17E-07	12:30	0.067	6.13E-6	2.15E-6	5.52E-6	0.17	66	17	13	3
5	4.45E-07	12:30	0.067	4.42E-6	1.55E-6	3.98E-6	0.12	48	12	10	2
6	3.43E-07	12:30	0.067	3.41E-6	1.19E-6	3.07E-6	0.09	37	9	7	2
7	2.77E-07	12:30	0.067	2.75E-6	9.64E-7	2.48E-6	0.08	30	7	6	1
8	2.31E-07	12:30	0.067	2.29E-6	8.04E-7	2.07E-6	0.06	25	6	5	1
9	1.97E-07	12:30	0.067	1.96E-6	6.85E-7	1.76E-6	0.05	21	5	4	1
10.0	1.72E-07	12:30	0.067	1.71E-6	5.98E-7	1.54E-6	0.05	18	5	4	1

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data
Radioiodine Deposition by Time uCi/m^2 &
uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	12:40	0.067	5.22E-5	1.74E-5	4.68E-5	1.42	558	139	112	28
1.2	4.00E-06	12:40	0.067	3.97E-5	1.32E-5	3.56E-5	1.08	425	106	85	21
2	1.80E-06	12:40	0.067	1.79E-5	5.96E-6	1.60E-5	0.49	191	48	38	10
3	9.54E-07	12:40	0.067	9.48E-6	3.16E-6	8.50E-6	0.26	101	25	20	5
4	6.17E-07	12:40	0.067	6.13E-6	2.04E-6	5.50E-6	0.17	66	16	13	3
5	4.45E-07	12:40	0.067	4.42E-6	1.47E-6	3.96E-6	0.12	47	12	9	2
6	3.43E-07	12:40	0.067	3.41E-6	1.14E-6	3.06E-6	0.09	36	9	7	2
7	2.77E-07	12:40	0.067	2.75E-6	9.17E-7	2.47E-6	0.07	29	7	6	1
8	2.31E-07	12:40	0.067	2.30E-6	7.65E-7	2.06E-6	0.06	25	6	5	1
9	1.97E-07	12:40	0.067	1.96E-6	6.52E-7	1.76E-6	0.05	21	5	4	1
10.0	1.72E-07	12:40	0.067	1.71E-6	5.69E-7	1.53E-6	0.05	18	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	12:50	0.067	5.22E-5	1.65E-5	4.66E-5	1.41	553	138	111	28
1.2	4.00E-06	12:50	0.067	3.98E-5	1.26E-5	3.55E-5	1.07	421	105	84	21
2	1.80E-06	12:50	0.067	1.79E-5	5.67E-6	1.60E-5	0.48	190	47	38	9
3	9.54E-07	12:50	0.067	9.49E-6	3.01E-6	8.46E-6	0.26	101	25	20	5
4	6.17E-07	12:50	0.067	6.14E-6	1.94E-6	5.47E-6	0.17	65	16	13	3
5	4.45E-07	12:50	0.067	4.42E-6	1.40E-6	3.95E-6	0.12	47	12	9	2
6	3.43E-07	12:50	0.067	3.41E-6	1.08E-6	3.04E-6	0.09	36	9	7	2
7	2.77E-07	12:50	0.067	2.75E-6	8.73E-7	2.46E-6	0.07	29	7	6	1
8	2.31E-07	12:50	0.067	2.30E-6	7.28E-7	2.05E-6	0.06	24	6	5	1
9	1.97E-07	12:50	0.067	1.96E-6	6.21E-7	1.75E-6	0.05	21	5	4	1
10.0	1.72E-07	12:50	0.067	1.71E-6	5.42E-7	1.53E-6	0.05	18	5	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hours Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	13:00	0.067	5.23E-5	1.58E-5	4.64E-5	1.40	549	137	110	27
1.2	4.00E-06	13:00	0.067	3.98E-5	1.20E-5	3.54E-5	1.06	418	105	84	21
2	1.80E-06	13:00	0.067	1.79E-5	5.40E-6	1.59E-5	0.48	188	47	38	9
3	9.54E-07	13:00	0.067	9.50E-6	2.86E-6	8.43E-6	0.25	100	25	20	5
4	6.17E-07	13:00	0.067	6.14E-6	1.85E-6	5.45E-6	0.16	65	16	13	3
5	4.45E-07	13:00	0.067	4.43E-6	1.34E-6	3.93E-6	0.12	47	12	9	2
6	3.43E-07	13:00	0.067	3.41E-6	1.03E-6	3.03E-6	0.09	36	9	7	2
7	2.77E-07	13:00	0.067	2.76E-6	8.32E-7	2.45E-6	0.07	29	7	6	1
8	2.31E-07	13:00	0.067	2.30E-6	6.93E-7	2.04E-6	0.06	24	6	5	1
9	1.97E-07	13:00	0.067	1.96E-6	5.91E-7	1.74E-6	0.05	21	5	4	1
10	1.72E-07	13:00	0.067	1.71E-6	5.16E-7	1.52E-6	0.05	18	4	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	13:10	0.068	5.23E-5	1.50E-5	4.62E-5	1.39	545	136	109	27
1.2	4.00E-06	13:10	0.068	3.99E-5	1.14E-5	3.52E-5	1.06	415	104	83	21
2	1.80E-06	13:10	0.068	1.79E-5	5.15E-6	1.59E-5	0.48	187	47	37	9
3	9.54E-07	13:10	0.068	9.51E-6	2.73E-6	8.40E-6	0.25	99	25	20	5
4	6.17E-07	13:10	0.068	6.15E-6	1.76E-6	5.43E-6	0.16	64	16	13	3
5	4.45E-07	13:10	0.068	4.44E-6	1.27E-6	3.92E-6	0.12	46	12	9	2
6	3.43E-07	13:10	0.068	3.42E-6	9.81E-7	3.02E-6	0.09	36	9	7	2
7	2.77E-07	13:10	0.068	2.76E-6	7.92E-7	2.44E-6	0.07	29	7	6	1
8	2.31E-07	13:10	0.068	2.30E-6	6.61E-7	2.03E-6	0.06	24	6	5	1
9	1.97E-07	13:10	0.068	1.96E-6	5.63E-7	1.74E-6	0.05	20	5	4	1
10.0	1.72E-07	13:10	0.068	1.71E-6	4.92E-7	1.52E-6	0.05	18	4	4	1

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SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data
Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	13:20	0.068	5.06E-5	1.69E-5	4.54E-5	1.38	541	135	108	27
1.2	4.00E-06	13:20	0.068	3.86E-5	1.29E-5	3.46E-5	1.05	412	103	82	21
2	1.80E-06	13:20	0.068	1.74E-5	5.78E-6	1.56E-5	0.47	186	46	37	9
3	9.54E-07	13:20	0.068	9.20E-6	3.06E-6	8.25E-6	0.25	98	25	20	5
4	6.17E-07	13:20	0.068	5.95E-6	1.98E-6	5.33E-6	0.16	64	16	13	3
5	4.45E-07	13:20	0.068	4.29E-6	1.43E-6	3.85E-6	0.12	46	11	9	2
6	3.43E-07	13:20	0.068	3.31E-6	1.10E-6	2.97E-6	0.09	35	9	7	2
7	2.77E-07	13:20	0.068	2.67E-6	8.90E-7	2.39E-6	0.07	29	7	6	1
8	2.31E-07	13:20	0.068	2.23E-6	7.42E-7	2.00E-6	0.06	24	6	5	1
9	1.97E-07	13:20	0.068	1.90E-6	6.33E-7	1.70E-6	0.05	20	5	4	1
10.0	1.72E-07	13:20	0.068	1.66E-6	5.53E-7	1.49E-6	0.05	18	4	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	13:30	0.068	5.08E-5	1.61E-5	4.53E-5	1.37	538	135	108	27
1.2	4.00E-06	13:30	0.068	3.87E-5	1.23E-5	3.45E-5	1.04	410	103	82	21
2	1.80E-06	13:30	0.068	1.74E-5	5.52E-6	1.55E-5	0.47	185	46	37	9
3	9.54E-07	13:30	0.068	9.23E-6	2.93E-6	8.24E-6	0.25	98	24	20	5
4	6.17E-07	13:30	0.068	5.97E-6	1.89E-6	5.33E-6	0.16	63	16	13	3
5	4.45E-07	13:30	0.068	4.31E-6	1.36E-6	3.84E-6	0.12	46	11	9	2
6	3.43E-07	13:30	0.068	3.32E-6	1.05E-6	2.96E-6	0.09	35	9	7	2
7	2.77E-07	13:30	0.068	2.68E-6	8.50E-7	2.39E-6	0.07	28	7	6	1
8	2.31E-07	13:30	0.068	2.23E-6	7.09E-7	1.99E-6	0.06	24	6	5	1
9	1.97E-07	13:30	0.068	1.91E-6	6.04E-7	1.70E-6	0.05	20	5	4	1
10.0	1.72E-07	13:30	0.068	1.66E-6	5.28E-7	1.48E-6	0.04	18	4	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	13:40	0.068	5.10E-5	1.54E-5	4.53E-5	1.36	536	134	107	27
1.2	4.00E-06	13:40	0.068	3.89E-5	1.17E-5	3.45E-5	1.04	408	102	82	20
2	1.80E-06	13:40	0.068	1.75E-5	5.27E-6	1.55E-5	0.47	184	46	37	9
3	9.54E-07	13:40	0.068	9.27E-6	2.80E-6	8.23E-6	0.25	97	24	19	5
4	6.17E-07	13:40	0.068	6.00E-6	1.81E-6	5.32E-6	0.16	63	16	13	3
5	4.45E-07	13:40	0.068	4.32E-6	1.30E-6	3.84E-6	0.12	45	11	9	2
6	3.43E-07	13:40	0.068	3.33E-6	1.01E-6	2.96E-6	0.09	35	9	7	2
7	2.77E-07	13:40	0.068	2.69E-6	8.12E-7	2.39E-6	0.07	28	7	6	1
8	2.31E-07	13:40	0.068	2.24E-6	6.77E-7	1.99E-6	0.06	24	6	5	1
9	1.97E-07	13:40	0.068	1.91E-6	5.77E-7	1.70E-6	0.05	20	5	4	1
10	1.72E-07	13:40	0.068	1.67E-6	5.04E-7	1.48E-6	0.04	18	4	4	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	13:50	0.068	5.13E-5	1.47E-5	4.53E-5	1.36	534	133	107	27
1.2	4.00E-06	13:50	0.068	3.91E-5	1.12E-5	3.45E-5	1.04	407	102	81	20
2	1.80E-06	13:50	0.068	1.76E-5	5.04E-6	1.55E-5	0.47	183	46	37	9
3	9.54E-07	13:50	0.068	9.32E-6	2.67E-6	8.23E-6	0.25	97	24	19	5
4	6.17E-07	13:50	0.068	6.03E-6	1.73E-6	5.32E-6	0.16	63	16	13	3
5	4.45E-07	13:50	0.068	4.35E-6	1.25E-6	3.84E-6	0.12	45	11	9	2
6	3.43E-07	13:50	0.068	3.35E-6	9.61E-7	2.96E-6	0.09	35	9	7	2
7	2.77E-07	13:50	0.068	2.71E-6	7.76E-7	2.39E-6	0.07	28	7	6	1
8	2.31E-07	13:50	0.068	2.26E-6	6.47E-7	1.99E-6	0.06	23	6	5	1
9	1.97E-07	13:50	0.068	1.92E-6	5.52E-7	1.70E-6	0.05	20	5	4	1
10.0	1.72E-07	13:50	0.068	1.68E-6	4.82E-7	1.48E-6	0.04	17	4	3	1

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CONTROLLER INFORMATION
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SHEET NO. 7e Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

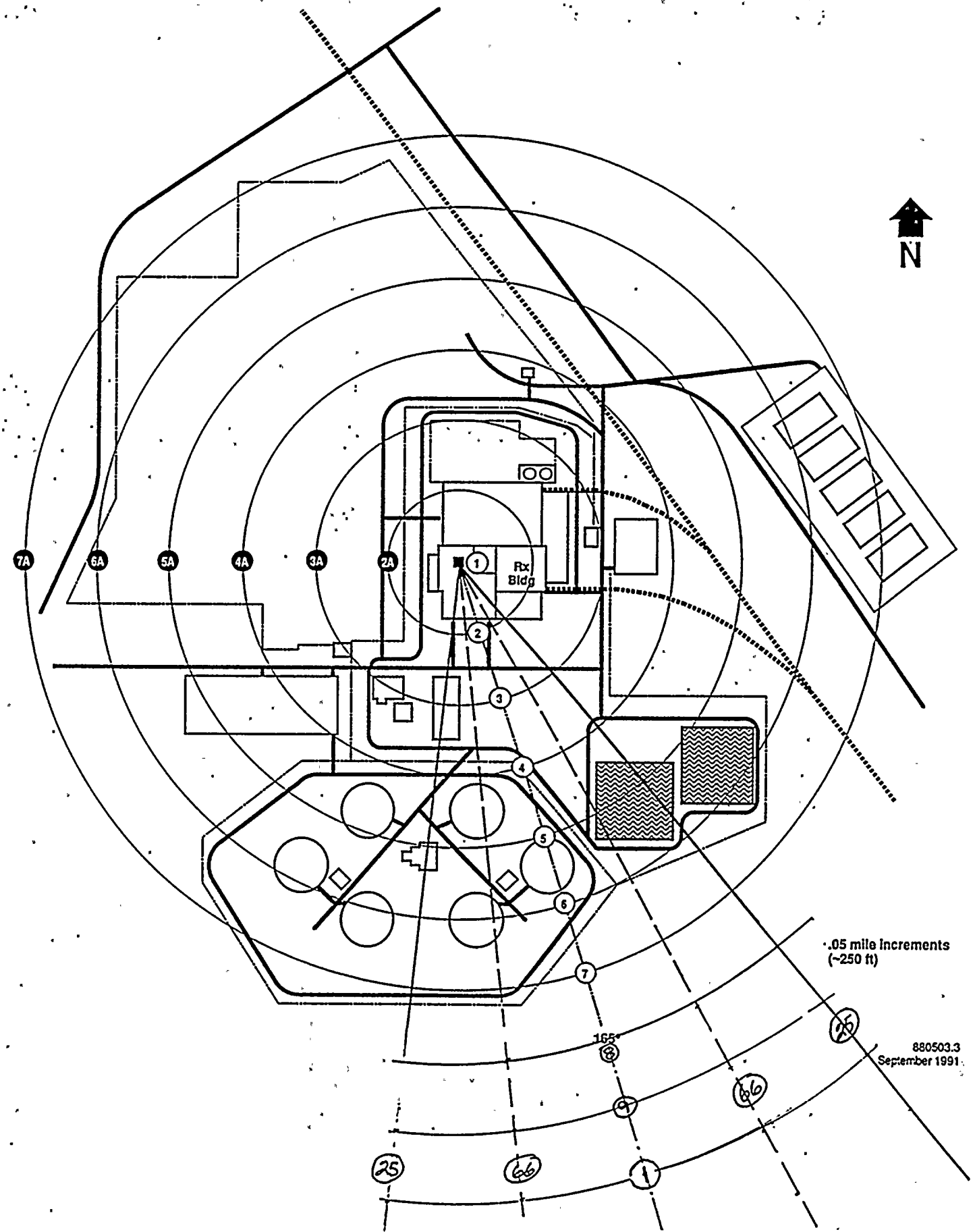
INFORMATION APPLIES TO: Field Team Data; Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	5hr Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	14:00	0.069	4.98E-5	1.66E-5	4.47E-5	1.36	533	133	107	27
1.2	4.00E-06	14:00	0.069	3.80E-5	1.27E-5	3.41E-5	1.03	406	102	81	20
2	1.80E-06	14:00	0.069	1.71E-5	5.69E-6	1.53E-5	0.47	183	46	37	9
3	9.54E-07	14:00	0.069	9.06E-6	3.02E-6	8.12E-6	0.25	97	24	19	5
4	6.17E-07	14:00	0.069	5.86E-6	1.95E-6	5.25E-6	0.16	63	16	13	3
5	4.45E-07	14:00	0.069	4.22E-6	1.41E-6	3.79E-6	0.11	45	11	9	2
6	3.43E-07	14:00	0.069	3.26E-6	1.09E-6	2.92E-6	0.09	35	9	7	2
7	2.77E-07	14:00	0.069	2.63E-6	8.76E-7	2.36E-6	0.07	28	7	6	1
8	2.31E-07	14:00	0.069	2.19E-6	7.31E-7	1.97E-6	0.06	23	6	5	1
9	1.97E-07	14:00	0.069	1.87E-6	6.23E-7	1.68E-6	0.05	20	5	4	1
10.0	1.72E-07	14:00	0.069	1.63E-6	5.44E-7	1.46E-6	0.04	17	4	3	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	5hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	14:10	0.069	5.03E-5	1.60E-5	4.49E-5	1.36	533	133	107	27
1.2	4.00E-06	14:10	0.069	3.83E-5	1.22E-5	3.42E-5	1.03	406	102	81	20
2	1.80E-06	14:10	0.069	1.73E-5	5.47E-6	1.54E-5	0.47	183	46	37	9
3	9.54E-07	14:10	0.069	9.15E-6	2.90E-6	8.16E-6	0.25	97	24	19	5
4	6.17E-07	14:10	0.069	5.92E-6	1.88E-6	5.28E-6	0.16	63	16	13	3
5	4.45E-07	14:10	0.069	4.27E-6	1.35E-6	3.81E-6	0.12	45	11	9	2
6	3.43E-07	14:10	0.069	3.29E-6	1.04E-6	2.93E-6	0.09	35	9	7	2
7	2.77E-07	14:10	0.069	2.66E-6	8.42E-7	2.37E-6	0.07	28	7	6	1
8	2.31E-07	14:10	0.069	2.21E-6	7.02E-7	1.98E-6	0.06	23	6	5	1
9	1.97E-07	14:10	0.069	1.89E-6	5.99E-7	1.69E-6	0.05	20	5	4	1
10.0	1.72E-07	14:10	0.069	1.65E-6	5.23E-7	1.47E-6	0.04	17	4	3	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	5hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	14:20	0.069	5.08E-5	1.53E-5	4.51E-5	1.36	534	133	107	27
1.2	4.00E-06	14:20	0.069	3.87E-5	1.17E-5	3.44E-5	1.03	407	102	81	20
2	1.80E-06	14:20	0.069	1.74E-5	5.25E-6	1.55E-5	0.47	183	46	37	9
3	9.54E-07	14:20	0.069	9.23E-6	2.78E-6	8.20E-6	0.25	97	24	19	5
4	6.17E-07	14:20	0.069	5.97E-6	1.80E-6	5.30E-6	0.16	63	16	13	3
5	4.45E-07	14:20	0.069	4.31E-6	1.30E-6	3.82E-6	0.12	45	11	9	2
6	3.43E-07	14:20	0.069	3.32E-6	1.00E-6	2.95E-6	0.09	35	9	7	2
7	2.77E-07	14:20	0.069	2.68E-6	8.08E-7	2.38E-6	0.07	28	7	6	1
8	2.31E-07	14:20	0.069	2.24E-6	6.74E-7	1.98E-6	0.06	23	6	5	1
9	1.97E-07	14:20	0.069	1.91E-6	5.75E-7	1.69E-6	0.05	20	5	4	1
10	1.72E-07	14:20	0.069	1.66E-6	5.02E-7	1.48E-6	0.04	17	4	3	1

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	5hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1	5.25E-06	14:30	0.070	5.13E-5	1.47E-5	4.53E-5	1.36	534	133	107	27
1.2	4.00E-06	14:30	0.070	3.91E-5	1.12E-5	3.45E-5	1.03	407	102	81	20
2	1.80E-06	14:30	0.070	1.76E-5	5.04E-6	1.55E-5	0.47	183	46	37	9
3	9.54E-07	14:30	0.070	9.32E-6	2.67E-6	8.23E-6	0.25	97	24	19	5
4	6.17E-07	14:30	0.070	6.03E-6	1.73E-6	5.32E-6	0.16	63	16	13	3
5	4.45E-07	14:30	0.070	4.35E-6	1.25E-6	3.84E-6	0.12	45	11	9	2
6	3.43E-07	14:30	0.070	3.35E-6	9.61E-7	2.96E-6	0.09	35	9	7	2
7	2.77E-07	14:30	0.070	2.71E-6	7.76E-7	2.39E-6	0.07	28	7	6	1
8	2.31E-07	14:30	0.070	2.26E-6	6.47E-7	1.99E-6	0.06	23	6	5	1
9	1.97E-07	14:30	0.070	1.92E-6	5.52E-7	1.70E-6	0.05	20	5	4	1
10.0	1.72E-07	14:30	0.070	1.68E-6	4.82E-7	1.48E-6	0.04	17	4	3	1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September 1991

