

50-397.

CR 7/22/87

Superseded P&L Among P&L
To Implementing Procedures

1 Not Issued
 2 Control Room
 3 Shift Manager
 4 Plant Manager
 5 Licensed Training (JE Wyrick)
 6 Simulator
 7 Technical Manager
 8 Operations Manager
 9 HP/Chemistry Manager
 10 Maintenance Manager
 11 Plant Admin. Manager
 12 Engineering Services
 13 Not Issued
 14 Not Issued
 15 Not Issued
 16 Not Issued
 17 Not Issued
 18 Unassigned
 19 Not Issued
 20 Chemistry Supervisor
 21 Health Physics Supervisor
 22 Not Issued
 23 Not Issued
 24 Plant QA/QC Manager
 25 Project Manager, Bechtel
 26 Region V NRC
 27 WNP-2 Security
 28 Region V NRC
 29 WNP-3 Technical Library
 30 EOF Records Room
 31 Technical Support Center
 32 Unassigned
 33 Admin Security Specialist
 34 Access Control
 35 Not Issued
 36 Emergency Preparedness Program
 37 Mgr. of Emerg Plann & Environ Prog
 38 Radiological Training
 39 Not Issued
 40 Not Issued
 41 WNP-2 Security
 42 Maintenance Training

43 Not Issued
 44 Not Issued
 45 Not Issued
 46 Safety
 47 Director, Engineering
 48 Not Issued
 49 Training/Evaluation
 50 Plant Emergency Director
 51 Energy Fac. Site Eval. Council
 52 Dept. of Emergency Services
 53 Dept Soc. & Health Serv.
 54 Dept Soc. & Health Serv. (Seattle)
 55 Federal Emergency Mgmt. Agency
 56 U.S. Department of Energy
 57 Benton County Dept of Emerg. Mgmt.
 58 WNP-2 Security
 59 WNP-2 Security
 60 WNP-2 Security
 61 Operations Support Center
 62 Not Issued
 63 Unassigned
 64 Not Issued
 65 Not Issued
 66 Modifications & Upgrades
 67 Not Issued
 68 Remote Shutdown Room (13.4.1)
 69 Not Issued
 70 Not Issued
 71 Not Issued
 72 Not Issued
 73 Dept. Soc. & Health Serv.
 74 Dept. Soc. & Health Serv.
 75 Dept. Soc. & Health Serv.
 76 Not Issued
 77 Not Issued
 78 Shift Technical Advisor
 79 Not Issued
 80 Plant Records
 81 Not Issued
 82 EOF Decision Center
 83 MUDAC
 84 Not Issued

85 Not Issued
 86 Document Control Desk, NRC
 87 Document Control Desk, NRC
 88 Not Issued
 89 Not Issued
 90 Corporate Communications
 91 Emergency Preparedness Program
 92 Emergency Preparedness Program
 93 Radiological Programs
 94 Offsite Agency Center
 95 Security Decision Center
 96 Crisis Management Center
 97 Technical Data Center
 98 Alternate OSC
 99 Not Issued
 100 Unassigned
 101 Not Issued
 102 Communication Services
 103 Not Issued
 104 Emergency Preparedness Program
 105 NRC Emergency Response
 106 Emergency Preparedness Program
 107 Not Issued
 108 Not Issued
 109 Not Issued
 110 Not Issued
 111 Not Issued
 112 Not Issued
 113 Not Issued
 114 Not Issued
 115 Not Issued
 116 Unassigned
 117 Unassigned
 118 Unassigned
 119 Not Issued
 120 Not Issued
 121 Not Issued
 122 Not Issued
 123 Not Issued
 124 Not Issued
 125 Not Issued
 126 Not Issued
 127 Not Issued