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7f Rev.1 | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data
Radioiodine Deposition by Time uCi/m^2 &
uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1 hour Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	10:00	0.067	3.99E-5	2.96E-5	3.87E-5	1.32	519	130	104	26
0.1	1.06E-05	10:00	0.067	1.06E-4	7.83E-5	1.03E-4	3.50	1375	344	275	69
0.2	1.22E-05	10:00	0.067	1.22E-4	9.01E-5	1.18E-4	4.03	1582	396	316	79
0.3	1.42E-05	10:00	0.067	1.42E-4	1.05E-4	1.37E-4	4.69	1842	460	368	92
0.4	1.37E-05	10:00	0.067	1.37E-4	1.01E-4	1.33E-4	4.52	1777	444	355	89
0.5	1.19E-05	10:00	0.067	1.19E-4	8.79E-5	1.15E-4	3.93	1543	386	309	77
0.6	1.01E-05	10:00	0.067	1.01E-4	7.46E-5	9.78E-5	3.33	1310	327	262	65
0.7	8.48E-06	10:00	0.067	8.46E-5	6.27E-5	8.21E-5	2.80	1100	275	220	55
0.8	7.16E-06	10:00	0.067	7.14E-5	5.29E-5	6.93E-5	2.36	929	232	186	46
0.9	6.10E-06	10:00	0.067	6.08E-5	4.51E-5	5.90E-5	2.01	791	198	158	40
1.0	5.25E-06	10:00	0.067	5.23E-5	3.88E-5	5.08E-5	1.73	681	170	136	34

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	10:10	0.067	3.99E-5	2.81E-5	3.85E-5	1.30	511	128	102	26
0.1	1.06E-05	10:10	0.067	1.06E-4	7.45E-5	1.02E-4	3.44	1354	338	271	68
0.2	1.22E-05	10:10	0.067	1.22E-4	8.57E-5	1.17E-4	3.96	1558	389	312	78
0.3	1.42E-05	10:10	0.067	1.42E-4	9.98E-5	1.37E-4	4.61	1813	453	363	91
0.4	1.37E-05	10:10	0.067	1.37E-4	9.63E-5	1.32E-4	4.45	1750	437	350	87
0.5	1.19E-05	10:10	0.067	1.19E-4	8.36E-5	1.15E-4	3.87	1520	380	304	76
0.6	1.01E-05	10:10	0.067	1.01E-4	7.10E-5	9.72E-5	3.28	1290	322	258	64
0.7	8.48E-06	10:10	0.067	8.45E-5	5.96E-5	8.17E-5	2.76	1083	271	217	54
0.8	7.16E-06	10:10	0.067	7.14E-5	5.03E-5	6.89E-5	2.33	914	229	183	46
0.9	6.10E-06	10:10	0.067	6.08E-5	4.29E-5	5.87E-5	1.98	779	195	156	39
1.0	5.25E-06	10:10	0.067	5.23E-5	3.69E-5	5.06E-5	1.71	670	168	134	34

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	10:20	0.067	3.99E-5	2.67E-5	3.83E-5	1.28	503	126	101	25
0.1	1.06E-05	10:20	0.067	1.06E-4	7.08E-5	1.02E-4	3.39	1333	333	267	67
0.2	1.22E-05	10:20	0.067	1.22E-4	8.15E-5	1.17E-4	3.91	1535	384	307	77
0.3	1.42E-05	10:20	0.067	1.42E-4	9.49E-5	1.36E-4	4.55	1786	447	357	89
0.4	1.37E-05	10:20	0.067	1.37E-4	9.16E-5	1.31E-4	4.39	1723	431	345	86
0.5	1.19E-05	10:20	0.067	1.19E-4	7.95E-5	1.14E-4	3.81	1497	374	299	75
0.6	1.01E-05	10:20	0.067	1.01E-4	6.75E-5	9.67E-5	3.23	1271	318	254	64
0.7	8.48E-06	10:20	0.067	8.45E-5	5.67E-5	8.12E-5	2.71	1067	267	213	53
0.8	7.16E-06	10:20	0.067	7.14E-5	4.79E-5	6.86E-5	2.29	901	225	180	45
0.9	6.10E-06	10:20	0.067	6.08E-5	4.08E-5	5.84E-5	1.95	767	192	153	38
1.0	5.25E-06	10:20	0.067	5.23E-5	3.51E-5	5.03E-5	1.68	660	165	132	33

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	10:30	0.067	3.99E-5	2.54E-5	3.81E-5	1.26	496	124	99	25
0.1	1.06E-05	10:30	0.067	1.06E-4	6.74E-5	1.01E-4	3.34	1314	329	263	66
0.2	1.22E-05	10:30	0.067	1.22E-4	7.75E-5	1.16E-4	3.85	1512	378	302	76
0.3	1.42E-05	10:30	0.067	1.41E-4	9.02E-5	1.35E-4	4.48	1760	440	352	88
0.4	1.37E-05	10:30	0.067	1.36E-4	8.71E-5	1.31E-4	4.32	1698	425	340	85
0.5	1.19E-05	10:30	0.067	1.19E-4	7.56E-5	1.13E-4	3.75	1475	369	295	74
0.6	1.01E-05	10:30	0.067	1.01E-4	6.42E-5	9.62E-5	3.19	1252	313	250	63
0.7	8.48E-06	10:30	0.067	8.45E-5	5.39E-5	8.08E-5	2.68	1051	263	210	53
0.8	7.16E-06	10:30	0.067	7.13E-5	4.55E-5	6.82E-5	2.26	888	222	178	44
0.9	6.10E-06	10:30	0.067	6.08E-5	3.88E-5	5.81E-5	1.92	756	189	151	38
1.0	5.25E-06	10:30	0.067	5.23E-5	3.34E-5	5.00E-5	1.66	651	163	130	33

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7f Rev.1 cont | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data
Radioiodine Deposition by Time uCi/m^2 &
uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	10:40	0.067	3.98E-5	2.42E-5	3.79E-5	1.24	489	122	98	24
0.1	1.06E-05	10:40	0.067	1.06E-4	6.41E-5	1.00E-4	3.30	1296	324	259	65
0.2	1.22E-05	10:40	0.067	1.22E-4	7.37E-5	1.16E-4	3.79	1491	373	298	75
0.3	1.42E-05	10:40	0.067	1.41E-4	8.58E-5	1.35E-4	4.42	1736	434	347	87
0.4	1.37E-05	10:40	0.067	1.36E-4	8.28E-5	1.30E-4	4.26	1674	419	335	84
0.5	1.19E-05	10:40	0.067	1.19E-4	7.19E-5	1.13E-4	3.70	1454	364	291	73
0.6	1.01E-05	10:40	0.067	1.01E-4	6.10E-5	9.57E-5	3.14	1234	309	247	62
0.7	8.48E-06	10:40	0.067	8.45E-5	5.13E-5	8.04E-5	2.64	1036	259	207	52
0.8	7.16E-06	10:40	0.067	7.13E-5	4.33E-5	6.79E-5	2.23	875	219	175	44
0.9	6.10E-06	10:40	0.067	6.08E-5	3.69E-5	5.78E-5	1.90	746	186	149	37
1.0	5.25E-06	10:40	0.067	5.23E-5	3.17E-5	4.98E-5	1.63	642	160	128	32

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	1hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	10:50	0.067	3.98E-5	2.30E-5	3.77E-5	1.23	482	121	96	24
0.1	1.06E-05	10:50	0.067	1.06E-4	6.09E-5	9.99E-5	3.25	1278	319	256	64
0.2	1.22E-05	10:50	0.067	1.21E-4	7.01E-5	1.15E-4	3.74	1471	368	294	74
0.3	1.42E-05	10:50	0.067	1.41E-4	8.16E-5	1.34E-4	4.36	1712	428	342	86
0.4	1.37E-05	10:50	0.067	1.36E-4	7.87E-5	1.29E-4	4.20	1652	413	330	83
0.5	1.19E-05	10:50	0.067	1.18E-4	6.84E-5	1.12E-4	3.65	1435	359	287	72
0.6	1.01E-05	10:50	0.067	1.01E-4	5.81E-5	9.52E-5	3.10	1218	304	244	61
0.7	8.48E-06	10:50	0.067	8.44E-5	4.87E-5	8.00E-5	2.60	1022	256	204	51
0.8	7.16E-06	10:50	0.067	7.13E-5	4.12E-5	6.75E-5	2.20	863	216	173	43
0.9	6.10E-06	10:50	0.067	6.07E-5	3.51E-5	5.75E-5	1.87	735	184	147	37
1.0	5.25E-06	10:50	0.067	5.23E-5	3.02E-5	4.95E-5	1.61	633	158	127	32

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2 hours Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	11:00	0.067	3.98E-5	2.19E-5	3.75E-5	1.21	476	119	95	24
0.1	1.06E-05	11:00	0.067	1.06E-4	5.79E-5	9.94E-5	3.21	1261	315	252	63
0.2	1.22E-05	11:00	0.067	1.21E-4	6.67E-5	1.14E-4	3.69	1451	363	290	73
0.3	1.42E-05	11:00	0.067	1.41E-4	7.76E-5	1.33E-4	4.30	1689	422	338	84
0.4	1.37E-05	11:00	0.067	1.36E-4	7.49E-5	1.28E-4	4.15	1630	407	326	81
0.5	1.19E-05	11:00	0.067	1.18E-4	6.50E-5	1.12E-4	3.60	1415	354	283	71
0.6	1.01E-05	11:00	0.067	1.01E-4	5.52E-5	9.47E-5	3.06	1201	300	240	60
0.7	8.48E-06	11:00	0.067	8.44E-5	4.64E-5	7.95E-5	2.57	1009	252	202	50
0.8	7.16E-06	11:00	0.067	7.13E-5	3.91E-5	6.72E-5	2.17	852	213	170	43
0.9	6.10E-06	11:00	0.067	6.07E-5	3.33E-5	5.72E-5	1.85	726	181	145	36
1.0	5.25E-06	11:00	0.067	5.23E-5	2.87E-5	4.92E-5	1.59	624	156	125	31

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	11:10	0.067	3.98E-5	2.08E-5	3.73E-5	1.20	470	117	94	23
0.1	1.06E-05	11:10	0.067	1.05E-4	5.51E-5	9.89E-5	3.17	1245	311	249	62
0.2	1.22E-05	11:10	0.067	1.21E-4	6.34E-5	1.14E-4	3.65	1432	358	286	72
0.3	1.42E-05	11:10	0.067	1.41E-4	7.38E-5	1.32E-4	4.24	1667	417	333	83
0.4	1.37E-05	11:10	0.067	1.36E-4	7.12E-5	1.28E-4	4.09	1608	402	322	80
0.5	1.19E-05	11:10	0.067	1.18E-4	6.19E-5	1.11E-4	3.56	1397	349	279	70
0.6	1.01E-05	11:10	0.067	1.00E-4	5.25E-5	9.42E-5	3.02	1186	296	237	59
0.7	8.48E-06	11:10	0.067	8.44E-5	4.41E-5	7.91E-5	2.53	996	249	199	50
0.8	7.16E-06	11:10	0.067	7.12E-5	3.72E-5	6.68E-5	2.14	841	210	168	42
0.9	6.10E-06	11:10	0.067	6.07E-5	3.17E-5	5.69E-5	1.82	716	179	143	36
1.0	5.25E-06	11:10	0.067	5.22E-5	2.73E-5	4.90E-5	1.57	616	154	123	31

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7f Rev.1 cont | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data
Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	11:20	0.067	3.98E-5	1.98E-5	3.71E-5	1.18	464	116	93	23
0.1	1.06E-05	11:20	0.067	1.05E-4	5.24E-5	9.84E-5	3.13	1229	307	246	61
0.2	1.22E-05	11:20	0.067	1.21E-4	6.03E-5	1.13E-4	3.60	1414	354	283	71
0.3	1.42E-05	11:20	0.067	1.41E-4	7.02E-5	1.32E-4	4.19	1646	412	329	82
0.4	1.37E-05	11:20	0.067	1.36E-4	6.77E-5	1.27E-4	4.04	1588	397	318	79
0.5	1.19E-05	11:20	0.067	1.18E-4	5.88E-5	1.10E-4	3.51	1380	345	276	69
0.6	1.01E-05	11:20	0.067	1.00E-4	4.99E-5	9.37E-5	2.98	1171	293	234	59
0.7	8.48E-06	11:20	0.067	8.44E-5	4.19E-5	7.87E-5	2.50	983	246	197	49
0.8	7.16E-06	11:20	0.067	7.12E-5	3.54E-5	6.65E-5	2.11	830	208	166	42
0.9	6.10E-06	11:20	0.067	6.07E-5	3.02E-5	5.66E-5	1.80	707	177	141	35
1.0	5.25E-06	11:20	0.067	5.22E-5	2.60E-5	4.87E-5	1.55	609	152	122	30

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	11:30	0.067	3.98E-5	1.88E-5	3.69E-5	1.17	458	115	92	23
0.1	1.06E-05	11:30	0.067	1.05E-4	4.98E-5	9.79E-5	3.09	1214	303	243	61
0.2	1.22E-05	11:30	0.067	1.21E-4	5.74E-5	1.13E-4	3.56	1397	349	279	70
0.3	1.42E-05	11:30	0.067	1.41E-4	6.68E-5	1.31E-4	4.14	1626	407	325	81
0.4	1.37E-05	11:30	0.067	1.36E-4	6.44E-5	1.26E-4	3.99	1569	392	314	78
0.5	1.19E-05	11:30	0.067	1.18E-4	5.59E-5	1.10E-4	3.47	1363	341	273	68
0.6	1.01E-05	11:30	0.067	1.00E-4	4.75E-5	9.32E-5	2.94	1157	289	231	58
0.7	8.48E-06	11:30	0.067	8.43E-5	3.99E-5	7.83E-5	2.47	971	243	194	49
0.8	7.16E-06	11:30	0.067	7.12E-5	3.37E-5	6.61E-5	2.09	820	205	164	41
0.9	6.10E-06	11:30	0.067	6.07E-5	2.87E-5	5.63E-5	1.78	699	175	140	35
1.0	5.25E-06	11:30	0.067	5.22E-5	2.47E-5	4.85E-5	1.53	601	150	120	30

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	11:40	0.067	3.98E-5	1.79E-5	3.67E-5	1.15	453	113	91	23
0.1	1.06E-05	11:40	0.067	1.05E-4	4.74E-5	9.73E-5	3.05	1200	300	240	60
0.2	1.22E-05	11:40	0.067	1.21E-4	5.45E-5	1.12E-4	3.51	1381	345	276	69
0.3	1.42E-05	11:40	0.067	1.41E-4	6.35E-5	1.30E-4	4.09	1607	402	321	80
0.4	1.37E-05	11:40	0.067	1.36E-4	6.12E-5	1.26E-4	3.95	1550	388	310	78
0.5	1.19E-05	11:40	0.067	1.18E-4	5.32E-5	1.09E-4	3.43	1347	337	269	67
0.6	1.01E-05	11:40	0.067	1.00E-4	4.52E-5	9.27E-5	2.91	1143	286	229	57
0.7	8.48E-06	11:40	0.067	8.43E-5	3.79E-5	7.79E-5	2.44	960	240	192	48
0.8	7.16E-06	11:40	0.067	7.12E-5	3.20E-5	6.58E-5	2.06	810	203	162	41
0.9	6.10E-06	11:40	0.067	6.06E-5	2.73E-5	5.60E-5	1.76	690	173	138	35
1.0	5.25E-06	11:40	0.067	5.22E-5	2.35E-5	4.82E-5	1.51	594	149	119	30

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	2hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	11:50	0.067	3.97E-5	1.70E-5	3.65E-5	1.14	447	112	89	22
0.1	1.06E-05	11:50	0.067	1.05E-4	4.51E-5	9.68E-5	3.02	1186	296	237	59
0.2	1.22E-05	11:50	0.067	1.21E-4	5.19E-5	1.11E-4	3.47	1365	341	273	68
0.3	1.42E-05	11:50	0.067	1.41E-4	6.04E-5	1.30E-4	4.04	1589	397	318	79
0.4	1.37E-05	11:50	0.067	1.36E-4	5.82E-5	1.25E-4	3.90	1533	383	307	77
0.5	1.19E-05	11:50	0.067	1.18E-4	5.06E-5	1.09E-4	3.39	1331	333	266	67
0.6	1.01E-05	11:50	0.067	1.00E-4	4.29E-5	9.23E-5	2.88	1130	282	226	56
0.7	8.48E-06	11:50	0.067	8.43E-5	3.60E-5	7.75E-5	2.41	949	237	190	47
0.8	7.16E-06	11:50	0.067	7.12E-5	3.04E-5	6.54E-5	2.04	801	200	160	40
0.9	6.10E-06	11:50	0.067	6.06E-5	2.59E-5	5.57E-5	1.74	682	171	136	34
1.0	5.25E-06	11:50	0.067	5.22E-5	2.23E-5	4.80E-5	1.49	587	147	117	29

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7f - cont. | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
Field Team Data
Radioiodine Deposition by Time uCi/m^2 &
uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3 hrs Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	12:00	0.067	3.97E-5	1.62E-5	3.63E-5	1.13	442	111	88	22
0.1	1.06E-05	12:00	0.067	1.05E-4	4.29E-5	9.63E-5	2.98	1173	293	235	59
0.2	1.22E-05	12:00	0.067	1.21E-4	4.93E-5	1.11E-4	3.43	1350	337	270	67
0.3	1.42E-05	12:00	0.067	1.41E-4	5.74E-5	1.29E-4	4.00	1571	393	314	79
0.4	1.37E-05	12:00	0.067	1.36E-4	5.54E-5	1.24E-4	3.86	1515	379	303	76
0.5	1.19E-05	12:00	0.067	1.18E-4	4.81E-5	1.08E-4	3.35	1316	329	263	66
0.6	1.01E-05	12:00	0.067	1.00E-4	4.08E-5	9.18E-5	2.84	1117	279	223	56
0.7	8.48E-06	12:00	0.067	8.42E-5	3.43E-5	7.71E-5	2.39	938	235	188	47
0.8	7.16E-06	12:00	0.067	7.11E-5	2.89E-5	6.51E-5	2.02	792	198	158	40
0.9	6.10E-06	12:00	0.067	6.06E-5	2.47E-5	5.54E-5	1.72	675	169	135	34
1.0	5.25E-06	12:00	0.067	5.22E-5	2.12E-5	4.77E-5	1.48	581	145	116	29

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr10min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	12:10	0.067	3.97E-5	1.54E-5	3.62E-5	1.11	438	109	88	22
0.1	1.06E-05	12:10	0.067	1.05E-4	4.08E-5	9.58E-5	2.95	1160	290	232	58
0.2	1.22E-05	12:10	0.067	1.21E-4	4.69E-5	1.10E-4	3.40	1335	334	267	67
0.3	1.42E-05	12:10	0.067	1.41E-4	5.46E-5	1.28E-4	3.95	1554	388	311	78
0.4	1.37E-05	12:10	0.067	1.36E-4	5.27E-5	1.24E-4	3.82	1499	375	300	75
0.5	1.19E-05	12:10	0.067	1.18E-4	4.58E-5	1.08E-4	3.31	1302	326	260	65
0.6	1.01E-05	12:10	0.067	1.00E-4	3.88E-5	9.13E-5	2.81	1105	276	221	55
0.7	8.48E-06	12:10	0.067	8.42E-5	3.26E-5	7.67E-5	2.36	928	232	186	46
0.8	7.16E-06	12:10	0.067	7.11E-5	2.75E-5	6.47E-5	1.99	784	196	157	39
0.9	6.10E-06	12:10	0.067	6.06E-5	2.35E-5	5.51E-5	1.70	668	167	134	33
1.0	5.25E-06	12:10	0.067	5.21E-5	2.02E-5	4.75E-5	1.46	575	144	115	29

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	12:20	0.067	3.97E-5	1.46E-5	3.60E-5	1.10	433	108	87	22
0.1	1.06E-05	12:20	0.067	1.05E-4	3.88E-5	9.53E-5	2.92	1148	287	230	57
0.2	1.22E-05	12:20	0.067	1.21E-4	4.46E-5	1.10E-4	3.36	1321	330	264	66
0.3	1.42E-05	12:20	0.067	1.41E-4	5.19E-5	1.28E-4	3.91	1538	384	308	77
0.4	1.37E-05	12:20	0.067	1.36E-4	5.01E-5	1.23E-4	3.78	1484	371	297	74
0.5	1.19E-05	12:20	0.067	1.18E-4	4.35E-5	1.07E-4	3.28	1289	322	258	64
0.6	1.01E-05	12:20	0.067	1.00E-4	3.69E-5	9.08E-5	2.78	1094	273	219	55
0.7	8.48E-06	12:20	0.067	8.42E-5	3.10E-5	7.63E-5	2.34	918	230	184	46
0.8	7.16E-06	12:20	0.067	7.11E-5	2.62E-5	6.44E-5	1.97	775	194	155	39
0.9	6.10E-06	12:20	0.067	6.06E-5	2.23E-5	5.49E-5	1.68	661	165	132	33
1.0	5.25E-06	12:20	0.067	5.21E-5	1.92E-5	4.72E-5	1.45	569	142	114	28

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	3hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	12:30	0.067	3.97E-5	1.39E-5	3.58E-5	1.09	429	107	86	21
0.1	1.06E-05	12:30	0.067	1.05E-4	3.69E-5	9.49E-5	2.89	1137	284	227	57
0.2	1.22E-05	12:30	0.067	1.21E-4	4.24E-5	1.09E-4	3.33	1309	327	262	65
0.3	1.42E-05	12:30	0.067	1.41E-4	4.94E-5	1.27E-4	3.88	1523	381	305	76
0.4	1.37E-05	12:30	0.067	1.36E-4	4.77E-5	1.23E-4	3.74	1469	367	294	73
0.5	1.19E-05	12:30	0.067	1.18E-4	4.14E-5	1.07E-4	3.25	1276	319	255	64
0.6	1.01E-05	12:30	0.067	1.00E-4	3.51E-5	9.04E-5	2.76	1083	271	217	54
0.7	8.48E-06	12:30	0.067	8.42E-5	2.95E-5	7.59E-5	2.31	910	227	182	45
0.8	7.16E-06	12:30	0.067	7.11E-5	2.49E-5	6.41E-5	1.95	768	192	154	38
0.9	6.10E-06	12:30	0.067	6.06E-5	2.12E-5	5.46E-5	1.67	654	164	131	33
1.0	5.25E-06	12:30	0.067	5.21E-5	1.83E-5	4.70E-5	1.43	563	141	113	28

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

...L NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
7f - cont.	Field Teams, MUDAC, and HP Center

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Field Team Data Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
	3hr40min	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	12:40	0.067	3.97E-5	1.32E-5	3.56E-5	1.08	425	106	85	21
0.1	1.06E-05	12:40	0.067	1.05E-4	3.51E-5	9.44E-5	2.87	1126	282	225	56
0.2	1.22E-05	12:40	0.067	1.21E-4	4.04E-5	1.09E-4	3.30	1296	324	259	65
0.3	1.42E-05	12:40	0.067	1.41E-4	4.70E-5	1.27E-4	3.84	1509	377	302	75
0.4	1.37E-05	12:40	0.067	1.36E-4	4.54E-5	1.22E-4	3.70	1456	364	291	73
0.5	1.19E-05	12:40	0.067	1.18E-4	3.94E-5	1.06E-4	3.22	1265	316	253	63
0.6	1.01E-05	12:40	0.067	1.00E-4	3.34E-5	9.00E-5	2.73	1073	268	215	54
0.7	8.48E-06	12:40	0.067	8.43E-5	2.81E-5	7.56E-5	2.29	901	225	180	45
0.8	7.16E-06	12:40	0.067	7.11E-5	2.37E-5	6.38E-5	1.94	761	190	152	38
0.9	6.10E-06	12:40	0.067	6.06E-5	2.02E-5	5.43E-5	1.65	648	162	130	32
1.0	5.25E-06	12:40	0.067	5.22E-5	1.74E-5	4.68E-5	1.42	558	139	112	28

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
	3hr50min	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	12:50	0.067	3.98E-5	1.26E-5	3.55E-5	1.07	421	105	84	21
0.1	1.06E-05	12:50	0.067	1.05E-4	3.34E-5	9.40E-5	2.84	1117	279	223	56
0.2	1.22E-05	12:50	0.067	1.21E-4	3.85E-5	1.08E-4	3.27	1285	321	257	64
0.3	1.42E-05	12:50	0.067	1.41E-4	4.48E-5	1.26E-4	3.81	1496	374	299	75
0.4	1.37E-05	12:50	0.067	1.36E-4	4.32E-5	1.22E-4	3.67	1444	361	289	72
0.5	1.19E-05	12:50	0.067	1.18E-4	3.75E-5	1.06E-4	3.19	1254	313	251	63
0.6	1.01E-05	12:50	0.067	1.00E-4	3.18E-5	8.96E-5	2.71	1064	266	213	53
0.7	8.48E-06	12:50	0.067	8.43E-5	2.67E-5	7.52E-5	2.27	894	223	179	45
0.8	7.16E-06	12:50	0.067	7.12E-5	2.26E-5	6.35E-5	1.92	754	189	151	38
0.9	6.10E-06	12:50	0.067	6.07E-5	1.92E-5	5.41E-5	1.64	643	161	129	32
1.0	5.25E-06	12:50	0.067	5.22E-5	1.65E-5	4.66E-5	1.41	553	138	111	28

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
	4hours	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	13:00	0.067	3.98E-5	1.20E-5	3.54E-5	1.06	418	105	84	21
0.1	1.06E-05	13:00	0.067	1.06E-4	3.18E-5	9.37E-5	2.82	1108	277	222	55
0.2	1.22E-05	13:00	0.067	1.21E-4	3.66E-5	1.08E-4	3.25	1275	319	255	64
0.3	1.42E-05	13:00	0.067	1.41E-4	4.26E-5	1.26E-4	3.78	1484	371	297	74
0.4	1.37E-05	13:00	0.067	1.36E-4	4.11E-5	1.21E-4	3.64	1432	358	286	72
0.5	1.19E-05	13:00	0.067	1.18E-4	3.57E-5	1.05E-4	3.17	1244	311	249	62
0.6	1.01E-05	13:00	0.067	1.01E-4	3.03E-5	8.93E-5	2.69	1056	264	211	53
0.7	8.48E-06	13:00	0.067	8.44E-5	2.55E-5	7.50E-5	2.26	886	222	177	44
0.8	7.16E-06	13:00	0.067	7.13E-5	2.15E-5	6.33E-5	1.90	748	187	150	37
0.9	6.10E-06	13:00	0.067	6.07E-5	1.83E-5	5.39E-5	1.62	638	159	128	32
1	5.25E-06	13:00	0.067	5.23E-5	1.58E-5	4.64E-5	1.40	549	137	110	27

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
	4hr10min	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	13:10	0.068	3.99E-5	1.14E-5	3.52E-5	1.06	415	104	83	21
0.1	1.06E-05	13:10	0.068	1.06E-4	3.03E-5	9.34E-5	2.80	1100	275	220	55
0.2	1.22E-05	13:10	0.068	1.22E-4	3.49E-5	1.07E-4	3.22	1266	317	253	63
0.3	1.42E-05	13:10	0.068	1.42E-4	4.06E-5	1.25E-4	3.75	1474	368	295	74
0.4	1.37E-05	13:10	0.068	1.37E-4	3.92E-5	1.21E-4	3.62	1422	355	284	71
0.5	1.19E-05	13:10	0.068	1.19E-4	3.40E-5	1.05E-4	3.14	1235	309	247	62
0.6	1.01E-05	13:10	0.068	1.01E-4	2.89E-5	8.90E-5	2.67	1048	262	210	52
0.7	8.48E-06	13:10	0.068	8.45E-5	2.43E-5	7.47E-5	2.24	880	220	176	44
0.8	7.16E-06	13:10	0.068	7.14E-5	2.05E-5	6.31E-5	1.89	743	186	149	37
0.9	6.10E-06	13:10	0.068	6.08E-5	1.74E-5	5.37E-5	1.61	633	158	127	32
1.0	5.25E-06	13:10	0.068	5.23E-5	1.50E-5	4.62E-5	1.39	545	136	109	27

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 7f - cont. | RESPONSIBLE CONTROLLER (LOCATION) Field Teams, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO: Field Team Data; Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr20min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	13:20	0.068	3.86E-5	1.29E-5	3.46E-5	1.05	412	103	82	21
0.1	1.06E-05	13:20	0.068	1.02E-4	3.41E-5	9.16E-5	2.78	1093	273	219	55
0.2	1.22E-05	13:20	0.068	1.18E-4	3.92E-5	1.05E-4	3.20	1258	314	252	63
0.3	1.42E-05	13:20	0.068	1.37E-4	4.56E-5	1.23E-4	3.73	1464	366	293	73
0.4	1.37E-05	13:20	0.068	1.32E-4	4.40E-5	1.18E-4	3.60	1413	353	283	71
0.5	1.19E-05	13:20	0.068	1.15E-4	3.82E-5	1.03E-4	3.12	1227	307	245	61
0.6	1.01E-05	13:20	0.068	9.74E-5	3.24E-5	8.73E-5	2.65	1041	260	208	52
0.7	8.48E-06	13:20	0.068	8.17E-5	2.72E-5	7.33E-5	2.23	874	219	175	44
0.8	7.16E-06	13:20	0.068	6.90E-5	2.30E-5	6.19E-5	1.88	738	185	148	37
0.9	6.10E-06	13:20	0.068	5.88E-5	1.96E-5	5.27E-5	1.60	629	157	126	31
1.0	5.25E-06	13:20	0.068	5.06E-5	1.69E-5	4.54E-5	1.38	541	135	108	27

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr30min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	13:30	0.068	3.87E-5	1.23E-5	3.45E-5	1.04	410	103	82	21
0.1	1.06E-05	13:30	0.068	1.03E-4	3.25E-5	9.15E-5	2.77	1087	272	217	54
0.2	1.22E-05	13:30	0.068	1.18E-4	3.74E-5	1.05E-4	3.18	1251	313	250	63
0.3	1.42E-05	13:30	0.068	1.37E-4	4.36E-5	1.23E-4	3.71	1456	364	291	73
0.4	1.37E-05	13:30	0.068	1.33E-4	4.20E-5	1.18E-4	3.57	1405	351	281	70
0.5	1.19E-05	13:30	0.068	1.15E-4	3.65E-5	1.03E-4	3.10	1220	305	244	61
0.6	1.01E-05	13:30	0.068	9.77E-5	3.10E-5	8.72E-5	2.64	1036	259	207	52
0.7	8.48E-06	13:30	0.068	8.20E-5	2.60E-5	7.32E-5	2.21	869	217	174	43
0.8	7.16E-06	13:30	0.068	6.93E-5	2.20E-5	6.18E-5	1.87	734	184	147	37
0.9	6.10E-06	13:30	0.068	5.90E-5	1.87E-5	5.27E-5	1.59	625	156	125	31
1.0	5.25E-06	13:30	0.068	5.08E-5	1.61E-5	4.53E-5	1.37	538	135	108	27

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr40min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	13:40	0.068	3.89E-5	1.17E-5	3.45E-5	1.04	408	102	82	20
0.1	1.06E-05	13:40	0.068	1.03E-4	3.11E-5	9.15E-5	2.75	1082	270	216	54
0.2	1.22E-05	13:40	0.068	1.19E-4	3.57E-5	1.05E-4	3.17	1245	311	249	62
0.3	1.42E-05	13:40	0.068	1.38E-4	4.16E-5	1.23E-4	3.69	1449	362	290	72
0.4	1.37E-05	13:40	0.068	1.33E-4	4.01E-5	1.18E-4	3.56	1398	349	280	70
0.5	1.19E-05	13:40	0.068	1.16E-4	3.49E-5	1.03E-4	3.09	1214	304	243	61
0.6	1.01E-05	13:40	0.068	9.81E-5	2.96E-5	8.71E-5	2.62	1031	258	206	52
0.7	8.48E-06	13:40	0.068	8.24E-5	2.48E-5	7.32E-5	2.20	865	216	173	43
0.8	7.16E-06	13:40	0.068	6.96E-5	2.10E-5	6.18E-5	1.86	731	183	146	37
0.9	6.10E-06	13:40	0.068	5.93E-5	1.79E-5	5.26E-5	1.58	622	156	124	31
1	5.25E-06	13:40	0.068	5.10E-5	1.54E-5	4.53E-5	1.36	536	134	107	27

Field Data Decayed			Radioiodines Deposited on Ground					CPM/Pr. Area		uR/hr	
Miles	4hr50min Chi/Q	Time	Total Ci/sec	I -131 uCi/gm	I-132 uCi/gm	I-133 uCi/gm	uCi/m^2	Ground Level	Waist Level	Ground Level	Waist Level
1.2	4.00E-06	13:50	0.068	3.91E-5	1.12E-5	3.45E-5	1.04	407	102	81	20
0.1	1.06E-05	13:50	0.068	1.04E-4	2.97E-5	9.15E-5	2.74	1078	269	216	54
0.2	1.22E-05	13:50	0.068	1.19E-4	3.42E-5	1.05E-4	3.16	1241	310	248	62
0.3	1.42E-05	13:50	0.068	1.39E-4	3.98E-5	1.23E-4	3.67	1444	361	289	72
0.4	1.37E-05	13:50	0.068	1.34E-4	3.84E-5	1.18E-4	3.55	1393	348	279	70
0.5	1.19E-05	13:50	0.068	1.16E-4	3.33E-5	1.03E-4	3.08	1210	303	242	61
0.6	1.01E-05	13:50	0.068	9.87E-5	2.83E-5	8.72E-5	2.61	1027	257	205	51
0.7	8.48E-06	13:50	0.068	8.28E-5	2.38E-5	7.32E-5	2.19	862	216	172	43
0.8	7.16E-06	13:50	0.068	6.99E-5	2.01E-5	6.18E-5	1.85	728	182	146	36
0.9	6.10E-06	13:50	0.068	5.96E-5	1.71E-5	5.26E-5	1.58	620	155	124	31
1.0	5.25E-06	13:50	0.068	5.13E-5	1.47E-5	4.53E-5	1.36	534	133	107	27

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
7f - cont.	Field Teams, HUDAC, and HP Center

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Field Team Data Radioiodine Deposition by Time uCi/m^2 & uCi/gm - Centerline Concentrations

Field Data Decayed				Radioiodines Deposited on Ground				CPM/Pr. Area		uR/hr	
	5hr	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	14:00	0.069	3.80E-5	1.27E-5	3.41E-5	1.03	406	102	81	20
0.1	1.06E-05	14:00	0.069	1.01E-4	3.35E-5	9.02E-5	2.74	1076	269	215	54
0.2	1.22E-05	14:00	0.069	1.16E-4	3.86E-5	1.04E-4	3.15	1239	310	248	62
0.3	1.42E-05	14:00	0.069	1.35E-4	4.49E-5	1.21E-4	3.67	1442	360	288	72
0.4	1.37E-05	14:00	0.069	1.30E-4	4.33E-5	1.17E-4	3.54	1391	348	278	70
0.5	1.19E-05	14:00	0.069	1.13E-4	3.76E-5	1.01E-4	3.08	1208	302	242	60
0.6	1.01E-05	14:00	0.069	9.59E-5	3.20E-5	8.60E-5	2.61	1026	256	205	51
0.7	8.48E-06	14:00	0.069	8.05E-5	2.68E-5	7.22E-5	2.19	861	215	172	43
0.8	7.16E-06	14:00	0.069	6.80E-5	2.27E-5	6.10E-5	1.85	727	182	145	36
0.9	6.10E-06	14:00	0.069	5.79E-5	1.93E-5	5.19E-5	1.58	619	155	124	31
1.0	5.25E-06	14:00	0.069	4.98E-5	1.66E-5	4.47E-5	1.36	533	133	107	27

Field Data Decayed				Radioiodines Deposited on Ground				CPM/Pr. Area		uR/hr	
	5hr10min	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	14:10	0.069	3.83E-5	1.22E-5	3.42E-5	1.03	406	102	81	20
0.1	1.06E-05	14:10	0.069	1.02E-4	3.22E-5	9.07E-5	2.74	1077	269	215	54
0.2	1.22E-05	14:10	0.069	1.17E-4	3.71E-5	1.04E-4	3.15	1239	310	248	62
0.3	1.42E-05	14:10	0.069	1.36E-4	4.32E-5	1.21E-4	3.67	1443	361	289	72
0.4	1.37E-05	14:10	0.069	1.31E-4	4.16E-5	1.17E-4	3.54	1392	348	278	70
0.5	1.19E-05	14:10	0.069	1.14E-4	3.62E-5	1.02E-4	3.08	1209	302	242	60
0.6	1.01E-05	14:10	0.069	9.68E-5	3.07E-5	8.64E-5	2.61	1026	257	205	51
0.7	8.48E-06	14:10	0.069	8.13E-5	2.58E-5	7.25E-5	2.19	861	215	172	43
0.8	7.16E-06	14:10	0.069	6.86E-5	2.18E-5	6.12E-5	1.85	727	182	145	36
0.9	6.10E-06	14:10	0.069	5.85E-5	1.85E-5	5.22E-5	1.58	620	155	124	31
1.0	5.25E-06	14:10	0.069	5.03E-5	1.60E-5	4.49E-5	1.36	533	133	107	27

Field Data Decayed				Radioiodines Deposited on Ground				CPM/Pr. Area		uR/hr	
	5hr20min	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	14:20	0.069	3.87E-5	1.17E-5	3.44E-5	1.03	407	102	81	20
0.1	1.06E-05	14:20	0.069	1.03E-4	3.09E-5	9.11E-5	2.74	1077	269	215	54
0.2	1.22E-05	14:20	0.069	1.18E-4	3.56E-5	1.05E-4	3.16	1240	310	248	62
0.3	1.42E-05	14:20	0.069	1.37E-4	4.14E-5	1.22E-4	3.67	1443	361	289	72
0.4	1.37E-05	14:20	0.069	1.33E-4	4.00E-5	1.18E-4	3.54	1392	348	278	70
0.5	1.19E-05	14:20	0.069	1.15E-4	3.47E-5	1.02E-4	3.08	1209	302	242	60
0.6	1.01E-05	14:20	0.069	9.77E-5	2.95E-5	8.68E-5	2.61	1026	257	205	51
0.7	8.48E-06	14:20	0.069	8.21E-5	2.47E-5	7.29E-5	2.19	862	215	172	43
0.8	7.16E-06	14:20	0.069	6.93E-5	2.09E-5	6.15E-5	1.85	728	182	146	36
0.9	6.10E-06	14:20	0.069	5.90E-5	1.78E-5	5.24E-5	1.58	620	155	124	31
1	5.25E-06	14:20	0.069	5.08E-5	1.53E-5	4.51E-5	1.36	534	133	107	27

Field Data Decayed				Radioiodines Deposited on Ground				CPM/Pr. Area		uR/hr	
	5hr30min	Time	Total	I -131	I-132	I-133		Ground	Waist	Ground	Waist
Miles	Chi/Q		Ci/sec	uCi/gm	uCi/gm	uCi/gm	uCi/m^2	Level	Level	Level	Level
1.2	4.00E-06	14:30	0.070	3.91E-5	1.12E-5	3.45E-5	1.03	407	102	81	20
0.1	1.06E-05	14:30	0.070	1.04E-4	2.97E-5	9.15E-5	2.74	1078	269	216	54
0.2	1.22E-05	14:30	0.070	1.19E-4	3.42E-5	1.05E-4	3.16	1240	310	248	62
0.3	1.42E-05	14:30	0.070	1.39E-4	3.98E-5	1.23E-4	3.67	1444	361	289	72
0.4	1.37E-05	14:30	0.070	1.34E-4	3.84E-5	1.18E-4	3.54	1393	348	279	70
0.5	1.19E-05	14:30	0.070	1.16E-4	3.33E-5	1.03E-4	3.08	1210	302	242	60
0.6	1.01E-05	14:30	0.070	9.86E-5	2.83E-5	8.71E-5	2.61	1027	257	205	51
0.7	8.48E-06	14:30	0.070	8.28E-5	2.38E-5	7.32E-5	2.19	862	216	172	43
0.8	7.16E-06	14:30	0.070	6.99E-5	2.01E-5	6.18E-5	1.85	728	182	146	36
0.9	6.10E-06	14:30	0.070	5.96E-5	1.71E-5	5.26E-5	1.58	620	155	124	31
1.0	5.25E-06	14:30	0.070	5.13E-5	1.47E-5	4.53E-5	1.36	534	133	107	27

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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	Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
8	Control Cell, MUDAC

VALID FOR TIMES OF:					
REAL TIME	0800 ☐ AM ☐ PM TO 1430 ☐ AM ☐ PM	DRILL TIME	0000 HOURS TO	0630	HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	PLANT LAB & HP CENTER DATA

DATA SHEET	ITEM
8a	Source Term by Time & Nuclide
8b	Plate out of 20% Radioiodines by time - Reactor Building
8c	Radioiodine Deposition by Time (Field Team Data)

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
8a	TSC, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

PLant Lab and HP Center Data
Source Term by Time & Nuclide

Source Term for Reactor Building by Time & Nuclide

Time	8:00	9:00	9:15	9:30	9:45	10:00	10:15	10:30	10:45	11:00	11:15	11:30
Nuclide	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc
Kr85	6.39E-12	6.39E-04	6.12E-04	5.84E-04	5.58E-04	5.34E-04	5.11E-04	4.90E-04	4.70E-04	4.51E-04	4.33E-04	4.16E-04
Xe131m	2.76E-10	2.76E-02	2.64E-02	2.52E-02	2.40E-02	2.30E-02	2.20E-02	2.11E-02	2.02E-02	1.94E-02	1.86E-02	1.79E-02
Xe133m	1.56E-12	1.56E-04	1.49E-04	1.42E-04	1.35E-04	1.29E-04	1.23E-04	1.17E-04	1.12E-04	1.07E-04	1.02E-04	9.80E-05
Xe133	3.21E-10	3.21E-02	3.07E-02	2.93E-02	2.79E-02	2.67E-02	2.55E-02	2.44E-02	2.34E-02	2.24E-02	2.15E-02	2.06E-02
I131	1.04E-09	2.89E-03	2.76E-03	2.63E-03	2.51E-03	2.40E-03	2.30E-03	2.20E-03	2.11E-03	2.02E-03	1.94E-03	1.86E-03
I132	5.04E-10	1.40E-03	1.24E-03	1.10E-03	9.64E-04	8.47E-04	7.43E-04	6.50E-04	5.68E-04	4.94E-04	4.28E-04	3.69E-04
I133	3.79E-12	1.05E-05	1.00E-05	9.46E-06	8.96E-06	8.49E-06	8.05E-06	7.64E-06	7.26E-06	6.90E-06	6.56E-06	6.24E-06