VOLUME 13 - EMERGENCY PLAN IMPLEMENTING PROCEDURES

<u>Procedure Number</u>	<u>Rev</u>	<u>Total No. Pages</u>	<u>Approval Date</u>	<u>Required Review Date</u>	<u>Responsible Person</u>	<u>Title</u>
13.1						EMERGENCY CLASSIFICATION
13.1.1	4 - C	21	04/13/87	04/89	HP/Chem Mgr.	Classifying the Emergency
13.1.2	4 - C	11	04/13/87	04/89	HP/Chem Mgr.	Plant Emergency Director Duties
13.2						MAN-CAUSED EMERGENCY ACTIONS
13.2.1	4 - C	2	02/11/87	02/89	HP/Chem Mgr.	Fires/Explosions
13.2.2	2 - C	2	12/02/85	12/87	HP/Chem Mgr.	Transportation Accidents
13.2.3	3 - C	2	01/30/87	01/89	HP/Chem Mgr.	Toxic or Flammable Gas Releases or Oxygen Deficient Atmosphere
13.2.4	3 - C	2	02/11/87	02/89	HP/Chem Mgr.	Missiles
13.2.5	2 - C	3	12/02/85	12/87	HP/Chem Mgr.	Bomb Threats
13.2.6	2 - C	2	12/02/85	12/87	HP/Chem Mgr.	Civil Disturbance
13.3						NATURAL EMERGENCY ACTIONS
13.3.1	2 - C	3	12/02/85	12/87	HP/Chem Mgr.	Earthquakes
13.3.2	3 - C	3	02/11/87	02/89	HP/Chem Mgr.	High Winds/Tornados
13.3.3	3 - C	2	02/11/87	02/89	HP/Chem Mgr.	Floods
13.3.4	3 - C	2	02/11/87	02/89	HP/Chem Mgr.	Ash Fallout
13.4						NOTIFICATIONS
13.4.1	4 - C	20	06/30/86	06/88	HP/Chem Mgr.	Notifications
13.5						EVACUATION AND ACCOUNTABILITY
13.5.1	4 - C	5	02/11/87	02/89	HP/Chem Mgr.	Controlled Evacuation of the Protected Area
13.5.2	4 - C	4	02/11/87	02/89	HP/Chem Mgr.	Immediate Evacuation of the Protected Area
13.5.3	5 - C	6	02/11/87	02/89	HP/Chem Mgr.	Evacuation of Exclusion Area and/or Nearby Facilities

P = Partial Review
C - Complete Review

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13.5.4	4 - C	9	02/11/87	02/89	HP/Chem Mgr.	Columbia River Evacuation
13.5.5	4 - P	11	06/24/87	02/89	HP/Chem Mgr.	Personnel Accountability
13.5.6	3 - C	4	02/11/87	02/89	HP/Chem Mgr.	Personnel Search and Rescue
13.6	EMERGENCY SECURITY PROCEDURES					
13.6.1	4 - C	3	02/11/87	02/89	HP/Chem Mgr.	Security Procedures
13.6.2	Cancelled per POC 84-46					Nearby Nuclear Facility Emergencies/Requests For Assistance
13.7	PERSONNEL MONITORING, DECONTAMINATION, FIRST AID					
13.7.1	3 - C	1	02/11/87	02/89	HP/Chem Mgr.	Personnel Monitoring
13.7.2	3 - C	2	06/19/86	06/88	HP/Chem Mgr.	Contamination Control
13.7.3	4 - C	2	02/11/87	02/89	HP/Chem Mgr.	Plant Personnel Decontamination
13.7.4	3 - C	2	06/19/86	06/88	HP/Chem Mgr.	Personnel Decontamination Operations at the Emergency Operations Facility
13.7.5	5 - C	10	02/11/87	02/89	HP/Chem Mgr.	Decontamination Operations at Remote Decontamination Locations
13.7.6	3 - C	5	06/19/86	06/88	HP/Chem Mgr.	Plant First Aid Facility
13.7.7	4 - C	4	04/13/87	04/89	HP/Chem Mgr.	Emergency Operations Facility First Aid Center Operations
13.7.8	4 - C	7	04/13/87	04/89	HP/Chem Mgr.	Transportation of Injured or Contaminated Injured Personnel to an Offsite Medical Facility
13.7.9	3 - C	2	06/19/86	06/88	HP/Chem Mgr.	Decontamination Within the Site Area Boundary
13.7.10	1 - C	4	06/19/86	06/88	HP/Chem Mgr.	Offsite Emergency Response Personnel Dosimetry
13.8	OFFSITE DOSE CALCULATIONS					
13.8.1	3 - C	8	04/13/87	04/89	HP/Chem Mgr.	Computerized Emergency Dose Projection System Operations
13.8.2	4 - C	18	04/13/87	04/89	HP/Chem Mgr.	Manual Offsite Dose Calculations
13.8.3	4 - C	2	04/13/87	04/89	HP/Chem Mgr.	Ingestion Pathway Dose Calculations