Time	11:45	12:00	12:05	12:10	12:15	12:20	12:25	12:30	12:45	13:00	13:15	13:30
Nuclide	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc	uCi/cc
Kr85	4.01E-04	3.86E-04	4.62E-04	6.22E-4	7.03E-04	8.29E-04	9.68E-04	1.09E-03	1.52E-03	2.08E-03	2.87E-03	3.96E-03
Xe131m	1.72E-02	1.65E-02	1.63E-02	1.62E-02	1.60E-02	1.58E-02	1.57E-02	1.55E-02	1.51E-02	1.48E-02	1.45E-02	1.44E-02
Xe133m	9.38E-05	8.99E-05	1.23E-04	1.92E-04	2.26E-04	2.80E-04	3.39E-04	3.92E-04	5.71E-04	8.05E-04	1.14E-03	1.59E-03
Xe133	1.98E-02	1.91E-02	2.33E-02	3.21E-02	3.66E-02	4.35E-02	5.12E-02	5.80E-02	8.13E-02	1.12E-01	1.55E-01	2.15E-01
I131	1.79E-03	1.72E-03	2.13E-03	2.98E-03	3.41E-03	4.07E-03	4.81E-03	5.47E-03	7.71E-03	1.07E-02	1.48E-02	2.06E-02
I132	3.16E-04	2.69E-04	3.35E-04	4.78E-04	5.39E-04	6.37E-04	7.43E-04	8.29E-04	1.10E-03	1.43E-03	1.86E-03	2.42E-03
I133	5.94E-06	5.65E-06	6.91E-06	9.52E-06	1.08E-05	1.29E-05	1.51E-05	1.71E-05	2.38E-05	3.26E-05	4.49E-05	6.18E-05

Time	13:45	14:00	14:15	14:30
Nuclide	uCi/cc	uCi/cc	uCi/cc	uCi/cc
Kr85	5.66E-03	1.02E-02	9.84E-03	9.52E-03
Xe131m	1.45E-02	1.55E-02	1.50E-02	1.45E-02
Xe133m	2.29E-03	4.14E-03	4.00E-03	3.85E-03
Xe133	3.08E-01	5.53E-01	5.34E-01	5.17E-01
I131	2.95E-02	5.32E-02	5.14E-02	4.97E-02
I132	3.24E-03	5.48E-03	4.89E-03	4.35E-03
I133	8.78E-05	1.57E-04	1.50E-04	1.44E-04

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

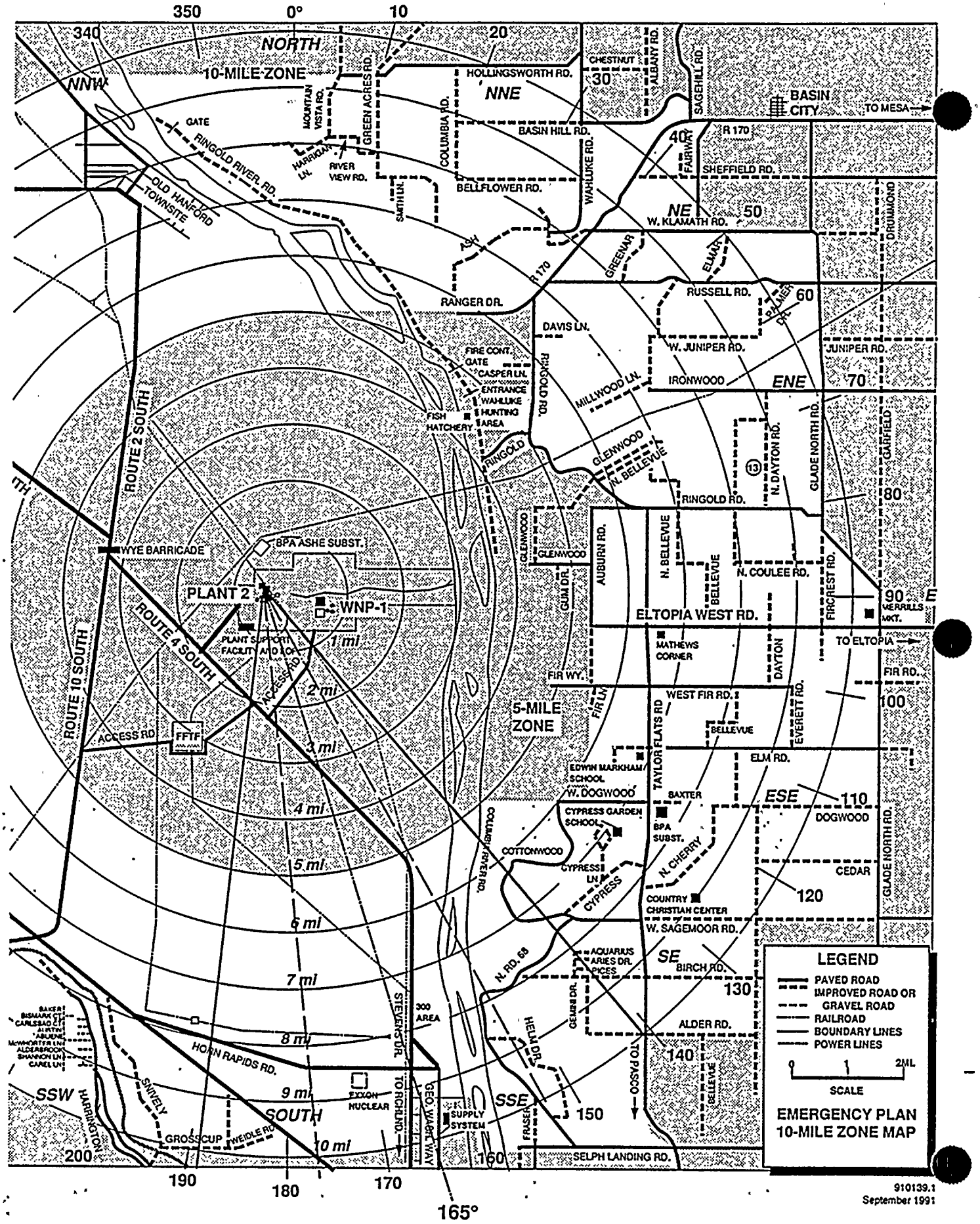
L NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
8b	CR (Simulator)

VALID FOR TIMES OF:							
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	Plant Lab and HP Center Data- Plate Out in Reactor Building

Time	Percent Plate Out of 20% of total Iodines in Curies				Percent Plate Out of 20% of total Iodines in Reactor Building in uCi/cm^2				
	I131 Curies	I132 Curies	I133 Curies	Total Curies	Percent Plate Out of 20%	I131 uCi/cm^2	I132 uCi/cm^2	I133 uCi/cm^2	Total uCi/cm^2
8:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00	11.45	5.54	0.042	17.0	0.2	9.96E-04	4.82E-04	3.63E-06	1.48E-03
9:15	22.91	11.08	0.084	34.1	0.4	1.99E-03	9.63E-04	7.26E-06	2.96E-03
9:30	34.36	16.62	0.125	51.1	0.6	2.99E-03	1.44E-03	1.09E-05	4.44E-03
9:45	45.81	22.15	0.167	68.1	0.8	3.98E-03	1.93E-03	1.45E-05	5.92E-03
10:00	57.27	27.69	0.209	85.2	1	4.98E-03	2.41E-03	1.82E-05	7.41E-03
10:15	57.22	25.67	0.207	83.1	0.98	4.98E-03	2.23E-03	1.80E-05	7.23E-03
10:30	57.17	23.79	0.205	81.2	0.95	4.97E-03	2.07E-03	1.79E-05	7.06E-03
10:45	57.14	22.92	0.204	80.3	0.93	4.97E-03	1.99E-03	1.78E-05	6.98E-03
11:00	57.11	22.05	0.204	79.4	0.91	4.97E-03	1.92E-03	1.77E-05	6.90E-03
11:15	57.06	20.43	0.202	77.7	0.89	4.96E-03	1.78E-03	1.76E-05	6.76E-03
11:30	57.01	18.94	0.200	76.2	0.88	4.96E-03	1.65E-03	1.74E-05	6.62E-03
11:45	56.96	17.55	0.199	74.7	0.86	4.95E-03	1.53E-03	1.73E-05	6.50E-03
12:00	63.67	16.07	0.218	80.0	0.94	5.54E-03	1.40E-03	1.89E-05	6.95E-03
12:05	65.29	16.31	0.222	81.8	0.96	5.68E-03	1.42E-03	1.93E-05	7.12E-03
12:10	68.65	16.83	0.233	85.7	1.01	5.97E-03	1.46E-03	2.02E-05	7.45E-03
12:15	83.84	19.04	0.280	103.2	1.21	7.29E-03	1.66E-03	2.44E-05	8.97E-03
12:20	94.51	20.54	0.313	115.4	1.35	8.22E-03	1.79E-03	2.72E-05	1.00E-02
12:25	105.8	22.09	0.348	128.2	1.51	9.20E-03	1.92E-03	3.02E-05	1.12E-02
12:30	121.8	24.22	0.397	146.5	1.72	1.06E-02	2.11E-03	3.45E-05	1.27E-02
12:45	179.0	31.26	0.570	210.9	2.48	1.56E-02	2.72E-03	4.95E-05	1.83E-02
13:00	268.0	41.32	0.835	310.2	3.64	2.33E-02	3.59E-03	7.26E-05	2.70E-02
13:15	350.8	49.31	1.078	401.2	4.71	3.05E-02	4.29E-03	9.37E-05	3.49E-02
13:30	464.8	59.51	1.410	525.8	6.17	4.04E-02	5.17E-03	1.23E-04	4.57E-02
13:45	641.6	74.62	1.921	718.1	8.43	5.58E-02	6.49E-03	1.67E-04	6.24E-02
14:00	628.7	73.12	1.883	703.7	8.3	5.47E-02	6.36E-03	1.64E-04	6.12E-02
14:15	615.9	71.63	1.844	689.4	8.1	5.36E-02	6.23E-03	1.60E-04	5.99E-02
14:30	603.1	70.14	1.806	675.0	7.9	5.24E-02	6.10E-03	1.57E-04	5.87E-02


350
0°
10
340
20
NORTH
10-MILE ZONE
NNW
NNE
30
CHESTNUT
ALBANY RD.
SAGEHILL RD.
BASIN CITY
TO MESA
HOLLINGSWORTH RD.
BASIN HILL RD.
GATE
RINGOLD RIVER RD.
MOUNTAIN VISTA RD.
GREEN ACRES RD.
COLUMBIA RD.
HARRIGAN LN.
RIVER VIEW RD.
SMITH LN.
BELLFLOWER RD.
WAHLUKE RD.
R 170
40
FAIRWAY
SHEFFIELD RD.
OLD HANFORD TOWNSITE
NE
W. KLAMATH RD.
50
DRUMMOND
ASH
GREENAR
ELMAR
RANGER DR.
RUSSELL RD.
PALMER DR.
60
DAVIS LN.
W. JUNIPER RD.
JUNIPER RD.
FIRE CONT. GATE
CASPER LN.
ENTRANCE
WAHLUKE HUNTING AREA
FISH HATCHERY
RINGOLD RD.
MILLWOOD LN.
IRONWOOD
ENE
70
GLENWOOD
N. BELLEVUE
N. DAYTON RD.
GLADE NORTH RD.
GARFIELD
13
RINGOLD RD.
80
ROUTE 2 SOUTH
WYE BARRICADE
BPA ASHE SUBST.
GLENWOOD
AUBURN RD.
N. BELLEVUE
BELLEVUE
N. COULEE RD.
FIRCREST RD.
90
VERRILLS MKT.
E
PLANT 2
WNP-1
ELTOPIA WEST RD.
ROUTE 4 SOUTH
1 mi
PLANT SUPPORT FACILITY AND LOF
ACCESS RD.
2 mi
MATHEWS CORNER
TO ELTOPIA
DAYTON
FIR WY.
FIR RD.
ROUTE 10 SOUTH
ACCESS RD
FFTF
3 mi
WEST FIR RD.
100
5-MILE ZONE
FIR LN
TAYLOR FLATS RD
BELLEVUE
EVERETT RD.
ELM RD.
EDWIN MARKHAM SCHOOL
W. DOGWOOD
BAXTER
ESE
110
DOGWOOD
4 mi
CYPRESS GARDEN SCHOOL
BPA SUBST.
COLUMBIA RIVER RD.
COTTONWOOD
CYPRESS LN
CYPRESS
N. CHERRY
CEDAR
5 mi
COUNTRY CHRISTIAN CENTER
120
GLADE NORTH RD.
6 mi
W. SAGEMOOR RD.
AQUARIUS
ARIES DR.
PICES
N. RD. 68
SE
BIRCH RD.
130
7 mi
300 AREA
GEMINI DR.
HELM DR.
ALDER RD.
140
8 mi
HORN RAPIDS RD.
STEVENS DR.
TO RICHLAND
TO PASCO
BELLEVUE
SSW
SWIVELY
9 mi
EXXON NUCLEAR
GEO. WASH. WAY
SUPPLY SYSTEM
SSE
SOUTH
150
HARRINGTON
GROSSCUP
WEIDLE RD.
10 mi
FRASER
SELPH LANDING RD.
200
190
180
170
160
165°
LEGEND
PAVED ROAD
IMPROVED ROAD OR GRAVEL ROAD
RAILROAD
BOUNDARY LINES
POWER LINES
0
1
2ML
SCALE
EMERGENCY PLAN
10-MILE ZONE MAP
910139.1
September 1991

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 8c | RESPONSIBLE CONTROLLER (LOCATION) TSC, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME ☐AM 8:00 ☐PM TO ☐AM 14:30 ☐PM | DRILL TIME 0:00 HOURS TO 6:30 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
PLant Lab and HP Center Data
Radioiodine Deposition by Time
Field Team Data

600

Field Data for 9:00 to 9:10		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	4.36E+00	1713	428	0.34	0.09
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.92E+00	756	189	0.15	0.04

Field Data for 9:10 to9:20		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	4.28E+00	1681	420	0.34	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.89E+00	742	185	0.15	0.04
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.44E+00	565	141	0.11	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	1.02E+00	400	100	0.08	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	6.59E-01	259	65	0.05	0.01

Field Data for 9:20 to 9:30		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	4.20E+00	1651	413	0.33	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.85E+00	728	182	0.15	0.04
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.41E+00	555	139	0.11	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.99E-01	393	98	0.08	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	6.36E-01	250	62	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.48E-01	176	44	0.04	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.49E-01	137	34	0.03	0.01

Field Data for 9:30 to9:40		Cloud Travel Time T+min .	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	4.13E+00	1622	406	0.32	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.82E+00	716	179	0.14	0.04
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.39E+00	545	136	0.11	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.82E-01	386	96	0.08	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	6.24E-01	245	61	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.41E-01	173	43	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.31E-01	130	33	0.03	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.62E-01	103	26	0.02	0.01
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	2.26E-01	89	22	0.02	0.00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
8c -cont.	TSC, MUDAC, and HP Center

VALID FOR TIMES OF:
REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM
DRILL TIME 0:00 HOURS TO 6:00 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
PLant Lab and HP Center Data
Radioiodine Deposition by Time
Field Team Data

Field Data for 9:40 to 9:50		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	4.06E+00	1595	399	0.32	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.79E+00	703	176	0.14	0.04
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.36E+00	536	134	0.11	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.65E-01	379	95	0.08	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	6.14E-01	241	60	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.33E-01	170	43	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.25E-01	128	32	0.03	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.57E-01	101	25	0.02	0.01
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	2.10E-01	83	21	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.77E-01	69	17	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.63E-01	64	16	0.01	0.00

Field Data for 9:50 to 10:00		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.99E+00	1568	392	0.31	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.76E+00	692	173	0.14	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.34E+00	527	132	0.11	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.49E-01	373	93	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	6.04E-01	237	59	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.26E-01	167	42	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.20E-01	126	31	0.03	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.53E-01	99	25	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	2.07E-01	81	20	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.74E-01	68	17	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.49E-01	59	15	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.30E-01	51	13	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.26E-01	49	12	0.01	0.00

Field Data for 10:00 to 10:10		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.93E+00	1543	386	0.31	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.73E+00	681	170	0.14	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.32E+00	519	130	0.10	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.34E-01	367	92	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.94E-01	233	58	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.19E-01	165	41	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.15E-01	124	31	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.49E-01	98	24	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	2.04E-01	80	20	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.71E-01	67	17	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.47E-01	58	14	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.28E-01	50	13	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.13E-01	44	11	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	1.01E-01	40	10	0.01	0.00
7	2.77E-07	70	10:10	0.011149	2.682	3.4E-3	1.69E-02	7	2	0.00	0.00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

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SHEET NO. 8c - cont. | RESPONSIBLE CONTROLLER (LOCATION) TSC, MUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:00 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
PLant Lab and HP Center Data
Radioiodine Deposition by Time
Field Team Data

Field Data for 10:10 to 10:20		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.86E+00	1519	380	0.30	0.08
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.71E+00	670	167	0.13	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.30E+00	510	128	0.10	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.19E-01	361	90	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.85E-01	230	57	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.12E-01	162	41	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.10E-01	122	30	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.45E-01	96	24	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	2.00E-01	79	20	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.68E-01	66	17	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.45E-01	57	14	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.26E-01	50	12	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.11E-01	44	11	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.94E-02	39	10	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	9.00E-02	35	9	0.01	0.00

Field Data for 10:20 to 10:30		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.81E+00	1496	374	0.30	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.68E+00	660	165	0.13	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.28E+00	503	126	0.10	0.03
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	9.05E-01	356	89	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.76E-01	226	57	0.05	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.06E-01	160	40	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.05E-01	120	30	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.41E-01	95	24	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.97E-01	78	19	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.66E-01	65	16	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.42E-01	56	14	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.24E-01	49	12	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.10E-01	43	11	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.79E-02	38	10	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.86E-02	35	9	0.01	0.00

Field Data for 10:30 to 10:40		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.75E+00	1473	368	0.29	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.65E+00	650	163	0.13	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.26E+00	495	124	0.10	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.92E-01	350	88	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.67E-01	223	56	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	4.00E-01	157	39	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	3.01E-01	118	30	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.38E-01	93	23	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.94E-01	76	19	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.63E-01	64	16	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.40E-01	55	14	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.22E-01	48	12	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.08E-01	42	11	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.64E-02	38	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.73E-02	34	9	0.01	0.00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
8c - cont.	TSC, MUDAC, and HP Center

VALID FOR TIMES OF:

REAL TIME 8:00 ☐ AM ☐ PM TO 14:30 ☐ AM ☐ PM

DRILL TIME 0:00 HOURS TO 6:00 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO

PLant Lab and HP Center Data
Radiofodine Deposition by Time
Field Team Data

Field Data for 10:40 to 10:50		Cloud Travel Time	Cloud Arriva Time	Iodines	wind	Dep.	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q	T+min		Total (Q Ci/sec	speed m/sec	Coeffi-cient		Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.70E+00	1452	363	0.29	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.63E+00	641	160	0.13	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.24E+00	488	122	0.10	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.79E-01	345	86	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.59E-01	220	55	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.94E-01	155	39	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.96E-01	116	29	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.34E-01	92	23	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.92E-01	75	19	0.02	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.61E-01	63	16	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.38E-01	54	14	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.20E-01	47	12	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.07E-01	42	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.50E-02	37	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.60E-02	34	8	0.01	0.00

Field Data for 10:50 to 11:00		Cloud Travel Time	Cloud Arriva Time	Iodines	wind	Dep.	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q	T+min		Total (Q Ci/sec	speed m/sec	Coeffi-cient		Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.64E+00	1432	358	0.29	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.61E+00	632	158	0.13	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.22E+00	481	120	0.10	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.67E-01	341	85	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.51E-01	217	54	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.89E-01	153	38	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.92E-01	115	29	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.31E-01	91	23	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.89E-01	74	19	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.59E-01	62	16	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.36E-01	54	13	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.19E-01	47	12	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.05E-01	41	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.37E-02	37	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.48E-02	33	8	0.01	0.00

Field Data for 11:00 to 11:10		Cloud Travel Time	Cloud Arriva Time	Iodines	wind	Dep.	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q	T+min		Total (Q Ci/sec	speed m/sec	Coeffi-cient		Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.59E+00	1412	353	0.28	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.59E+00	623	156	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.21E+00	475	119	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.55E-01	336	84	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.44E-01	214	53	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.84E-01	151	38	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.88E-01	113	28	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.28E-01	89	22	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.86E-01	73	18	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.56E-01	61	15	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.34E-01	53	13	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.17E-01	46	12	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.04E-01	41	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.24E-02	36	9	0.01	0.00
7	2.77E-07	70	10:10	0.011149	2.682	3.4E-3	1.39E-02	5	1	0.00	0.00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 8c - cont. | RESPONSIBLE CONTROLLER (LOCATION) TSC, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:00 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
PLant Lab and HP Center Data
Radioiodine Deposition by Time
Field Team Data

Field Data for 11:10 to 11:20		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.55E+00	1394	348	0.28	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.56E+00	615	154	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.19E+00	468	117	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.44E-01	331	83	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.37E-01	211	53	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.79E-01	149	37	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.84E-01	112	28	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.25E-01	88	22	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.84E-01	72	18	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.54E-01	61	15	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.33E-01	52	13	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.16E-01	45	11	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.02E-01	40	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.12E-02	36	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.26E-02	32	8	0.01	0.00