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<u>Procedure Number</u>	<u>Rev</u>	<u>Total No. Pages</u>	<u>Approval Date</u>	<u>Required Review Date</u>	<u>Responsible Person</u>	<u>Title</u>
13.9	ENVIRONMENTAL FIELD MONITORING					
13.9.1	4 - P	8	09/09/86	06/88	HP/Chem Mgr.	Environmental Field Team Operations
13.9.2	4 - C	5	02/11/87	02/89	HP/Chem Mgr.	Field Exposure Rate Surveys
13.9.3	3 - C	5	06/19/86	06/88	HP/Chem Mgr.	Portable Air Sampling
13.9.4	3 - C	5	06/30/86	06/88	HP/Chem Mgr.	TLD and Fixed Air Sample Retrieval
13.9.5	3 - C	9	06/19/86	06/88	HP/Chem Mgr.	Environmental Sample Collection
13.9.6	4 - C	13	06/19/86	06/88	HP/Chem Mgr.	Field Analyses of Environmental Samples
13.9.7	3 - C	12	06/19/86	06/88	HP/Chem Mgr.	Aerial Monitoring
13.9.8	1 - C	8	02/11/87	02/89	HP/Chem Mgr.	River Evacuation Monitoring
13.10	PLANT EMERGENCY FACILITIES					
13.10.1	4 - C	5	04/29/86	04/88	HP/Chem Mgr.	Control Room Operations and Shift Manager Duties
13.10.2	3 - C	3	04/29/86	04/88	HP/Chem Mgr.	Shift Technical Advisor Duties
13.10.3	3 - C	9	04/29/86	04/88	HP/Chem Mgr.	Technical Support Center Operations and Technical Support Center Director's Duties
13.10.4	5 - C	6	02/11/87	02/89	HP/Chem Mgr.	Plant Radiation Protection Manager Duties
13.10.5	3 - C	3	04/29/86	04/88	HP/Chem Mgr.	Operations Manager Duties
13.10.6	3 - C	4	04/29/86	04/88	HP/Chem Mgr.	Plant/NRC Liaison Duties
13.10.7	3 - C	13	04/29/86	04/88	HP/Chem Mgr.	Plant Administrative Manager Duties
13.10.8	4 - C	6	02/11/87	02/89	HP/Chem Mgr.	Security Force Lieutenant Duties
13.10.9	5 - C	25	04/13/87	04/89	HP/Chem Mgr.	Operations Support Center Operations and Operations Support Center Director Duties
13.10.10	3 - C	5	02/11/87	02/89	HP/Chem Mgr.	Health Physics, Chemistry and Maintenance Support Duties
13.10.11	3 - C	5	04/29/86	04/88	HP/Chem Mgr.	Plant Emergency Team Duties
13.10.12	4 - C	9	04/13/87	04/89	HP/Chem Mgr.	Reentry Team Duties
13.10.13	3 - C	5	04/29/86	04/88	HP/Chem Mgr.	Recovery Team Duties

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13.11	EMERGENCY OPERATIONS FACILITY					
13.11.1	3 - C	9	06/19/86	06/88	HP/Chem Mgr.	Recovery Manager Duties
13.11.2	3 - C	4	06/19/86	06/88	HP/Chem Mgr.	Assistant Recovery Manager Duties
13.11.3	4 - C	12	02/11/87	02/89	HP/Chem Mgr.	Supply System Decision Center Operations and Site Support Manager Duties
13.11.4	3 - C	3	04/29/86	04/88	HP/Chem Mgr.	Safety Manager Duties
13.11.5	3 - C	2	04/29/86	04/88	HP/Chem Mgr.	Radioactive Waste Manager Duties
13.11.6	3 - C	2	04/29/86	04/88	HP/Chem Mgr.	Quality Assurance Manager Duties
13.11.7	4 - C	9	02/11/87	02/89	HP/Chem Mgr.	Radiological Emergency Manager Duties
13.11.8	3 - C	2	04/29/86	04/88	HP/Chem Mgr.	Licensing Manager Duties
13.11.9	4 - C	14	02/11/87	02/89	HP/Chem Mgr.	Administrative Support Manager Duties
13.11.10	3 - C	12	06/19/86	06/88	HP/Chem Mgr.	Security Decision Center Operations and Security Force Manager Duties
13.11.11	4 - C	18	04/13/87	04/89	HP/Chem Mgr.	Offsite Agency Coordination Center Operations and Offsite Agency Coordinator Duties
13.11.12	4 - C	21	04/13/87	04/89	HP/Chem Mgr.	Technical Data Center Operations and Technical Manager Duties
13.11.13	4 - C	2	04/13/87	04/89	HP/Chem Mgr.	EOF Public Information Officers Duties
13.11.14	5 - C	22	04/13/87	04/89	HP/Chem Mgr.	Meteorology and Unified Dose Assessment Center Operations
13.11.15	5 - C	10	04/13/87	04/89	HP/Chem Mgr.	Communications Center Operations
13.11.16	4 - C	15	04/13/87	04/89	HP/Chem Mgr.	Health Physics Center Operations
13.11.17	2 - C	6	04/13/87	04/89	HP/Chem Mgr.	Nearby Nuclear Facility Emergencies/Requests for Assistance
13.11.18	2 - C	7	04/13/87	04/89	HP/Chem Mgr.	Information Network
13.12	HEADQUARTERS EMERGENCY CENTERS					
13.12.1	3 - C	3	04/29/86	04/88	HP/Chem Mgr.	Crisis Management Center Operations
13.12.2	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Headquarters Communications Center Operations
13.12.3	3 - C	4	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center News Coordination Team Duties

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13.12.4	3 - C	5	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Director Duties
13.12.5	3 - C	3	04/13/87	04/89	HP/Chem Mgr.	Assistant Joint Information Center Director Duties
13.12.6	3 - C	3	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Production Team Duties
13.12.7	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Spokesperson Duties
13.12.8	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Technical Spokesperson Duties
13.12.9	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Supply System Information Production Team Duties
13.12.10	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Media Management Team Duties
13.12.11	3 - C	5	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center News Manager Duties
13.12.12	3 - C	7	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Media Telephone Response Team Duties
13.12.13	3 - C	6	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Public Information Telephone Team Duties
13.12.14	3 - C	4	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Distribution Team Duties
13.12.15	3 - C	6	04/13/87	04/89	HP/Chem Mgr.	Joint Information Support Manager Duties
13.12.16	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Audio Visual Support Team Duties
13.12.17	3 - C	2	04/13/87	04/89	HP/Chem Mgr.	Joint Information Center Receptionist Duties
13.12.18	2 - C	2	04/29/86	04/88	HP/Chem Mgr.	Headquarters Administrative Support Supervisor and Staff Duties
13.13	REENTRY/RECOVERY					
13.13.1	2 - C	3	04/29/86	04/88	HP/Chem Mgr.	Reentry
13.13.2	2 - C	3	04/29/86	04/88	HP/Chem Mgr.	Recovery Operations
13.13.3	2 - C	3	06/24/87	06/89	HP/Chem Mgr.	Offsite Reentry and Ingestion Pathways Monitoring/Sampling Plan
13.13.4	2 - C	4	04/13/87	04/89	HP/Chem Mgr.	Post Incident Reporting

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13.14						SUPPORTING INFORMATION PROCEDURES
13.14.1	4 - C	15	04/13/87	04/89	HP/Chem Mgr.	Emergency Exposure Levels/Protective Action Guides
13.14.2	6 - C	17	04/13/87	04/89	HP/Chem Mgr.	Process for Determining Protective Action Recommendations and Protective Action Decisions
13.14.3	4 - C	8	04/13/87	04/89	HP/Chem Mgr.	Supply System Health Physics Procedures, Radiological Programs, Instructions, and Environmental Programs Instructions
13.14.4	5 - C	91	04/13/87	04/89	HP/Chem Mgr.	Emergency Equipment
13.14.5	5 - C	18	04/13/87	04/89	HP/Chem Mgr.	Emergency Organization
13.14.6	3 - C	7	06/19/86	06/88	HP/Chem Mgr.	Offsite Support and Assistance
13.14.7	7 - C	9	04/13/87	04/89	HP/Chem Mgr.	Emergency Training
13.14.8	4 - C	13	04/13/87	04/89	HP/Chem Mgr.	Drills/Exercises
13.14.9	3 - C	9	04/29/86	04/88	HP/Chem Mgr.	Emergency Program Maintenance
Appendix I		Cancelled per POC 86-24				Emergency Notifications

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PLANT PROCEDURES MANUAL WNP-2

PROCEDURE NUMBER 13.7.10	APPROVED <i>J. Baker</i>	DATE 06/19/86
VOLUME NAME 13 EMERGENCY PLAN IMPLEMENTING PROCEDURES		
SECTION 13.7 PERSONNEL MONITORING, DECONTAMINATION, FIRST AID		
TITLE 13.7.10 OFFSITE EMERGENCY RESPONSE PERSONNEL DOSIMETRY		

13.7.10.1 Purpose

The purpose of this procedure is to describe methods for issuing and retrieving of dosimetry for offsite emergency response personnel during a classified emergency.