Field Data for 11:20 to 11:30		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.50E+00	1376	344	0.28	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.54E+00	607	152	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.18E+00	462	116	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.33E-01	327	82	0.07	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.30E-01	208	52	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.74E-01	147	37	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.81E-01	110	28	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.22E-01	87	22	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.82E-01	71	18	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.52E-01	60	15	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.31E-01	51	13	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.14E-01	45	11	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	1.01E-01	40	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	9.00E-02	35	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.15E-02	32	8	0.01	0.00

Field Data for 11:30 to 11:40		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.46E+00	1359	340	0.27	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.53E+00	599	150	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.16E+00	457	114	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.22E-01	323	81	0.06	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.23E-01	206	51	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.69E-01	145	36	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.77E-01	109	27	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.19E-01	86	22	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.79E-01	70	18	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.51E-01	59	15	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.29E-01	51	13	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.13E-01	44	11	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	9.97E-02	39	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	8.89E-02	35	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	8.05E-02	32	8	0.01	0.00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
8c - cont.	TSC, MUDAC, and HP Center

VALID FOR TIMES OF:								
REAL TIME	8:00	☐ AM ☐ PM	TO	14:30	☐ AM ☐ PM	DRILL TIME	0:00 HOURS	TO 6:00 HOURS

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	PLant Lab and HP Center Data Radioiodine Deposition by Time Field Team Data

Field Data for 11:40 to 11:50		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.42E+00	1342	336	0.27	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.51E+00	592	148	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.15E+00	451	113	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.12E-01	319	80	0.06	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.17E-01	203	51	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.65E-01	143	36	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.74E-01	108	27	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.16E-01	85	21	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.77E-01	70	17	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.49E-01	58	15	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.28E-01	50	13	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.11E-01	44	11	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	9.85E-02	39	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	8.78E-02	35	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	7.95E-02	31	8	0.01	0.00

Field Data for 11:50 to 12:00		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.38E+00	1327	332	0.27	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.49E+00	585	146	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.13E+00	446	111	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	8.03E-01	315	79	0.06	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.11E-01	201	50	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.60E-01	142	35	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.71E-01	106	27	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.14E-01	84	21	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.75E-01	69	17	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.47E-01	58	14	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.26E-01	50	12	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.10E-01	43	11	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	9.73E-02	38	10	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	8.68E-02	34	9	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	7.86E-02	31	8	0.01	0.00

Field Data for 12:00 to 12:10		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.34E+00	1311	328	0.26	0.07
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.47E+00	579	145	0.12	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.12E+00	441	110	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	7.94E-01	312	78	0.06	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	5.05E-01	198	50	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.56E-01	140	35	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.68E-01	105	26	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.11E-01	83	21	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.73E-01	68	17	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.45E-01	57	14	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.25E-01	49	12	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.09E-01	43	11	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	9.62E-02	38	9	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	8.58E-02	34	8	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	7.77E-02	31	8	0.01	0.00

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91 | PAGE ____ of ____

SHEET NO. 8c - cont. | RESPONSIBLE CONTROLLER (LOCATION) TSC, HUDAC, and HP Center

VALID FOR TIMES OF: REAL TIME 8:00 ☐AM ☐PM TO 14:30 ☐AM ☐PM | DRILL TIME 0:00 HOURS TO 6:00 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
PLant Lab and HP Center Data
Radioiodine Deposition by Time
Field Team Data

Field Data for 12:10 to 12:30		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.23E+00	1270	317	0.25	0.06
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.43E+00	560	140	0.11	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.09E+00	427	107	0.09	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	7.68E-01	302	75	0.06	0.02
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	4.89E-01	192	48	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.45E-01	135	34	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.59E-01	102	25	0.02	0.01
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	2.05E-01	80	20	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.68E-01	66	16	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.41E-01	55	14	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.21E-01	47	12	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.05E-01	41	10	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	9.31E-02	37	9	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	8.31E-02	33	8	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	7.52E-02	30	7	0.01	0.00

Field Data for 12:30 to 13:00		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.14E+00	1232	308	0.25	0.06
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.38E+00	544	136	0.11	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.05E+00	414	104	0.08	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	7.46E-01	293	73	0.06	0.01
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	4.74E-01	186	47	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.35E-01	132	33	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.51E-01	99	25	0.02	0.00
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	1.99E-01	78	20	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.63E-01	64	16	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.37E-01	54	13	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.17E-01	46	12	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	1.02E-01	40	10	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	9.04E-02	36	9	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	8.06E-02	32	8	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	7.30E-02	29	7	0.01	0.00

Field Data for 13:00 to 13:30		Cloud Travel Time T+min	Cloud Arriva Time	Iodines Total (Q Ci/sec	Wind speed m/sec	Dep. Coeffi-cient	uCi/ m^2	cpm /Probe Area		mRad/hr	
Distance Miles	CHI/Q							Ground Level	Waist Level	Ground Level	Waist Level
0.5	1.19E-05	5	9:05	0.066956	2.682	3.4E-3	3.05E+00	1199	300	0.24	0.06
1	5.25E-06	10	9:10	0.066956	2.682	3.4E-3	1.35E+00	529	132	0.11	0.03
1.2	4.00E-06	12	9:12	0.066956	2.682	3.4E-3	1.03E+00	403	101	0.08	0.02
1.5	2.83E-06	15	9:15	0.066956	2.682	3.4E-3	7.26E-01	285	71	0.06	0.01
2	1.80E-06	20	9:20	0.066956	2.682	3.4E-3	4.62E-01	181	45	0.04	0.01
2.5	1.27E-06	25	9:25	0.066956	2.682	3.4E-3	3.26E-01	128	32	0.03	0.01
3	9.54E-07	30	9:30	0.066956	2.682	3.4E-3	2.45E-01	96	24	0.02	0.00
3.5	7.54E-07	35	9:35	0.066956	2.682	3.4E-3	1.93E-01	76	19	0.02	0.00
4	6.17E-07	40	9:40	0.066956	2.682	3.4E-3	1.58E-01	62	16	0.01	0.00
4.5	5.18E-07	45	9:45	0.066956	2.682	3.4E-3	1.33E-01	52	13	0.01	0.00
5	4.45E-07	50	9:50	0.066956	2.682	3.4E-3	1.14E-01	45	11	0.01	0.00
5.5	3.88E-07	55	9:55	0.066956	2.682	3.4E-3	9.95E-02	39	10	0.01	0.00
6	3.43E-07	60	10:00	0.066956	2.682	3.4E-3	8.80E-02	35	9	0.01	0.00
6.5	3.06E-07	65	10:05	0.066956	2.682	3.4E-3	7.85E-02	31	8	0.01	0.00
7	2.77E-07	70	10:10	0.066956	2.682	3.4E-3	7.10E-02	28	7	0.01	0.00

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.	Exercise '91	PAGE ____ of ____
SHEET NO. 9	RESPONSIBLE CONTROLLER (LOCATION) ALL	

VALID FOR TIMES OF:
REAL TIME 0845 ☐ AM ☐ PM TO 1430 ☐ AM ☐ PM
DRILL TIME 0000 HOURS TO 0545 HOURS

ASSOCIATED WITH MESSAGES

INFORMATION APPLIES TO
SITUATIONAL EVENT DATA INDEX

DATA SHEET	ITEM
9A	Initial Conditions on Refuel Floor
9B	PET or OSC Response to RHR-P-2B Failure
9C	PET or OSC Response to RHR-P-2C Failure
9D	OSC Response to RHR-V-116

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO. Exercise 91	PAGE ____ of ____
SHEET NO. 9a	RESPONSIBLE CONTROLLER (LOCATION) PET CONTROLLER

VALID FOR TIMES OF:

REAL TIME 0845 ☐ AM ☐ PM TO 0900 ☐ AM ☐ PM

DRILL TIME 0000 HOURS TO 0015 HOURS

ASSOCIATED WITH MESSAGES: Scenario Message #2

INFORMATION APPLIES TO: Initial Conditions on Refuel Floor

The PET Controller should meet with the Shift Support Supervisor and the Crew (Players) in the Radwaste Control Room to discuss this information, and prepare for the opening event of the Exercise.

Using the following background information, the participating Shift Support Supervisor will call the Control Room (Simulator) X8978 at 0857, and act out the following scenario.

As the on-duty Refuel Floor Supervisor, you are on the refueling bridge with your crew, talking to the Shift Manager in the Control Room. You are giving the Shift Manager a status report of your activities. You are in the process of moving an ANF Lead Test Assembly (UD 4145) from its position in the spent fuel rack to the south fuel preparation machine. (Refer to the vendor fuel inspection plan; attached to Initial Data Sheet 1d.) You are in the process of raising bundle UD4145 when the bridge operator's headset cord catches on the refueling platform trolley motion switch and causes the trolley to lurch to the side. This motion causes the bundle, which is nearly out of the rack, to be sheared. As it is sheared, you notice bubbles being released from the bundle, and shout a surprized exclamation such as "Oh my GOD, we jsut broke a fuel bundle in half!" You follow up this exclamation to the Shift Manager with a description of the sudden movement, and the large bubbles reaching the surface of the fuel pool with a boiling effect. At this time, the Area Radiation Monitors begin to alarm, and you inform the Shift Manager that you and the crew are evacuating the area, and going to the OSC. On your way down the stairs of the Reactor Building, you hear and feel the Reactor Building ventilation system shutdown.

Because the simulator will provide a "Z" signal and high area radiation alarms at 0900, it is important that this conversation with the Shift Manager and these alarms coincide.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

L NO.		PAGE
Exercise 91		____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
9b	OSC CONTROLLER & PET CONTROLLER

VALID FOR TIMES OF:							
REAL TIME	0900	☐ AM ☐ PM	TO	1400	☐ AM ☐ PM	DRILL TIME 0015 HOURS	TO 0515 HOURS

ASSOCIATED WITH MESSAGES:	INFORMATION APPLIES TO
Scenario Message #7	PET or OSC Response to RHR-P-2B failure

When the OSC is asked by the Control Room or TSC to assertain why RHR-P-2B is not working, they will put together a re-entry team or Plant Emergency Team and go out to the pump. They should be allowed to do this, and when they get there, the controller should tell them that the coupling between the motor and the shaft has failed. As they inspect the coupling further, they realize the shaft is also bent, and a quick fix of just replacing the coupling will not be possible.

It is important to make sure the players abandon this solution as quickly as possible, because we want them to focus on the Standby Service Water cross-tie to the core as the ultimate solution for this scenario. If they attempt to solve this problem other than anticipated in this scenario, the controller will need to be creative, and make up other implausable situations that will frustrate them into seeking another solution to core cooling. If all else fails, the controller should simply direct them to seek other solutions, because this one will not be successful.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
Exercise 91	____ of ____

SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION)
9c	OSC CONTROLLER & PET CONTROLLER

VALID FOR TIMES OF:							
REAL TIME	0900	☐ AM ☐ PM	TO	1400	☐ AM ☐ PM	DRILL TIME 0015 HOURS	TO 0515 HOURS

ASSOCIATED WITH MESSAGES:	INFORMATION APPLIES TO
Scenario Message #7	OSC Response to RHR-P-2C failure

When the OSC is asked by the Control Room or TSC to assertain why RHR-P-2C is not working they will use the re-entry team to inspect the pump. They should be allowed to do this, and when they get there, the controller should tell them the upper part of the room is full of a dark gray smoke, and the room smells of burnt electrical insulation. Upon closer inspection of the pump motor, they observe smoke coming out of the top of the motor, and the top bearing assembly is al black on the outside. If they continue to ask questions, and do not get the message that the moto must have burned up, tell them it is burned up, and can not be used.

Again, as in situational data sheet 2, it is important to make sure the players abandon this solutio to core cooling as quickly as possible, because we want them to focus on the Standby Service Water cross-tie to the core as the ultimate solution for this scenario. If they attempt to solve this problem other than anticipated in this scenario, the controller will need to be creative, and make up other implausable situations that will frustrate them into seeking another solution. If all else fails, the controller should simply direct them to seek other solutions, because this one will not be successful.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 91		PAGE ____ of ____
SHEET NO. 9d	RESPONSIBLE CONTROLLER (LOCATION) OSC CONTROLLER & PET CONTROLLER	

VALID FOR TIMES OF:
REAL TIME 0900 ☐ AM ☐ PM TO 1400 ☐ AM ☐ PM
DRILL TIME 0015 HOURS TO 0515 HOURS

ASSOCIATED WITH MESSAGES: Scenario Message #7

INFORMATION APPLIES TO: OSC Response to RHR-V-116 failure

When the OSC is asked by the Control Room or TSC to ascertain why RHR-V-116 will not open, they will use the re-entry team to inspect the valve. They should be allowed to do this, and when they get to the area of the valve, the controller should tell them there are no external signs of damage. The motor turns, but the valve does not move. The cause of this is the stem drive nut has become unstaked, and is loose on the shaft. The controller must be very creative with this part of the exercise, and keep the crew interested in solving this problem. It may require the replacement of parts.

NOTE: A prop will be provided for the players to use under the direction of the controller.

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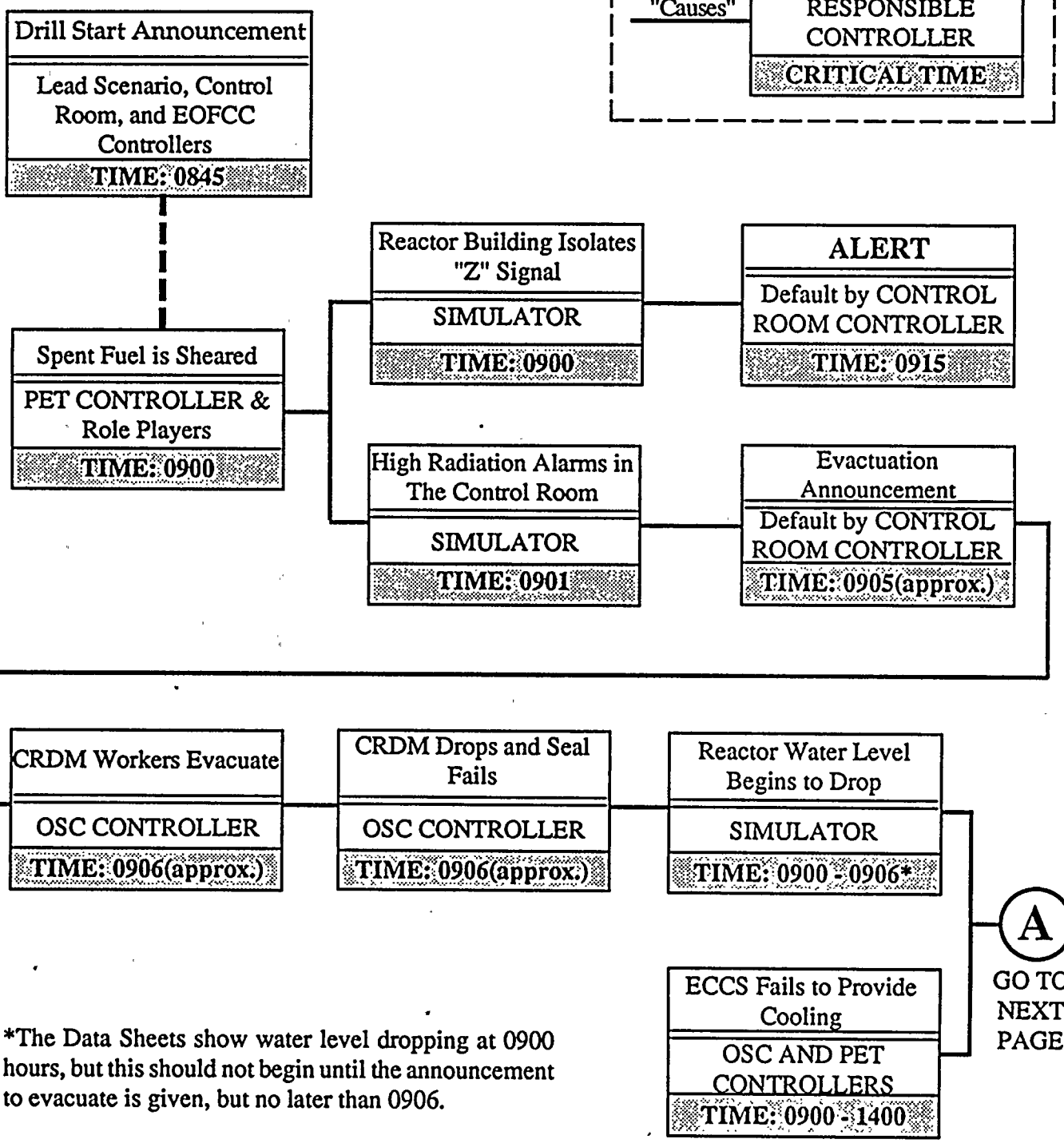
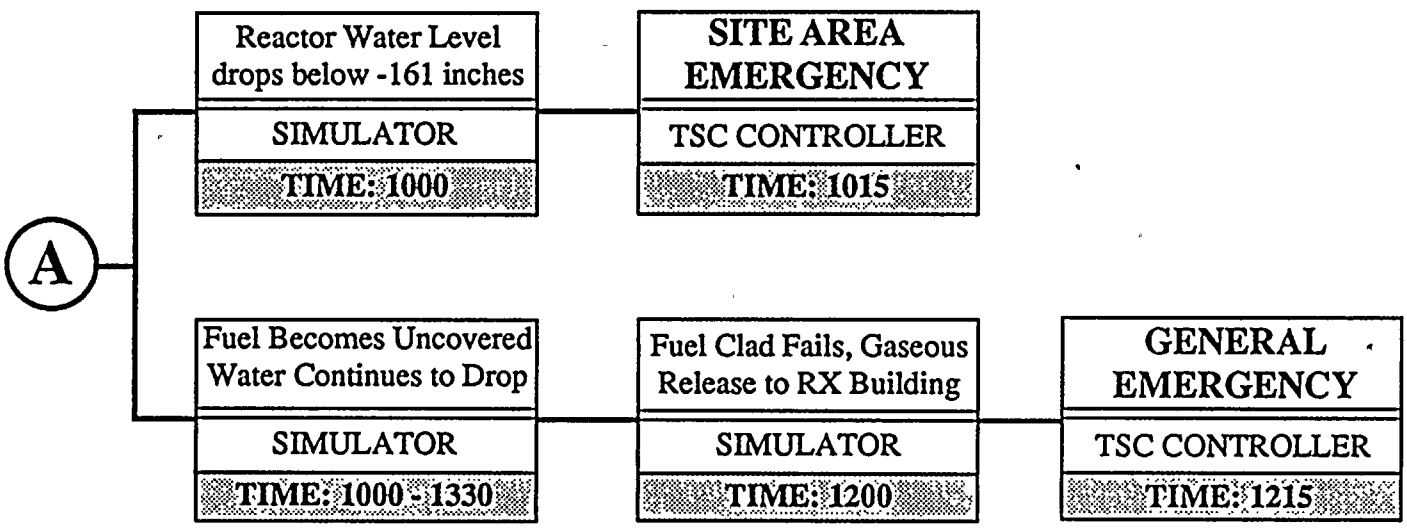
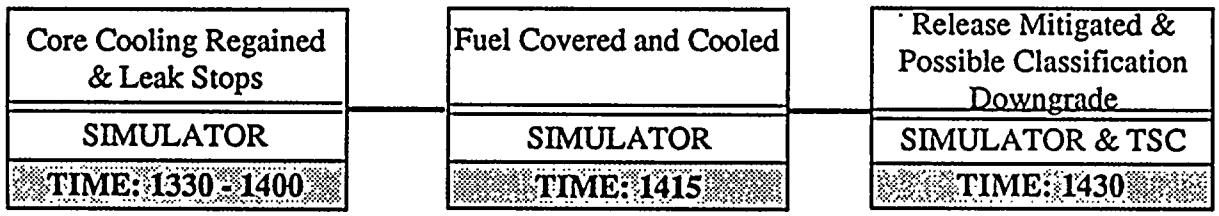
SECTION IIF
CRITICAL POINTS
EXERCISE '91

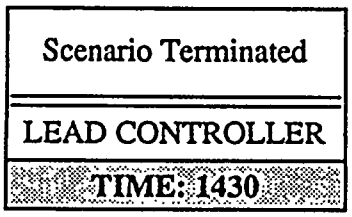


*The Data Sheets show water level dropping at 0900 hours, but this should not begin until the announcement to evacuate is given, but no later than 0906.

SECTION IIF
CRITICAL POINTS
(CONTINUED)







PART III

EVALUATOR CONTROLLER INSTRUCTIONS

EXERCISE '91

CONTROLLED DISTRIBUTION

CONTENTS

CONTROLLED DISTRIBUTION

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

SECTION III A

EXERCISE DIRECTOR PRE-EXERCISE CHECKLIST

EXERCISE '91

ACTION	INITIALS
Meeting Schedules Distributed	_____
Meeting Rooms Scheduled	_____
Controller / Evaluator assignments completed	_____
Controller / Evaluator training completed	_____
Scenarios issued / logged	_____
Controller/Evaluator briefings completed	_____
Prepositioned role players identified & briefed	_____
Props acquired and in place	_____
Verify CIS has distributed Emulator Access Codes to MainD to the TSC, MUDAC, TDC & SSDC	_____
Commissary arrangements (donuts, coffee, lunches) complete	_____
Special player "Pager Duty Roster" to EOFCC	_____
EOFCC Notified they will blow local sirens during Exercise when it is appropriate to do so	_____
Controller assembly role call & controller network phone number verifications	_____
Synchronization of clocks & watches	_____
Management permission obtained to begin	_____
Predrill checklist completed	_____

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SECTION III-B

GENERAL EVALUATOR/CONTROLLER INSTRUCTIONS

EXERCISE 91

A. **Exercise Preparation:** Under the supervision of the exercise director, the following will *normally* be accomplished prior to the exercise:

1. Completion of the scenario package.

2. Arrangements for required facilities, including for the larger drills and the exercises, use of the simulator.

3. Validation run of the scenario on the simulator, and the loading of scenario data on the graphics display system emulator.