13.7.10.2 References

- A. HPD 3.1.5, Permissible Exposure Limits
- B. HPD 3.1.6, Personnel Exposure Monitoring
- C. HPD 3.1.16, Radiation Exposure Monitoring
- D. EPIP 13.14.1, Emergency Exposure Level/Protective Action Guides
- E. RPI Section 4

13.7.10.3 Procedure

<u>Responsibility</u>	<u>Action</u>
Security Officer	<ol style="list-style-type: none">1. Upon notification of impending arrival of offsite emergency response personnel obtain emergency response packets from storage area at the Primary Access Point (PAP) or the Alternate Access Point (AAP).2. Remove Emergency Dosimetry Assignment Card similar to Attachment A, TLD and pocket dosimeter from the packet.

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Responsibility

Security Officer
(Cont'd)

Action

3. Read the pocket dosimeter and record the reading on the card in the appropriate blank. If the reading is more than 100, or is offscale, issue another pocket dosimeter.
4. Give the TLD and pocket dosimeter to the responding individual with instruction to wear these items on their outer clothing between the neck and waist.
5. Retain the Emergency Dosimetry Assignment Card as the Primary Access Point (PAP) or Alternate Access Point (AAP).
6. When emergency response personnel report for departure from the site, retrieve the pocket dosimeter and TLD.
7. If immediate exit from the site is required, read the pocket dosimeter, record the reading, complete the card, and let the individual depart.
8. If immediate exit is not required, read the pocket dosimeter, record the reading, complete the card and contact Health Physics for authorization for departure.
9. Contact Health Physics Center staff to pick up used Emergency Response Packets for processing and replacement.
10. Maintain 15 Emergency Response Packets at the Primary Access Point (PAP) and the Alternate Access Point (AAP). For additional packets contact Health Physics personnel at the Primary Radiological Access Control Point.
11. When contacted replace used Emergency Response Packets.
12. Process used TLD's per RPI Section 4.

Health Physics Center
Staff

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13.7.10	1	13.7.10-2 of 4

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Responsibility

Action

Health Physics Center
Staff (Cont'd)

13. Contact the individual and obtain past exposure information to include current quarters dose. If current quarter exposure exceeds 1250 mRem, then a Form 4 should be completed. If current quarter exposure exceeds 25% of applicable NRC standards the current quarter statement should be signed.
14. If past exposure records are not readily available calculate the dose by using 10CFR20 and assign dose.
15. Schedule a bioassay if applicable.
16. Enter the exposure data into the RER System.

13.7.10.4 Attachments

A. Emergency Dosimetry Assignment Card

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EMERGENCY DOSIMETRY ASSIGNMENT CARD

EMERGENCY DOSIMETRY ASSIGNMENT

TLD No. _____ Date _____

Pocket Dosimeter No. _____

Pocket Dosimeter Reading (Initial) _____

Pocket Dosimeter Reading (Final) _____

Issued To: _____

SSN _____

Company _____ Phone _____

Reason _____

Label Date _____

840366 (4/94)

Attachment A

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLANT PROCEDURES MANUAL

WNP-2

PROCEDURE NUMBER 13.10.7	APPROVED <i>Jim Baker</i>	DATE 04/29/86
VOLUME NAME 13 EMERGENCY PLAN IMPLEMENTING PROCEDURES		
SECTION 13.10 PLANT EMERGENCY FACILITIES		
TITLE 13.10.7 PLANT ADMINISTRATIVE MANAGER DUTIES		

13.10.7.1 Purpose

This procedure describes the emergency responsibilities and duties of the Plant Administrative Manager in the Technical Support Center. These duties include administrative and logistical support in the procurement of critical supplies, equipment, and personnel scheduling for the plant emergency and recovery response. The Plant Administrative Manager will coordinate with the Emergency Operations Facility Administrative Support Manager for procurement of supplies and equipment from outside of the company.

13.10.7.2 References

- A. EPIP 13.10.3, Technical Support Center Director Duties
- B. EPIP 13.11.18, Information Network
- C. EPIP 13.5.5, Personnel Accountability
- D. EPIP 13.13.4, Post Incident Reporting

13.10.7.3 Procedure

<u>Responsibility</u>	<u>Action</u>
Plant Administrative Manager	<ol style="list-style-type: none">1. Upon notification of an Alert, Site Area, or General Emergency, or if so directed, proceed to the Technical Support Center (TSC).2. Assign and supervise support personnel per Attachment A and coordinate administrative activation of the TSC. Assure early establishment of:

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Responsibility

Plant Administrative
Manager (Cont'd)