4. Scheduling of pre- and post-exercise meetings with evaluators/controllers and players, and evaluator/controller training for those not certified.

5. Procurement of props, realistic staging of casualty areas and briefings of any role players. However, neither actual plant operations, security or personnel safety are to be jeopardized.

6. Administrative and logistical arrangements, e.g., pager carrier duty roster revisions, controller and simulator communications set up, coffee and doughnuts contract, etc.

B. **Exercise Meetings for Evaluators and Controllers:** There will normally be two meetings:

1. A exercise package issue and overview meeting will be conducted for all evaluators/controllers; such things as objectives, limitations, schedules, evaluator/controller assignments, scenario introduction, the organization of scenario forms, messages, anticipated responses, general data sheets, critical points, and special evaluator/controller instructions will be covered.

2. Evaluator/controller team breakout sessions will be conducted for all evaluators/controllers covering such things as specific messages, data input, event evaluation assignments, team communications, documentation and other coordination matters.

C. **Exercise Players Briefings:**

1. A briefing on the exercise activities will be conducted for preassigned players, generally covering Part I of the exercise package. An excerpt, consisting of Part I, can be issued as a handout. Topics should include: introduction, schedule, player positions to be activated, instructions for players, any recent procedural changes and any special coordination matters. A synopsis of current Plant Conditions may be disseminated at this time.

2. Informal table top drills may also be conducted prior to an exercise to review center/team operations, procedures, etc. However, specifics on the particular exercise scenario are not to be compromised.

D. **Exercise Evaluation and Control:**

1. Scenario Inputs:

   Scenario messages and data will be provided to the players by controllers or controller in control cells in as realistic a manner as possible. For example, a controller may call the Shift Manager and role-play as the BPA dispatcher with a scenario message; a controller may provide simulated radiation readings to a reentry team HP technician from a scenario package data sheet if commensurate with the type and scale setting of the instrument being used. Controllers do not provide conclusions, they furnish simulated sensory inputs, e.g., if the portrayed emergency condition actually existed, what would be seen, heard, smelled, etc.

2. Scenario Deviations:

   a. Controllers seeing a need to modify the scenario should inform their team lead controller, who will contact the exercise director.

   b. Only the exercise director has the authority to start, stop or deviate the scenario. Scenario deviations, especially on the larger drills and the exercises are to be infrequent and only implemented after thorough coordination, to include with any lead federal evaluators and lead offsite agency controllers. The director is also responsible for arbitrating any jurisdictional or interagency disagreements which may occur during the exercise.

3. Performance Evaluation:

a. Player task performance must be closely monitored by evaluators, as well as controllers as long as it does not interfere with their controller functions. Action taken should be compared with anticipated responses and procedural guidance. Evaluator logs are to be used to record observations. Center/team documentation should also be checked to purify the chronology of events and for correctness.

b. Interference by evaluators/controllers with player actions should be minimized, with questioning restricted to slack times and the immediate critique session right after the exercise, with the following major exceptions:

- o Safety - Evaluators/controllers will immediately intervene to prevent or mitigate any unsafe condition or act..
- o Major scenario deviation - If the players depart from the anticipated responses to the extent successful run of the scenario, and the meeting of exercise objectives, is jeopardized.
- o **During drills only,** for brief, on-the-spot informal training to address incorrect task performance. *This is NOT permitted during graded exercises.*

c. The reasons for incorrect task performances must be captured for proper preparation of the exercise critique. This normally requires thorough questioning of the individual(s) involved.

E. Critiques

1. Immediate In-Center Critique Sessions:

Conducted in the center by the lead controller immediately after the exercise, this informal session will be used to provide the players with feedback, ensure Center Director/Manager is aware of his/her responsibility to return center/team equipment to readiness state, resolve issues, complete any informal training and ascertain any systematic reasons behind unfavorable observations. For some findings it may be necessary to conduct a category 3 Root Cause Analysis (RCA) pursuant to PPM 1.3.48. The key is to determine the "why" of

each unfavorable observation involving personnel error that indicates a problem with the system, e.g., improper procedural step, poor personnel selection for the position, ambiguous training, etc. Lead Controllers are to collect all logs, After-Action Reports, and administrative paper work for delivery at the formal critique session.

2. Formal Critique Work Session:

Normally conducted the day after the exercise, this session involves two phases:

a. Specific center team breakout sessions for all evaluators/ controllers will be held during this day. During these sessions observations are discussed, researched with players and drafted up on the critique work sheets as either favorable and unfavorable observations. Time-line inputs and answers to specific evaluation questions will be assembled during this time. Necessary RCA's with the players if present will be completed at this time, to assure a reason for each unfavorable finding is ascertained using the RCA flow sheets. Final team/center documentation and CARs will be prepared for submission by the Lead Controller. ***Key players may also be called to participate in these sessions.***

b. In the afternoon a center lead controller session is held, team inputs are discussed and submitted, appropriate observations are consolidated, assignments are made for any required follow-on actions and issues are identified and categorized for the written formal critique. Again, key players may be requested to be present.

3. Written Critique:

The exercise director will disseminate a written critique usually within 30 days of the exercise. The critique will normally consist of:

Part I - Chronology: A time line of the major scenario and player response activities.

Part II - Assessment of Exercise Objectives: An identification of any of the objectives that were not met and the reasons.

Part III - Favorable Observations: Any noted display of special initiative or judgement meeting one of the two following definitions:

- o Exceptional Performance - A display of initiative or judgement that exceeds procedural requirements to mitigate emergency conditions.

- o Noteworthy Performance - A display of procedural initiative or judgement that is performed with a high degree of efficiency to mitigate an emergency condition.

Part IV: Corrective Action Records: Unfavorable findings divided by severity as defined below, as well as by those already closed out (normally involving isolated personnel errors) and those still requiring action (normally involving needed equipment, procedure, software, training, etc., fixes).

In categorizing the severity of exercise findings, the potential significance of the concern under investigation should not be minimized by the possibly limited scope of the scenario. The concern should be extrapolated out to determine the potential total impact under a worse case real event situation:

a. **Major Deficiencies:** Observed inadequacies that preparedness is not adequate to provide reasonable assurance for the health and safety of the public, and/or that of emergency workers.

b. **Minor Deficiencies:** Findings which have emergency response impact but do not adversely impact the health and safety of the general public or of emergency workers.

c. **Items of Clarification:** Findings which do not have an adverse impact on health and safety, but would enhance an organization's level of emergency preparedness.

Part V - Informational Observations: Major points that warrant consideration but do not meet the criteria for unfavorable findings, e.g., efforts directed by a center staff did not appear to be in the most efficient sequence. These do not require resolution or tracking. For critiques of exercises and the larger drills, the critique may simply make reference to a separate report disseminating informational observations to interested parties.

Part VI - Participants: A listing of all recorded participants who are to receive credit for the activity.

Part VII - Minority Opinion - In the unlikely event some evaluators/ controllers take exception to the content of the report, their minority opinion will be stated here.

SECTION III C

SPECIAL EVALUATOR/CONTROLLER INSTRUCTIONS

EXERCISE '91

A. CONTROL

1. **Player Response:** Players at all of the different emergency centers are to interact with one another as if the simulated situations actually exist. However, communications that would be initiated to individuals and agencies not actually playing in the exercise, e.g., BPA, Hanford Patrol, National Weather Service, etc., are to be made to controllers in the control cell who will role play the parts.

2. **Coordination:** Lead controllers at each of the emergency centers will be linked by telephones set aside for that purpose. This will be used for exercise control coordination, such as to resolve problems or make needed scenario deviations. A controller communications listing is attached.

3. **Player Participation:** For additional players the current players want to use who would not normally be at the plant under the given exercise conditions, inject a one-hour response delay time before the additional player(s) are allowed to be used.

B. RECORD KEEPING

1. **Logs:** Evaluator log forms are at the "Evaluator Logs" tab. Also, you may write observations on the message forms, anticipated response forms or data sheets.

2. **Times:** Accurate times are important. Call the simulator at X-8942 *(Reactor Operator's Desk)* to set your watch to the official exercise time. Do this after hearing the PA announcement that the Exercise has started to ensure you will recieve an answer on the phone.

3. **Participants:** Player and Controller/Evaluator listings at Part I for your center should be documented for "credit" purposes. Special attendance records should be signed by each player during the exercise. These records are to be turned in at the formal critique work sessions.

C. CRITIQUE PREPARATION: Part I of this package contains the critique and work session schedule.

D. ATTACHMENTS

1. Controller Communications Listing
2. Control Cell Operations
3. Evaluator/Controller Sessions
4. Players Briefing
5. Exercise Root Cause Determination Process.

ATTACHMENT 1, SECTION III C

CONTROLLER COMMUNICATIONS LISTING

EXERCISE '91

AREA	CENTER/POSITION	PERSON	PHONE
Plant	Actual Control Room Controller	On-Duty CRS	377-2348
	OSC - Lead Controller	DL Anderson	377-2730
	TSC - Lead Controller	RJ Barbee	377-2310
	CAS - Lead Controller	AC Ware	377-2089
	Simulator - Lead Controller	TBD	377-8332
	Lead Scenario Controller	JA Landon	377-8332
EOF	SSDC - Controller	TBD	377-8181
	EOFCC - Controller	S Morris	377-8228
	OACC - Controller	WA Kiel	377-8071
	TDC - Controller	AT Chiang	377-8092
	MUDAC - Lead Controller	VE Shockley	377-8191
	HP Center - Controller	RL Wardlow	75 *(PSF Page)*
Drill Command Center	Drill Director	JA Landon	377-8332
	Control Coordinator	TBD	377-8178
HQ	JIC - Lead Controller	RL Romanelli	372-5860
	Control Cell - Lead Controller	GO Ray	372-5346

CELLULAR PHONES

FIELD TEAM CONTROLLER PHONE NUMBERS OF RESPECTIVE VEHICLES

PHONE	LICENSE#	NOTE:
948-0485	C58462	*CONTROLLERS CALL MUDAC @ 377-8191*
948-0484	C58614	
948-0483	C58468	

CELLULARS ARE FOR THE USE OF CONTROLLERS ONLY
notes & exceptions . . .

In an emergency or failure of radios during the Drill, the cellulars may be used by the players.

Cost is expensive, limit use accordingly.

Controllers need to have hands-on training (10 minutes)

ATTACHMENT 2, SECTION III C

CONTROL CELL OPERATIONS

EXERCISE '91

A. GENERAL: The control cell is made up of controllers, whose function it is to role-play as the various agencies and individuals not activated for the exercise, but with whom the players would normally interface. Communications are initiated both ways. For example, a MUDAC player may need to call the National Weather Service for a weather forecast. Instead he should contact the control cell where a controller, role-playing as a forecaster, would read from a data sheet the "canned" exercise weather. Also, controllers may call one of the emergency centers with a scenario message input. Most of the calls, however, will be initiated by controllers to the centers heavily committed to outside interfaces, *e.g., JIC phone teams.*

B. PARTICIPATING AGENCIES: The control cell should not represent organizations or individuals activated for the exercise. Those include:

1. All Plant emergency centers

2. The EOF, with possibly limited personnel from State, counties.

3. The Headquarters/JIC, including State and possibly counties.

4. The State and Benton/Franklin Counties EOC's, and DOE's ONC as control cells at each location.

5. The Nuclear Regulatory Commission and FEMA.

C. METHODOLOGY

1. Incoming calls:

   a. Try to keep designated lines clear of other traffic.

   b. Answer by stating the phone number and "this is an exercise." Then ask, "To whom do you wish to speak?"

   c. Portray the agency/individual being called as realistically as possible.

   d. Terminate the conversation with the phrase, "This is an exercise."

2. Outgoing calls:

   a. We are reducing the need for pre-scripted messages. Instead:

1) Assume an assigned personality from Enclosure 1. Do not use names of real people.

2) Formulate a call with questions based on designated rumors, EBS broadcasts, news releases, lead controller assigned topics and other information provided by players. At the end of each section in Enclosure 1, there are a few practical examples of how you should formulate your questions.

3) Make the call. Start and end each call with the statement, "This is an exercise."

4) Log the call at Enclosure 2. Include *all specifics* of any call not evaluated as satisfactory.

5) For public information calls, remember local media will react first. The public will react to what they hear from the media.

6) Make calls plausible. Switch personalities as appropriate.

7) Try to keep phone talkers busy with information search requirements. Request call backs and follow up on open items.

8) The FEMA standard is 5 or 6 phone calls per person *(player)* per hour, including periodic rumors. Phone team members should be able to:

- o Answer questions by reading from news releases and radio announcements *(EBS messages)* at hand;
- o Look up information in resource books and read/repeat such information [1];
- o Dispel rumors based on emergency calendar, farm brochures, EBS messages and news releases.

Phone teams should not speculate or answer *'what if'* questions. FEMA has indicated to the Supply System that most phone calls would be because they *(the callers)* didn't hear the EBS message. The phone teams should expect to get a great volume of the same exact question. FEMA has indicated that it would be **totally inappropriate** to expect phone team members to explain or to discuss any technical information or issues. In

[1] The Table of Contents in the resource book has been redone for easier access to information by users.

addition, information need not be memorized, but team members should be able to look up information and to read directly from the resource book. FEMA has also suggested that if repeat questions occur *(more than three calls asking the same question)*, obviously the public is interested in knowing. Therefore, steps should be taken to get answers included in press releases, etc.

D. **NEWS CONFERENCES:** Designated controllers will attend JIC news conferences to role play as media. They are to adhere to the criteria above for outgoing calls.

E. **NEWS CLIPPINGS:** JIC phone team controllers, be prepared to write news stories on the event for processing by the JIC staff. Use Enclosure 3.

F. **NRC CALLS:** Keep players busy researching answers to specific questions. Imagine what it really would be like!

G. **CRITIQUE:** Write up critique work sheets for favorable and unfavorable observations, based on phone call and news conference evaluations, and turn them in to the lead controller.

H. **TELEPHONE NUMBERS:**

1. NRC:

o	Control Room (Simulator)	8978
o	TSC Plant/NRC Liaison	2943
o	EOF Licensing Manager	8087

2. JIC:

o	Media Response Team	5100
o	Public Information Team	5011

3.	Benton/Franklin Counties EOC *(Kennewick City Hall)* [2]:	586-1451 X264
4.	State EOC *(Olympia)* (ask for EOC):	78-234-5255 1-206-753-5255 1-206-459-9191

[2] Refer to enclosure 4 for a listing of individuals/groups you could expect to find at the County EOC, including their position/group responsibilities. When calling the EOC, ask for the individual/group by their title.

ENCLOSURE 1, ATTACHMENT 2, SECTION IIIC

CONTROL CELL OPERATIONS

CONTROLLER PERSONALITIES

EXERCISE '91

1. **Television:**

   a. KDTV Channel 88--Tri-Cities. Local TV station. You're young, ambitious, and want to make a name for yourself. Dan Rather or Connie Chung is your role model. You see the Tri-Cities as a stepping stone to bigger things. You would like to be aggressive but know your employer and audience are sympathetic to Hanford so you have to be careful how you make a splash.

   b. KDKT Channel 34. Local TV (see KDTV, above) You're the same but more aggressive. You're the kind who would send a crew to location without asking for permission. If asked to leave, you'd read them your rights. "Police can't interfere with normal news gathering in public places. The people have a right to know." Leave only when threatened with arrest by Hanford Patrol or if seduced with better opportunities by the Public Relations staff. The way you are treated will color your story.

   c. KPPR Channel 99. Local TV station. You don't have too much invested in your career. You see you're not going to go very far in broadcasting. You feel pretty neutral about Hanford. You know it's not anywhere as bad as you sometimes read in west side papers.

   d. KTAC Channel 2. Seattle-Tacoma TV. You want television footage but you can't afford to send a crew over. Being broadcast media you don't have much time for detail, you want drama.

   e. KSEA Channel 4. Seattle. WOW! This is a great story. Hanford Terror. You want pictures. You are going to send your camera crew over by helicopter in about two hours. You hear that Supply System Security has an armored car. You want to take pictures of blood and guts, if not that then a look of pure terror in a child's face will do. You understand that TV news is entertainment. You're not in competition with the newspapers and other news shows, you're in competition with "The Equalizer,". "Miami Vice," and "Tour of Duty."

Practical Examples of TV Personalities

- Wanda Wilson, KVEW TV--"We would like to bring a camera crew out to Plant 2. What's the probability of getting some video shots? Where can we shoot film? When our crew gets out there, who would be available to talk to us? How about anyone from the NRC? The Supply System regularly holds news conferences in the Headquarters auditorium, right? When's the next one? What's the situation at the Plant right now?"

- Sandy Spencer--KNDU TV, TriCities. "Has the NRC involved itself in the situation? . . . What is it doing? . . . Do you have the names of those representatives? . . . Any chance I can talk to one of them? . . . How about the state of Washington? . . . Who is down from the Governor's office? What's the latest condition at Plant 2? . . . Who makes the next decision about what to do next? - The State or the NRC? . . . Someone mentioned a group called FEMA . . . I'm not familiar with that . . . Who is it and what do its people do? . . . Are FEMA people there now, too?"

- Joe Johnson--KREM TV, Spokane. "Has the wind dropped off yet? . . . What kind of damage did it do? In connection with the problems at the Plant, what effect did the wind have? What's the current situation there? Where are you headed next? Who's in charge of the problem? . . . What is his regular role at the Supply System? . . . What's his background? . . . Can you tell me how long he has been with the Supply System?"

- Vicki Veneer--CBS TV News Network. "I'd like to get more information about Plant 2. What is the present situation? What is being done about it? Please give me the names of the people making the decisions about the actions to be taken . . . Give me some background on these decision-makers. Is anyone from the NRC personally monitoring the situation? May I have their names, please? What other federal or state agencies are activated? Are any representatives from Idaho or Oregon present? . . . Why *(or Why Not)*?"

- Karen Kanderly--KOMO TV. "We're hearing the situation has deteriorated to the point that the area agricultural industry could be impacted seriously . . . Crops have been buried . . . deadened soil . . . Things like that . . . "

- KHG TV, Spokane. *(Somewhat aggressive)* "We've been trying all day to get an interview with your Plant Manager. WHEN are we going to get some cooperation? . . . It seems to us that *WHOOPS* might want to put their best expert forward at a time like this . . . someone who is really going to know what's going on. Can we go to your plant and look at it for ourselves? . . . So, we can't talk to your Plant Manager and we can't go to your plant . . . What are you folks trying to hide?" . . . *(Challenge the qualifications of anyone they offer as a substitute spokesperson, e.g. - What is his/her*

background with nuclear energy? - this person isn't going to know Plant 2 like the Plant Manager does, etc.)

- o Joan Justy--CBS TV News Network. "Tell me about the airplane engine falling on your plant . . . Apparently American nuclear power plants are susceptible to falling objects even as small as an airplane engine? . . . Aren't the airspaces over these plants protected? . . . Has anyone considered what would happen if a bomb were dropped? . . . You sound pretty vulnerable . . . Has anyone got the footage of the engine falling on the plant?"

- o Brad Burke--KING TV, Seattle. "I've received a report that very high radiation dose readings were taken at someplace called the Ashe Substation . . . I presume the substation is a part of the Bonneville Power Grid System, correct? . . . Where is it located in relation to your Plant 2? . . . Who took those readings, what were those readings, and what is the significance of those readings? . . . How often are dose readings taken? . . . Tell me a little bit more about your field teams taking the readings . . . "

- o Rickie Romanovich--KOMO TV, Seattle. "What role is the NRC playing in this incident? . . . can you give me the names of any NRC people activated on site? . . . Has the NRC gone on record with any statement about conditions at Plant 2? . . . Have they said anything about the future of the American nuclear industry in light of the event at Plant 2? Would you take a moment to describe the Plant to me . . . It contains a Boiling Water Reactor, doesn't it? What else can you tell me about the physical makeup of the plant?"

2. Radio:

   a. WWPZ Radio--Tri Cities. You're older, mature. You know your radio career will probably never take you beyond the Tri-Cities. That's fine because you like it here. A lot of your friends work at Hanford. You know many of the PR people well and know a lot about Hanford. You know they are good folks. You use your reporting as a means to, as much as possible, build a strong community.

   b. KOZY Country Radio--Tri-Cities. You don't have much air time for news. It's something you stick in between Dolly and Kenny Rogers.

   c. KRZY Rock FM--Tri-Cities. See KOZY (#b), but substitute Def Lepard and Kiss for Dolly and Kenny.

   d. National Non-Commercial Radio--You are the reporter for intellectuals. You are interested in the social consequences of government activities. Does a news event represent a trend for the future? What were the underlying causes

of the event? Is the event ultimately good even though it looks bad now? Will it teach us something?