Action

- a. Center accountability
- b. Dedicated telephone communications
- c. Status board maintenance
3. Provide other administrative services as requested by the Plant Emergency Director.
4. Coordinate with the Administrative Support Manager in the Emergency Operations Facility to:
 - a. Establish schedules to insure continuous administrative support personnel for the plant, the TSC, and the Operations Support Center, as needed.
 - b. Provide transportation, food, and other logistical support for plant emergency personnel.
 - c. Secure needed equipment and supplies from offsite.
 - d. Assure that communication lines are established between TSC and EOF.
5. As directed by the Plant Emergency Director, provide the necessary administrative support for procedure writing during for the recovery effort.
6. Arrange for required training for Supply System or offsite agency emergency response/recovery personnel in coordination with the Emergency Operations Facility Administrative Support Manager.
7. Keep the Plant Emergency Director briefed on the status of administrative support activities.
8. Refer incoming media calls to the Joint Information Center.
9. Upon shift change, fully brief your relief on duties, responsibilities and current status.

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Responsibility

Plant Administrative
Manager (Cont'd)

Action

10. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Collect the individual After Action Reports prepared by staff personnel.
 - c. Deliver all After Action Reports to the Plant Emergency Director.

3.10.7.4 Attachments

- A. Duties of Technical Support Center Administrative Support Staff

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Duties of TSC Administrative Support Staff

A-1 Technical Support Center Stenographers

Assigned to the Plant Emergency Director
Assigned to the Technical Support Center Director

A-2 Technical Support Center Status Boardkeeper(s)

A-3 Technical Support Center FAX Operator

A-4 Technical Support Center Helper

A-5 Plant Information Coordinator

A-6 Technical Support Center Phone Communicator

A-7 Technical Support Center Radio Communicator

A-8 Technical Support Center Accountability Coordinator

A-9 Records Coordinator

--- TSC/OSC Liaison - Refer to EPIP 13.10.3, "Technical Support Center Operations and Technical Support Center Director Duties", Attachment E, Technical Support Center/Operations Support Center (TSC/OSC) Liaison Duties

Attachment A

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Duties of: Technical Support Center Stenographer

Assignment Location: Technical Support Center

Report To: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. Maintain a log of major events and activities involving the Plant Emergency Director or the Technical Support Center Director with emphasis on:
 - a. Receipt of notifications of changes in emergency classification.
 - b. The content of briefings and the identify of persons with whom he interfaces.
 - c. Significant telephone conversations.
 - d. The input and orders for decisions made.
 - e. Any entry at his request.
2. Perform other duties as requested.
3. Refer incoming media calls to the Joint Information Center.
4. Upon shift change:
 - a. Fully brief your relief on responsibilities, duties and current status.
 - b. Forward your log to the Plant Emergency Director or the Technical Support Center Director.
5. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting".
 - b. Deliver After Action Reports to the Plant Emergency Director or the Technical Support Center Director.
6. Upon termination of the emergency, provide any required After Action Report typing and report consolidation needed.

Attachment A-1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Technical Support Center Status Boardkeeper(s)

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. Maintain assigned status board(s):
 - a. Significant events
 - b. Plant status
 - c. Emergency Classification Status Board
2. Copy the Plant Status form after the TSC Director has signed as reviewed and give original to FAX operator for transmittal to the Technical Data Center when updated. Refer to EPIP 13.10.3, "Technical Support Center Director Duties" Attachment D "Plant Status Form". Retain the copy for After Action Report.
3. Assist with other administrative duties as directed by Plant Emergency Director or Plant Administrative Manager.
4. Refer incoming media calls to the Joint Information Center.
5. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
6. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.10.7	3	13.10.7-6 of 13

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Duties of: FAX Operator

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. Using the Fax procedure in the Emergency phonebook, send data to the following location only unless specifically told to send elsewhere:

Fax to the EOF Technical Data Center Extention 213

2. Special Case - FAX all forms entitled FNF Emergency Notification Form to the EOF Communication Center 208
3. Deliver all originals to the Plant Administrative Manager. Note on the original if copies were sent to locations other than those described above.
4. Deliver all material received by FAX to the Technical Support Center Director.
5. Refer incoming media calls to the Joint Information Center.
6. Upon shift change fully brief your relief on responsibilities duties and current status.
7. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.10.7	3	13.10.7-7 of 13

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Duties of: Technical Support Center Helper

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. Perform functions as assigned by the Plant Administrative Manager, which may include:
 - a. Assist in maintaining the center's status boards.
 - b. Assist in logkeeping.
 - c. Photocopy material.
 - d. Answer telephones.
 - e. Deliver messages and other appropriate information.
 - f. Procure additional equipment/supplies.
2. Refer incoming media calls to the Joint Information Center.
3. Upon shift change, fully brief your relief on responsibilities, duties, and status.
4. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-4

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: TSC Information Coordinator

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert or Higher Classification

Responsibilities

Refer to EPIP 13.11.18, "Information Network" for responsibilities.

Attachment A-5

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Duties of: Technical Support Center Phone Communicator

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. Verify dedicated telephone communications network with the Control Room, Operations Support Center and Emergency Operations Facility.
2. Act as overall phone communicator for the Technical Support Center as needed.
3. Buffer the Plant Emergency Director from incoming nuisance calls.
4. Refer incoming media calls to the Joint Information Center.
5. Upon shift change, brief your relief on responsibilities, duties, and current status.
6. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-6

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Technical Support Center Radio Communicator

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. When directed, set up and maintain radio communications with other onsite and offsite emergency centers and staff.
2. As necessary maintain field team location(s) on the field team maps.
3. Transmit outgoing traffic as directed by the Radiation Protection Manager, Plant Emergency Director or Technical Support Center Director.
4. Receive and log incoming traffic and route messages to the designated staff members.
5. Assist the Plant Administrative Manager with other administrative duties, as directed.
6. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
7. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-7

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Technical Support Center Accountability Coordinator

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. Refer to EPIP 13.5.5, "Personnel Accountability Duties" and implement the applicable section.
2. Assist the Plant Administrative Manager in other administrative duties as directed.
3. Refer incoming media calls to the Joint Information Center.
4. Upon shift change, brief your relief on responsibilities, duties and current status.
5. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-8

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Records Coordinator

Assignment Location: Technical Support Center

Report to: Plant Administrative Manager

Activation Level: Alert

Responsibilities

1. When directed perform record/ document control duties.
2. Assist the Plant Administrative Manager with other administrative duties as directed.
3. Refer incoming media calls to the Joint Information Center.
4. Upon shift change, brief your relief on responsibilities, duties and current status.
5. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver After Action Reports, and all logs to the Plant Administrative Manager.

Attachment A-9

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WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLANT PROCEDURES MANUAL

WNP-2

PROCEDURE NUMBER 13.10.9	APPROVED <i>[Signature]</i>	DATE 04/13/87
VOLUME NAME 13 EMERGENCY PLAN IMPLEMENTING PROCEDURE		
SECTION 13.10 PLANT EMERGENCY FACILITIES		
TITLE 13.10.9 OPERATIONS SUPPORT CENTER OPERATIONS AND OPERATIONS SUPPORT CENTER DIRECTOR DUTIES		

13.10.9.1 Purpose

The purpose of this procedure is to describe the responsibilities of the Operations Support Center Director and the operation of the Operations Support Center. The Service Building lunchroom will normally serve as the center. If the need arises, the Makeup Water Chemistry Laboratory in the Service Building basement can serve as an alternate location for the Center.

13.10.9.2 References

- A. EPIP 13.5.1, Controlled Evacuation of the Protected Area
- B. EPIP 13.5.5, Personnel Accountability
- C. EPIP 13.5.6, Personnel Search and Rescue
- D. EPIP 13.7.8, Transportation of Injured or Contaminated Injured Personnel to an Offsite Medical Facility
- E. EPIP 13.10.12, Reentry Team Duties
- F. EPIP 13.10.13, Recovery Team Duties
- G. EPIP 13.11.18, Information Network
- H. EPIP 13.13.4, Post Incident Reporting

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13.10.9.3 Procedure

<u>Responsibility</u>	<u>Action</u>
Operations Support Center Director	<ol style="list-style-type: none">1. Upon notification of an Alert, a Site Area or a General Emergency, or if so directed, proceed to the Operations Support Center (OSC) and assume the duties.2. Direct the initiation of accountability operations per EPIP 13.5.5, "Personnel Accountability."3. For personnel unaccounted for, initiate search and rescue per EPIP 13.5.6, "Personnel Search and Rescue".4. Direct the collection of all required equipment, such as radios.5. Advise the Technical Support Center Director of availability and when the OSC is functional (sufficiently staffed to handle the situation).6. Assign administrative support personnel as defined in Attachments D-1 through D-9.7. Ensure the monitoring for habitability of the OSC has been implemented. If the OSC becomes uninhabitable:<ol style="list-style-type: none">a. Have the Lead Health Physics Person establish the habitability of the Makeup Water Chemistry Laboratory in the Service Building.b. Inform the Plant Emergency Director.c. Relocate essential personnel to the alternate OSC.d. Evacuate non-essential personnel per instructions in EPIP 13.5.1 "Controlled Evacuation of the Protected Area".