3. **Print:**

a. Columbia Basin Chronicle--Local newspaper. Your editorial policy is friendly to Hanford. You see yourself as a first class science reporter and expect to one day report for a more prestigious paper. You tend to go for a science angle.

b. Spokane Banner--Northwest Regional Paper. God knows what all is going on down there at Hanford. It seems like every rock you uncover down there has a toxic chemical or radioactive rattlesnake under it. You don't know much about modern warfare, world politics, nuclear energy, or technology and you basically distrust those who do. Hanford is especially worrisome. What are they hiding?

c. Seattle Post-Dispatch--Major Northwest Paper. You need flamboyant headlines. Your paper is not so much in to what is true as it is in what sells. You want stories about people and what happens to them. You don't want too many details about science. You don't care about reasons for things, you just want to know what happens to people. You want details of injuries, you want to know personalities, you want to know how people FEEL about things. You don't report about the danger that people are in, you report about how in-danger people FEEL. This makes reporting easy. You don't have to get expert opinion. You can ask the man on the street and his opinion is nearly as good as the governor's.

d. Seattle Prestige Journal--Major Northwest Paper. You want controversy. It doesn't much matter where it comes from, just get it. Find somebody who is upset about something, state his reasons and opinion and then go find another opinion. You like important people--opposing politicians, opposing government agencies, big shots are best. As long as one side of the argument is important it's okay. DOE against a nobody is a story because DOE is important.

e. Associated News--Wire Service. Just the facts. Who did what to who. Who announced what. Ask these questions every time: Who? What? Where? When? How? and Why? Remember, your selling your material to other news media. You have to be very professional. They don't give a hoot about your opinion.

f. United News--Wire Service. See notes on Associated News. The same applies, only you are from the Walla Walla bureau and are pretty well informed on Hanford but don't know too much about Battelle.

g. New York Daily Planet--You're the best. The news is what the New York Daily Planet says is news. All the other papers follow your lead. You know this but are very modest and professional about it. You're interested in the facts of the issue at hand but want lots of background. What led up to the event? What are the likely consequences? Will there be legislative action? What philosophy is guiding the courses of action taken by decision makers? How did the DOE allow this kind of situation to occur?

h. Portland Post--Northwest Major Newspaper. You want to be fair. You want to report both sides of every question. You don't know too much about DOE.

i. American Enquirer--National Tabloid. You don't really want news. You want lurid details. You can make most of them up, but sometimes it's nice to have real photos even if they have to be retouched.

Practical Examples of Newspaper Personalities

o Sandra Smith--UPI, Seattle. "I understand the whole problem at Plant 2 began when pump motors caught fire . . . Well, what started the fire? What about the truck fire earlier? Any question of sabotage? About 20 minutes later your reactor shutdown, correct? . . . What was the connection between the fire and the scram? Who has been contaminated? What is your injury status? How much fuel damage did you experience? Anything else to add?"

o Ronald Reeber--LA Times. "What can you tell me about radiation levels at your plant? Where has the contamination spread? Have Plant personnel been evacuated? Any injuries? Is the NRC going to step in and take over things? What have they been saying? What are the names of the NRC representatives there? Well, things must be pretty serious with the NRC in place. How do things forebode for your nuclear plant in the future? How about ramifications for the nuclear industry?"

o Mary King--UPI Seattle. "Tell me more about why a Site Area Emergency was declared? What are the conditions that require an emergency of this level? There are several classifications, aren't there? . . . Detail them, please. What has been the progression of these classifications at Plant 2? Where will you go next?

o Mandy Motoya--TriCity Herald. "It's my understanding this whole situation started with a fire in something called a standby service water pumphouse.

What exactly is its function and why is it important to the Plant? . . . Wasn't a backup safety system in place? . . . How was the radiation released? . . . For years you've been telling the public radiation releases will never occur at an American nuclear power plant, what is Plant 2's position now?"

- George Gupper--Time Magazine. "How extensive are the damages to your plant? . . . Has any other commercial nuclear power plant in America experienced the same sort of problems? . . . You seem to have had a bad string of luck today, first with the diesel truck fire, then the faulty equipment and now with the plane engine dropping on the reactor building. How do you explain that? . . . Aren't America's commercial nuclear power plants supposed to withstand all sorts of disasters - earthquakes, fires, things like that? . . . How do you think Plant 2 speaks to the record?"

- Melissa Meeker--Seattle Times. "When do you expect repairs to Plant 2 to be complete? . . . What methods of restraint are in place at the Plant now? . . . What is being done to reduce the seriousness of the situation? What outside agencies are playing a role in restoration of the site? How extensive are damages now? Has anyone put a dollar amount on the damage?"

- Manly McGinnis--Aberdeen Daily World. "Did a plane crash into you plant? . . . What happened? . . . Who's involved in evaluating this new situation? . . . Injuries? . . . What about evacuations? - Does that mean the Columbia River could be contaminated to some extent? . . . I'd like to know the environmental impact should the river be exposed to a radioactive plume?"

- Fred Frew--Olympia News. "Let's talk a bit about reparative measures at Plant 2 . . . Do you speculate you'll be bringing in outside expertise from General Electric and Westinghouse? . . . Who was your construction contractor? . . . There will be some construction on site, won't there? What's the extent of physical damages to the building? How long do you think it would take the Plant to get back in operation?"

- Rene Reis--Everett Herald. "Is it true some fuel was uncovered when the airplane engine landed in your reserve fuel water containment system? . . .How much water was splashed out with the impact? . . . It is possible quite a bit of water could have been splashed out . . . How big was the airplane engine? . . . Do you have cubic measurements or weight? What is happening to the radiation level now . . . Does that indicate the nature of the exposure?"

- Jim DellaSelva--Grants Pass Guardian. "Where's the radiation headed? . . . Any changes in weather conditions expected to affect the situation? . . . What would happen if a storm occurred? - And if it rained? What are the weather

conditions right now? What's the forecast for the next couple of days? How long will you restrain evacuated residents from returning to their homes? . . . The weather plays a factor in that decision, too, doesn't it? If the wind stirs up, other areas could be evacuated also, right? . . . Where would you put them? . . . What is *WHOOP's* obligation to these residents? Who pays for their food and medicine involved with the evacuation? What about looters?"

- Bob Brown--The New York Times. "Since these sort of catastrophes are not supposed to occur at commercial nuclear power plants, why is it this one has - to this magnitude - at your plant? . . . What explanation has been given to the American public about this? . . . It doesn't look too good for your plant management, does it? . . . Who is your Chief Executive Officer? . . . May I speak to him, please? . . . Who, in charge, may I speak to? How long have you been in the nuclear power business? . . . What's your background? . . . Does that make you an authority on commercial nuclear power plants? . . . You have quite a responsibility speaking for the Plant, considering your background, don't you?"

4. **Officials**

   a. Richland School District

   b. Pasco School District

   c. Hospital

   d. Adjacent counties--Grant, Yakima, Walla Walla

   e. Senator Wisenhut's Aide--Generally hostile to Hanford

   f. Congressman Gold's Aide--Friendly congressman

   g. ~~NRC--Any personality you have met in this role~~ *(Not for this Exercise)*

   h. Others as appropriate

5. **Local Population**

   a. Worried Spanish-Speaker--Worried about something; make it sound plausible.

   b. Local Nut--Knows how to handle these kinds of situations. Wants to help. Ex-professor, ex-cop, ex-nurse, ex-psychologist, ex-whatever sounds good for the situation. Happy to help out if you want.

c. Local Busybody--Wants to explain personal opinions about issues and what the government/town/people ought to do about it. Tries to hold the attention of whom called for as LONG as possible.

d. Richland day care center operator (outside 10 mile EPZ)

e. Kennewick convalescent home operator (outside 10 mile EPZ)

f. Potential looter--looking for tactical information

g. Concerned citizen

h. Employee's spouse

i. Parent of a child on tour of the WNP-2 Visitor center

j. Resident worried about garden

k. Resident worried about cattle and milch cows

l. Residents worried about missing relatives that live in the evacuation/shelter area

m. Residents worried about what they ate from the neighbour's garden today

n. People calling wanting transportation

o. People calling in because they didn't hear the radio message

p. Residents who want to know who is covering expenses from losses

q. People who lost the calendar wanting to know what to take with them when they leave

r. Mothers wanting to know where their school children are

s. Someone wants to know what the difference in classifications means

t. Others, as appropriate

Practical Example of a Local Populace Personality

o Wife of Plant 2 HP-Chemist. "Why isn't my husband back home? I heard on the radio all unnecessary personnel are being sent home. Where is Mark?"

"You can't tell me that you don't know what's going on out there"

"Why won't you tell me where Mark is? Is he one of the injured people I heard about?"

"Injuries are the types of things press people should know about. Tell me if Mark is among them!"

"Are you hiding something? You media people know everything!"

"Don't give me the run-around. Mark's been a loyal employee for three years. Is this how you pay us back?"

ENCLOSURE 2, ATTACHMENT 2, SECTION III C

CONTROL CELL OPERATIONS

CONTROL CELL PHONE LOG

EXERCISE '91

Controller:_____ Page _____ of _____ Pages

NOTE: *Include all relevant specifics of any response evaluated as unsatisfactory.*

Individual/Team called and the time called	Personality of the caller and evaluation (S/U)	Substance of Inquiry	Substance of Response

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ENCLOSURE 3, ATTACHMENT 2, SECTION III C

CONTROL CELL OPERATIONS

SIMULATED NEWSPAPER CLIPPING

EXERCISE '91

Instructions to Players: *Process this simulated newspaper clipping as if it were the real thing.*

Newspaper:	Date:
CLIPPING TEXT:	

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ENCLOSURE 4, ATTACHMENT 2, SECTION III C

CONTROL CELL OPERATIONS

BENTON/FRANKLIN EOC EMERGENCY POSITIONS EXERCISE '91

Decision Table

Emergency Chairman: *(County Commissioner)*	Makes final decisions
Emergency Management Director:	Very knowledgeable of procedures and gives guidance to Decision Table.
Sheriffs:	Also makes decisions and is responsible for implementing automatic and discretionary actions.
Health Officer:	Assures protective actions for public are acceptable, adequate and effective to minimize public risk. Approves administration of KI to County Emergency Workers. Reviews requests of Emergency Workers to exceed 5 Rem whole body dose.

Implementation Group

Transportation Coordinator:	Coordinate evacuation of schools and handicapped persons.
American Red Cross:	Responsible for opening Emergency Worker Assistance Centers to include responding to Disaster Welfare Inquiries.
Agriculture Representative:	Supports State Agriculture Department to implement food control protective actions to include dissemination of agricultural brochures. Answer queries from public regarding foodstuffs, etc.
District Health:	Assures emergency worker and public radiation exposure is kept at a minimum. Assures equitable workload to area hospitals in treatment of radiologically contaminated or injured patients.

Fire:	Dispatch emergency vehicles and assist in opening emergency worker assistance centers.
Communications Director:	Facilitate communications between County EOC and dispatch. Assure sirens are sounded.
Police:	General - Roadblocks and other LLEA activities.
West Richland Police:	Evacuate ORV and secure Leslie Groves Boat ramp.
Sheriff's Department:	Route alerting, evacuate river, Horn Rapids and the shooting range.
Washington State Patrol:	Set up barriers and roadblocks. Communicate with State Fish & Game to evacuate their areas.
Washington State Representative:	Facilitate interaction between State and County EOC's. If Federal assistance is needed, make request. Assist with 'Proclamation of Emergency'.
Facility Representative:	Keep in contact with the WNP-2 Plant, the Technical Decision Center in the EOF and explain Plant status in lay terms.
Public Information Officer:	Responsible for putting together Emergency Broadcast Messages. The only person with the authority to give a press briefing at the County EOC.
Implementation Coordinator:	Assure details are met for the entire Implementation Group.

ATTACHMENT 3, SECTION III C
EVALUATOR/CONTROLLER MEETINGS
EXERCISE '91

There are a series of meetings [1] which must be conducted either for or by the Exercise Controllers and Evaluators prior to, during and after the Exercise. They fall into seven distinct types and are known as:

-Package Issue & Orientation
-Casualty Scene Inspections
-Immediate In-Center Critique
-Team Scenario Breakout
-Final Scenario Coordination
-Team Critique Work Sessions
-Lead Controller Critique Work Session

These meetings are briefly delineated below . . .

A. **Package Issue and Orientation**

- Required to be attended by ALL Controllers and Evaluators.

- At this session for all evaluators and controllers, the Exercise Director or Coordinator should cover the following portions of the scenario package:

1. **Objectives Tab**
   Objectives and Limitations - Exercise scope and objectives and limitations, with emphasis on center/team applicability.

2. **Schedule Tab**
   Schedule - Schedule of evaluator/controller sessions and Team reporting times on Exercise day.

3. **Participants Tab**

   a. Players Positions - Location in book.

   b. Evaluators/Controllers Positions - Introduction of lead controllers and any necessary clarification of assignments.

   c. Player/Observer Instructions - The fact they are being provided to the players and the content of Attachment A, Telephone Use Instructions.

---

[1] Oftimes these meetings can be combined together. *e.g.* - The Package Issue Meeting and the Team Breakout meeting are usually held simultaneously.

4. **Scenario Tab**

   a. Introduction to Scenario - An overview.

   b. Time-Line Summary - Combined with the introduction overview.

   c. Scenario Forms - Format only.

   d. Scenario Messages and Anticipated Responses - Section organization and a pertinent message/anticipated response example.

   e. General Data Sheets - Section organization and a pertinent data sheet series example.

5. **Critical Points Tab**

   a. Critical Points - A highlight of the responsibilities.

6. **Maps/Equipment Tab**

   a. Skip this tab

7. **Pre-Exercise Checklist Tab**

   a. Skip this tab

8. **Evaluator/Controller Instructions Tab**

   a. General Evaluator/Controller Instructions - General content.

   b. Special Evaluator/Controller Instructions - General content, including that of attachments.

B. Team Scenario Breakout

- Usually requires attendance only by OSC and MUDAC/FT Controllers, but sometimes TSC, Security and miscellaneous EOF Controllers are also involved.

- The Lead Scenario Controller &/or Center Lead Controllers will cover:

1. Any message input and response evaluation responsibility assignments.

2. Specifics on how exercise controller data is to be presented.

3. Individual assignments for the recording of critique worksheet listed time-line inputs, and evaluation of critique worksheet specified evaluation questions.

4. Assignments regarding player accountability and exercise documentation requirements.

5. Exercise day controller/evaluator team member reporting time(s) and location(s).

6. Intra- and inter-team communications and any other coordination matters.

7. Arrangements for the casualty scene inspection (if appropriate).

8. A table-top drill on message input, data presentation, response evaluation, exercise documentation and team communications (if appropriate).

C. **Casualty Scene Inspections**

- Usually requires attendance only by PET/OSC Controllers. Sometimes Security &/or FT Controllers will have play which requires a casualty scene inspection.

- The Lead Scenario Controller along with the Lead OSC Controller will cover:

1. Specifics on exactly how the equipment and personnel casualties are to be presented to the players, with examination of any mock-ups, etc.

2. Likely player routes of travel and responses to the situations.

3. Any coordination matters.

D. **Final All Controller Scenario Coordination**

- To be attended by ALL Controllers and Evaluators.

- The Exercise Director/Coordinator will cover any last-minute revisions and other control coordination matters with all controllers.

E. **Immediate In-Center Facilitative Critique**

- Required attendance is ALL Controller & Evaluators as well as ALL players from the center in question.

- Conducted in the center immediately after the exercise, the Lead or Center Controllers will:

1. Request comments from the Key Players, as well as any others, regarding conduct and experiences from the Exercise.

2. Brief on tentative unfavorable findings as recorded by the evaluators and controllers.

3. Question players to determine the Root Cause Analysis (RCA) "why" of any tentative unfavorable finding involving improper personnel performance with the "why" not already identified, or arrange for the questioning of involved personnel during the critique. Also, responsibilities for the conduct of Category 3 root cause analyses may be assigned.

4. Provide explanations to the players on the scenario and events in answer to their queries.

5. Provide any needed direction on center/team area and equipment restoration.

6. Assure completion and collection at end of exercise of center/team documentation, *e.g.*, After Action Reports, etc.

7. Arrange for the inclusion of any key players [2] deemed appropriate in the critique work sessions.

F. Team Critique Work Sessions

- Attendance is required of ALL Evaluators & Controllers and appropriate key players.

- At this session, Lead Controllers will:

1. Lead discussions on each finding and make assignments for writing them up.

2. Assure proper procedural research is conducted with players for each unfavorable finding, answering all, who, what, where, when, why, consequences, and violation references on each.

3. Assure coordination with other evaluator/controller teams on findings that have potential impact elsewhere.

---

[2] Reinforce the concept of including key players in this critique session.

4. Have any outstanding root cause analyses completed.

5. Prepare team documentation for submission.

G. **Lead Controller Critique Work Session**

- Required to be attended by the Lead Controllers and select members of the EP group.

- The Exercise Director or Coordinator, will:

1. Conduct a discussion of team inputs, with emphasis on serious findings and those that have potential impact on more than one team.

2. Assemble documentation from the teams.

3. Identify like inputs from more than one team and consolidate where applicable.

4. Conduct any required follow on actions, e.g., root cause analyses interactions with players, for unfavorable findings originally thought not to need them.

5. Determine a severity of classification for each unfavorable finding.

6. Develop CARs for the written critique package. Ensure player review/comments are obtained prior to final production of the critique package.

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ATTACHMENT 4, SECTION III C

OUTLINE FOR PLAYER'S BRIEFINGS

EXERCISE '91

The following portions of Section I of the drill package should be covered, oriented towards the players represented at the briefing, *e.g.*, Plant, Security, EOF, JIC etc.

A. **Objectives Tab**
Objectives and Limitations - Drill scope and pertinent objectives and limitations [1].

B. **Schedule Tab**
Schedule of player sessions.

C. **Participants Tab**
Players Positions - Explanation. This may include a discussion of Non-Supply System agencies who will be playing.

D. **Player Instructions Tab**

1. Cover applicable portions as summarized below:

Center/Group	Paragraphs
Plant	1, 3, 4
Plant Security	1, 3, 4
EOF	1, 2, 3
JIC	1, 2

2. Special Telephone Use Instructions - Explanation

E. **Initial Plant Conditions**
Historical Data for all Players - Present and explain as necessary. Do not divulge scenario items if required to explain the initial plant conditions.

---

[1] Objectives are NOT to be covered for Exercises which are evaluated by the NRC. Limitations and General scope of participation *(e.g. - outside agency participation, Supply System centers and facilities involved or not involved)* MAY be discussed, to preclude divulgence of scenario items.

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ATTACHMENT 5, SECTION III C

DRILL/EXERCISE UNFAVORABLE OBSERVATION ROOT CAUSE ANALYSIS GUIDE EXERCISE '91

A. General

The cause of incorrect personnel task performance(s) will be included for each unfavorable observation. If simple questioning of the player(s) involved fails to identify the cause(s), then a Category 3 type root cause analysis *(RCA)* will be conducted by and evaluator/controller in accordance with this guide and attached to the unfavorable observation.

B. Process

1. Initiate the Root Cause Analysis Summary Sheet *(Enclosure 1)* by filling in the blanks for your name and the unfavorable observation number [1]

2. Gather the information necessary to complete the Initial Information Collection and Pertinent Data Blocks on the enclosure. Question involved personnel and complete personal statements on Personal Statement Forms *(Enclosure 2)*.

3. Using the information gathered, determine root cause(s) of the problem by application of the basic root cause determination method on the supplied copy of the Root Cause Tree. *Do not hesitate to collect additional information if necessary to validate your findings.*

    a. For the problem being analyzed, determine if the primary cause [2] is equipment, personnel, or procedures *(Section A of the tree)*.

    b. For each area in Section A of the tree identified as a primary cause, determine which subcategory *(Section B of the tree)* led to the primary cause. To do this, a list of questions *(Section C of the tree)* has been developed.

    c. For any question in Section C of the tree which is answered "Yes", it is a root cause. Any root cause shall be circled for easy identification.

---

[1] Use your own numbering system . . . Just start with number 1, number 2, etc.

[2] Although the root cause(s) may be determined to be realated to only one of these primary categories, all three should be considered initially to ensure complete coverage. Without complete consideration of the three categories, ALL root causes may not be identified.

Limiting root cause(s) to those identified in the tree will aid in the trending of similar problems.

4. List at the bottom of the Root Cause Analysis Summary Sheet (Enclosure 1) the names of personnel, besides yourself, who assisted in performing the RCA. List the completion date of the RCA.

5. Attach the completed Root Cause Analysis Summary Sheet *(Enclosure 1)*, accompanying Personal Statement Forms *(Enclosure 2)*, and copies of any other relevant documentation, *e.g., center/team logs, etc.,* to the unfavorable observation critique worksheet.

Enclosures:

1. Root Cause Analysis Summary Sheet

2. Personal Statement Form

ENCLOSURE 1, ATTACHMENT 5, SECTION III C

ROOT CAUSE ANALYSIS SUMMARY SHEET

EXERCISE '91

Name of Evaluator/Controller Initiating Analysis:	Unfavorable Observation Number:

Initial Information Collection

Further description of the event or problem identified in the unfavorable observation. It is permissible to refer to the originating document *(the unfavorable observation sheet)*, rather than re-write the description here.

Pertinent Data - *Identify sources of data. e.g. - center logs, team logs, procedure excerpts, personal statements, etc. Attach the data to this summary sheet.*

ATTACHMENT	DESCRIPTION
A	
B	
C	
D	
E	
F	

Names of other personnel, besides yourself, who assisted in performing the Root Cause Analysis . . .

Date Completed:

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ENCLOSURE 2, ATTACHMENT 5, SECTION III C

PERSONAL STATEMENT FORM

EXERCISE '91

Player Name	Emergency Position
Emergency Center/Team	Time of Event Location of Event

Use back side of this sheet if you need more room to write

How did the event actually happen?
What led up to the event?
What other work was going on in the area or on the system?
Explain if anything was wrong with - the machinery - the equipment - the materials - the tools
Explain what was wrong with - the procedure - the layout - the work instructions
Describe the way in which human error may have been involved
Comments, Remarks or Suggestions you have to prevent recurrence of this event

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SECTION III D

CRITIQUE WORKSHEETS

EXERCISE '91

CONTROLLED DISTRIBUTION

CONTENTS

CONTROLLED DISTRIBUTION

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SECTION III D

DOCUMENT CHECK-IN LOG

SHEET A

EXERCISE '91

Evaluator's Name _____

Evaluator-Controller Team	Sheet B Attendance Record	Sheet C Favorable Observation	Sheet D Unfavorable Observation	Sheet E Time Line Worksheet	Sheet F Evaluation Questions	Player After-Action Reports	Center & Team Documents
Ctl Room (Simulator)		Optional					
OSC		Optional					
TSC		Optional					
CAS		Optional					
SSDC		Optional					
SDC		Optional					
EOFCC		Optional					
OACC		Optional					
TDC		Optional					
MUDAC		Optional					
FIELD TEAMS		Optional					
HP CENTER		Optional					
JIC		Optional					
WA EOC & PLAYERS		Optional	Optional	Optional	Optional	Optional	Optional
OR EOC & PLAYERS		Optional	Optional	Optional	Optional	Optional	Optional
B/F EOC & PLAYERS		Optional	Optional	Optional	Optional	Optional	Optional
NRC SITE PLAYERS		Optional	Optional	None Requested	Optional	Optional	Optional
FEMA PLAYERS		Optional	Optional	None Requested	Optional	Optional	Optional
DOE-RL PLAYERS		Optional	Optional	None Requested	Optional	Optional	Optional

INSTRUCTIONS:

The Lead Evaluator or Controller for each Center (or function) is to ensure that all documentation for each of the columns above is created and/or obtained. This Check-In Log is to be filled out for each Center (function) and the documentation attached to the log.

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SECTION III D

ATTENDANCE RECORD

PLAYER & CONTROLLER-EVALUATOR

SHEET B

EXERCISE '91

CENTER

_____

Fill in center name

NAME (Print)	SIGNATURE	SOC. SEC. NO.	EMERGENCY POSITION TITLE

ATTENDANCE VALIDATED BY: _____ Center Lead Controller-Evaluator

(Signature & Date)

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SECTION III D

MEETING ATTENDANCE RECORD

CONTROLLER-EVALUATOR

SHEET B

EXERCISE '91

Meeting Purpose

Date of Meeting

NAME (Print)	SIGNATURE	EMERGENCY POSITION TITLE

ATTENDANCE VALIDATED BY: _____ Exercise Director

(Signature & Date)

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SECTION III D

FAVORABLE OBSERVATION WORKSHEET

SHEET C

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

FAVORABLE OBSERVATION FOR:

(List the Center, Team and Personnel involved)

A. Favorable Finding:

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SECTION III D

UNFAVORABLE OBSERVATION WORKSHEET

SHEET D

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

UNFAVORABLE OBSERVATION FOR:
(List the Center, Team and Personnel involved)

A. Relevant Objectives *(List from section IA of the Scenario Package)*:

B. Findings *(who, what, when, where, consequences, violation)* ALL MUST BE COMPLETED

WHO?:

WHAT?:

VIOLATION REFERENCE? *(if different or in addition to section A, above)*

WHEN?:

WHERE?:

CONSEQUENCES?:

PERSONNEL CONTACTED TO VERIFY ACCURACY OF FINDING? *(List who)*:

(Write on the back of this form if you need more space)

C. Cause(s) from the Basic Root Cause Determination *(in Section III C of the scenario package)*:

WHY?:

D. Feedback *(complete for <u>personnel</u> performance issues identified in the Basic Root Cause Determination)*:

1. Involved personnel briefed on findings? ____ Yes; ____ No.
2. Root Cause analysis attached? ____ Yes; ____ No.

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **CONTROL ROOM *(Simulator)***

TIME	EVENT
_____	Exercise Start Plant PA Announcement completed
	Unusual Event *(if applicable)*
_____	UE - EAL recognized by PED
_____	UE - Declared by PED
_____	UE - Crash Call completed
_____	UE - Alerting Tone sounded
_____	UE - Plant PA Announcement completed
_____	UE - PA Announcement of hazards
_____	UE - NRC Notification completed
	Alert *(if applicable)*
_____	ALERT - EAL recognized by PED
_____	ALERT - Declared by PED
_____	ALERT - Crash Call completed
_____	ALERT - Alerting Tone sounded
_____	ALERT - Plant PA Announcement completed
_____	ALERT - PA Announcement of hazards
_____	ALERT - NRC Notification completed
	Site Area Emergency *(if applicable)*
_____	SAE - EAL recognized by PED
_____	SAE - Declared by PED
_____	SAE - Crash Call completed
_____	SAE - Alerting Tone sounded
_____	SAE - Plant PA Announcement completed
_____	SAE - PA Announcement of hazards
_____	SAE - NRC Notification completed
	General Emergency *(if applicable)*
_____	GE - EAL recognized by PED
_____	GE - Declared by PED
_____	GE - Crash Call completed
_____	GE - Alerting Tone sounded
_____	GE - Plant PA Announcement completed
_____	GE - PA Announcement of hazards
_____	GE - NRC Notification completed

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CONTROL ROOM *(Simulator)*** *(cont'd)*

TIME	EVENT
	Other Items Warranting Input *(if applicable)*
_____	Shift Manager/PED passed control to On-Call PED
_____	PED change-over to On-Call PED announcement made in CR *(sim)*
_____	Protected Area Evacuation order Plant PA announcement made *(specify area and type)*
_____	Information Coordinator arrived
_____	Control Room communicator arrived
_____	
_____	
_____	
_____	
_____	
_____	Simulator staff secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **OPERATIONS SUPPORT CENTER**

TIME	EVENT
_____	Alert Plant PA Announcement heard
_____	OSC Director assumes command
_____	OSC Director announces to OSC Staff he has assumed command
_____	OSC declared activated
_____	Protected Area evacuation Plant PA announcement heard in OSC *(specify area and type)*
_____	Initial Habitability monitoring conducted
_____	First Reentry Team dispatched from OSC to *(specify area & task)*
_____	Dispatched Reentry Team to measure rad readings in Protected Area
_____	Communications Support personnel arrive from EOF
_____	OSC assumes responsiblity for PET direction and control *(relieves CR)*
_____	Initial accountability declared complete by OSC
_____	
_____	
_____	
_____	
_____	
_____	OSC Staff secure form Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **TECHNICAL SUPPORT CENTER**

TIME	EVENT
_____	TSC Declared activated
_____	On-Call PED assumes control from Shift Manager/PED
_____	On Call PED announces his assumption of PED duties from SM over Plant PA
	Site Area Emergency *(if applicable)*
_____	SAE - EAL recognized by PED
_____	SAE - Declared by PED
_____	SAE - Crash call completed
_____	SAE - Alerting Tone sounded
_____	SAE - PA announcement completed
_____	SAE - NRC notification completed
_____	SAE - direction to commence controlled evacuation given
	General Emergency *(if applicable)*
_____	GE - EAL recognized by PED
_____	GE - Declared by PED
_____	GE - Crash call completed
_____	GE - Alerting Tone sounded
_____	GE - PA announcement completed
_____	GE - NRC notification completed
	Other Items Warranting Input *(if applicable)*
_____	PED passed RM duties to on-call EOF RM
_____	PA announcement of RM duties now being assumed by on-call EOF RM
_____	TSC Director informed of habitability status of TSC
_____	PED informed of establishment of road blocks
_____	
_____	
_____	TSC Staff secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CENTRAL ALARM STATION *(Security)***

TIME	EVENT
_____	Unusual Event radio announcement completed
_____	Alert radio announcement completed
_____	Site Area radio announcement completed
_____	Road blocks implemented
_____	Dosimetry relocated
_____	Accountability computer printout sent to OSC
_____	
_____	
_____	
_____	
_____	
_____	
_____	
_____	CAS staff secured from the Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **SUPPLY SYSTEM DECISION CENTER**

TIME	EVENT
_____	EOF declared activated
_____	PA announcement in EOF that EOF is operational
_____	On-Call EOF-RM assumes command of RM duties from PED
_____	PA announcement in EOF that EOF-RM has assumed duties
_____	PA announcement of hazards
_____	PA Announcement of Classification Changes *(specify type)*
_____	PA Announcement of Classification Changes *(specify type)*

Crash Calls Completed:

Indicate completion time, emergency class, PAD & other major contents

_____ SSDC staff secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **EOF COMMUNICATIONS CENTER**

TIME	EVENT
	Unusual Event
_____	UE - EOFCC Crash Calls completed
_____	UE - Part IIA responders identified
_____	UE - Part IIB responders identified
_____	UE - EOF PA announcment completed
_____	UE - Part III notifications complete
	Alert
_____	ALERT - EOFCC Crash Calls completed
_____	ALERT - Part IIA responders identified
_____	ALERT - Part IIB responders identified
_____	ALERT - EOF PA announcment completed
_____	ALERT - Part III notifications complete
	Site Area Emergency
_____	SAE - EOFCC Crash Calls completed
_____	SAE - Part IIA responders identified
_____	SAE - Part IIB responders identified
_____	SAE - EOF PA announcment completed
_____	SAE - Part III notifications complete
	General Emergency
_____	GE - EOFCC Crash Calls completed
_____	GE - Part IIA responders identified
_____	GE - Part IIB responders identified
_____	GE - EOF PA announcment completed
_____	GE - Part III notifications complete
_____	EOFCC Staff secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **SECURITY DECISION CENTER**

TIME	EVENT
_____	Security Decision Center declared activated
_____	SEC secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **OFFSITE AGENCY COORDINATION CENTER**

TIME	EVENT
_____	Offsite Agency Coordination Center declared activated
_____	Offsite Agency Coordination Center secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved): **TECHNICAL DATA CENTER**

TIME	EVENT
_____	Technical Data Center declared activated
_____	Technical Data Center secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **MUDAC**

TIME	EVENT
_____	MUDAC activated
_____	State MUDAC staff arrive
_____	DOE-RL MUDAC Staff arrive
_____	First Supply System Field Team dispatched from MUDAC
_____	Last Supply System Field Team dispatched from MUDAC
_____	Contact with DOE Radiological Assessment Teams
_____	First MUDAC dose projection completed
_____	Plume definition acheived by MUDAC Staff
_____	First dose projection map submitted by MUDAC staff to REM
_____	First Field Team status map submitted by MUDAC staff to REM
_____	Need for KI evaluated
_____	KI recommendation ("YES" / "NO") to REM

Dose Projection PAR's submitted to REM

list PAR number & time and attach cc of PAR to this worksheet

_____ _____

_____ _____

_____ _____

_____ _____

_____ MUDAC Staff secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **FIELD TEAMS *(submit just one sheet)***

TIME	EVENT
_____	All Table B.1 Field Team members present in EOF (6 req'd)
_____	First Field Team ready for deployment. F/T no. _____
_____	Last Field Team ready for deployment. F/T no. _____
_____	First F/T reports reading above background at *(specify grid location of the reading)* _____
_____	River Evacuation F/T at Leslie Groves Park
_____	First air sample ordered. F/T no. _____
_____	First air sample results reported to MUDAC. F/T no. _____
_____	Contamination boundaries established.
_____	Field Teams secured from the Exercise.

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **HEALTH PHYSICS CENTER**

TIME	EVENT
_____	Health Physics Center activated
_____	Health Physics Center secured from the Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **JOINT INFORMATION CENTER**

TIME	EVENT
_____	JIC Activation order given
_____	JIC declared activated
_____	JIC Media telephone team phone lines opened
_____	JIC Public Information team phone lines opened
_____	First news conference started

News Releases

List time distribution completed & briefly list major contents.
Attach copy of News Release to this worksheet

_____

_____

_____

_____

_____

_____

_____

_____	JIC Phone teams secured from Exercise
_____	JIC staff secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) BENTON FRANKLIN COUNTY EOC

TIME	EVENT
_____	County Joint EOC declared activated
_____	Counties declaration of emergency signed
_____	County Joint EOC secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **WASHINGTON STATE EOC**

TIME	EVENT
_____	Washington State EOC declared activated
_____	State declaration of emergency signed
_____	Washington State EOC secured from Exercise

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SECTION III D

TIME LINE WORKSHEET

SHEET E

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **OREGON STATE EOC**

TIME	EVENT
_____	Oregon State EOC declared activated
_____	Oregon State EOC secured from Exercise

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved)

ALL CONTROLLERS & EVALUATORS READ THE FOLLOWING

This form is an example of an Evaluation Question Sheet. There has been a 'custom-tailored' sheet prepared for each of the following centers &/or functions . . .

-Control Room (Simulator)
-Technical Support Center
-Supply System Decision Center
-EOF Communications Center
-Technical Decision Center
-Field Teams
-Washington EOC & Players
-Benton/Franklin EOC & Players
-FEMA Players
-Operations Support Center
-Central Alarm Station (& Site Security)
-Security Decision Center
-Offsite Agency Coordination Center
-MUDAC
-Health Physics Center
-Oregon EOC & Players
-NRC Site Team Players
-DOE-RL Players

Controllers & Evaluators are responsible for filling out the appropriate Evaluation Question Worksheet for their appropriate Center &/or Function. It must be understood that the Supply System does not intend to perform evaluation of the performance of Non-Supply System agencies participating in this Exercise. The Evaluation Question Sheets for these agencies are provided as a courtesy to them to be filled out and used by them for their own purposes, should they so choose.

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CONTROL ROOM** ***(Simulator)***

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

1 _____
1C1 _____
1C2 _____
2 _____
3 _____
3C2 _____
4 _____
4C1 _____
4C2 _____
4C3 _____
5 _____
5C1 _____
13 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **OPERATIONS SUPPORT CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
2C1 _____
3 _____
3C1 _____
3C2 _____
3C3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____
6 _____
6C4 _____
6C6 _____
16 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **TECHNICAL SUPPORT CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

1 _____
1C1 _____
1C2 _____
2 _____
2C1 _____
3 _____
3C3 _____
4 _____
4C1 _____
4C2 _____
4C3 _____
5 _____
5C1 _____
13 _____
16 _____
26 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CENTRAL ALARM STATION *(Security)***

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
2C2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____
6 _____
6C1 _____
6C2 _____
16 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **SUPPLY SYSTEM DECISION CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

1 _____
1C1 _____
1C2 _____
2 _____
2C1 _____
3 _____
4 _____
4C1 _____
4C2 _____
4C3 _____
5 _____
5C1 _____
5C3 _____
13 _____
16 _____
26 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **SECURITY DECISION CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
2C2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **EOF COMMUNICATIONS CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

1 _____
1C2 _____
2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **OFFSITE AGENCY COORDINATION CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **TECHNICAL DECISION CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". ***(Negative responses should result in the generation of Unfavorable Observation Worksheets)***

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____

COMMENTS.

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **MUDAC**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

1 _____
1C1 _____
1C2 _____
2 _____
2C1 _____
3 _____
4 _____
4C1 _____
4C2 _____
4C3 _____
5 _____
5C1 _____
6 _____
7 _____
8 _____
9 _____
10C1 _____
10C2 _____
10C3 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **FIELD TEAMS**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
6 _____
6C3 _____
7 _____
8 _____

COMMENTS: _____

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **HEALTH PHYSICS CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____
5C2 _____
35 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **JOINT INFORMATION CENTER**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were Personnel in this center provided with the opportunity to participate interactively with the NRC Emergency Response Team and Response Team procedures? _____
2. Were Personnel in this center provided the opportunity to practice casualty control methodology for the prompt mitigation of the consequences of a postulated accident and/or radiological release? _____

STANDARD OBJECTIVES

2 _____
3 _____
4 _____
4C1 _____
4C2 _____
5 _____
5C1 _____
13 _____
13C1 _____
14 _____
14C1 _____
14C2 _____
14C3 _____
14C4 _____
15 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) WA EOC & WA PLAYERS IN ALL CENTERS

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

STANDARD OBJECTIVES

2C4 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) OR EOC & OR PLAYERS IN ALL CENTERS

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Were established methods for exchange of information between Oregon and other emergency response organizations tested as appropriate? _____
2. Were methods for exchange of information among Oregon emergency responders tested as appropriate? _____

STANDARD OBJECTIVES

2 _____
2C4 _____
2C5 _____
4 _____
4C9 _____
4C10 _____
4C11 _____
4C12 _____
4C13 _____
11 _____
11C _____
14C6 _____
14C7 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **B/F COUNTY EOC & COUNTY PLAYERS**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

STANDARD OBJECTIVES

2 _____
3 _____
4 _____
5 _____
11 _____
12 _____
13 _____
18 _____
20 _____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **SITE TEAM NRC PLAYERS *(All Centers)***

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Was the adequacy and workability of the NRC Region V Supplement to NuReg 0845 demonstrated? _____
2. Was the ability of NRC Region V personnel to respond to an emergency in accordance with the Region V supplement to NuReg 0845 demonstrated? _____
3. Were the use of procedures and the decision making process used to transition the NRC response from one mode to another demonstrated? _____
4. Were the Supply System, the State and local governments provided an opportunity to participate directly with the NRC during this Emergency Preparedness Exercise? _____
5. Were all significant actions and decisions documented? _____

STANDARD OBJECTIVES

1	_____	1C3	_____
1C4	_____	1C5	_____
2	_____	2C3	_____
3	_____	3C4	_____
3C5	_____	4	_____
4C4	_____	4C5	_____
4C6	_____	4C7	_____
4C8	_____	5	_____
5C4	_____	5C5	_____
5C6	_____	5C7	_____
5C8	_____	6	_____
6C5	_____	6C6	_____
13	_____	13C2	_____

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) FEMA PLAYERS IN ALL CENTERS

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

STANDARD OBJECTIVES

COMMENTS

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SECTION III D

EVALUATION QUESTION WORKSHEET

SHEET F

EXERCISE '91

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **DEPT OF ENERGY - RICHLAND OFFICE**

Were operations free of shortcomings relative to the following objectives? Answer "YES", "NO" or "N/A". *(Negative responses should result in the generation of Unfavorable Observation Worksheets)*

GENERAL OBJECTIVES

1. Was an opportunity provided for training for the US-DOE's Radiological Assessment Team in evaluation of radiological releases in the Hanford and near-Hanford environs? _____

STANDARD OBJECTIVES

COMMENTS

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SECTION III D

SAMPLE UNFAVORABLE OBSERVATION WORKSHEET

SHEET G

EXERCISE '91

EVALUATOR NAME	ORGANIZATION
Roger Heinz	*Support Services Facility Eng*

UNFAVORABLE OBSERVATION FOR:
(List the Center, Team and Personnel involved) OSC Reentry Team number 17

A. Relevant Objectives *(List from section IA of the Scenario Package)*:

Objective III-C-2 *(from a previous Exercise)*

B. Findings *(who, what, when, where, consequences, violation)* ALL MUST BE COMPLETED

WHO?: Osc Team Number 17

WHAT?: Deviated from their instructions when dispatched to engage the turbine turning gear on TG 501' el. They joined up with team #4 on the RW 552' el. in the SW stairwell without the knowledge or consent of the OSC Director/Staff

VIOLATION REFERENCE? *(if different or in addition to section A, above)* This is a violation of EPIP PPM 13.10.12.3.A.9 & 16.

WHEN?: This happened at 0920 hours.

WHERE?: As stated above, in the RW Building.

CONSEQUENCES?: This resulted in their unnecessary exposure to 6.8 R/hr and non-availability for subsequent dispatch for approximately 20 minutes.

PERSONNEL CONTACTED TO VERIFY ACCURACY OF FINDING? *(List who)*: OSC Director, OSC Team Briefer, All members of Teams #17 and #4, OSC Radio Communications person, Team Controller for Team #4

(Write on the back of this form if you need more space)

C. Cause(s) from the Basic Root Cause Determination *(in Section III C of the scenario package)*:

WHY?: See Attached RCA for causes.

D. Feedback *(complete for personnel performance issues identified in the Basic Root Cause Determination)*:

1. Involved personnel briefed on findings? __X__ Yes; ____ No.
2. Root Cause analysis attached? __X__ Yes; ____ No.

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SECTION III E

EVALUATOR LOG

EXERCISE '91

CONTROLLED DISTRIBUTION

CONTENTS

CONTROLLED DISTRIBUTION

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WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

EVALUATOR LOG

TIME	EVENT *and/or* COMMENTS

EVALUATORS NOTE: Use as many rows on this sheet as necessary to describe or comment on the item you wish. Use as many sheets as necessary to log all pertinent items.

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SECTION IV

SUPPORTING INFORMATION
EXERCISE '91

A. **Copies of Procedures**

- Copies of EPIP's will be made available to all Controllers and Evaluators in the Final Pre-Exercise Controller Meeting.

B. **Other Supporting Information**

- None

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SECTION V
CRITIQUE
EXERCISE '91

To Be Published

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