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Operations Support Center
Director (Cont'd)

8. If a controlled or immediate evacuation is implemented, refer to the appropriate section of EPIP 13.5.5 "Personnel Accountability" for guidance in accountability for emergency and non-essential personnel.
9. Verify operability of communications equipment, and establish communications with the Control Room.
10. Direct the Information Coordinator to transmit announcements over the information network that personnel in other centers should know.
11. Ensure that the Significant Events Status Board Logs, similar to Attachment B, and other status boards are being maintained as necessary.
12. Contact the Plant Administrative Manager for any additional manpower needs.
13. Control entry of personnel into all areas of the protected area.
14. For medical emergencies requiring transportation of individual(s) offsite, refer to EPIP 13.7.8, "Transportation of Injured or Contaminated Injured Personnel to an Offsite Medical Facility."
15. When advised by the Plant Emergency Director to initiate reentry into radiological areas for the manipulation or modification of equipment, confer with the Lead Health Physics Person and initiate the appropriate section of EPIP 13.10.12 "Reentry Team Duties".
16. Keep the Plant Emergency Director and Shift Manager apprised of the Reentry Team's progress.
17. When conditions allow, have the Chemistry Support personnel man the Chemistry Lab. Provide Health Physics coverage as required. Provide additional Chemistry personnel to perform logkeeping tasks as necessary.

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<u>Responsibility</u>	<u>Action</u>
Operations Support Center Director (Cont'd)	<ol style="list-style-type: none">18. When advised to have Chemistry personnel pull PASS samples, assign a Health Physics Technician to accompany the Chemist.19. When the recovery phase of an emergency is declared and entry into radiological areas is required for manipulation or modification of equipment, confer with the Lead Health Physics Person and implement EPIP 13.10.13 "Recovery Team Duties".20. Refer incoming media calls to the Joint Information Center.21. Upon shift change, turn over Log and fully brief your relief of responsibilities, duties and current status.22. Upon shift change or termination of the emergency:<ol style="list-style-type: none">a. Prepare your individual After Action Reports. Refer to EPIP 13.13.4, "Post Incident Reporting."b. Collect After Action Reports prepared by staff personnel.c. Deliver all After Action Reports, Status Board Logs, and Significant Events Logs to the Plant Emergency Director.
Responding Support Personnel	<ol style="list-style-type: none">23. Perform preassigned duties.24. Perform other assignments as directed.

13.10.9.4 Attachments

- A. Emergency Team Tracking Log
- B. Significant Events Log
- C. Operations Support Center Activation Cards
- D. Operations Support Center Administrative Staff
- E. Service Building Checkout Log
- F. Operations Support Center Floor Plan

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EMERGENCY TEAM TRACKING LOG

[illegible]

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OPERATIONS SUPPORT CENTER SIGNIFICANT EVENTS STATUS BOARD .

[illegible]

Date _____ Initials _____

Attachment B

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OPERATIONS SUPPORT CENTER ACTIVATION CARDS

- C-1 Person in Charge
- C-2 Equipment Person
- C-3 Radiological Monitor A
- C-4 Radiological Monitor B
- C-5 Accountability Person

Attachment C
Page 1 of 6

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OPERATIONS SUPPORT CENTER ACTIVATION CARDS

Activation Card #1: Person in Charge

- A. Coordinate activation of Operations Support Center functions. Direct setup similar to Attachment F, OSC Floor Plan.
- B. Assign Activation Cards sequentially to responding personnel. Observe any special instructions on each card. Ensure the actions are being carried out.
- C. Ensure that incoming personnel are monitored for contamination.
- D. Ensure that all arriving personnel log in via security keycard system and the manual accountability log system. Direct emergency personnel to the equipment lockers area, and nonessential personnel to the other side of the room.
- E. Instruct arriving personnel to remain in the Operations Support Center until directed otherwise.
- F. Notify the Control Room and the Technical Support Center of your arrival, name, emergency organization assignment and the status of the Operations Support Center. Keep the Shift Manager and the Plant Emergency Director informed of operational status.
- G. Establish contact with the Shift Support Supervisor and provide information on personnel status and support as requested.
- H. Properly brief and be relieved by the Operations Support Center Director upon his arrival.

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Activation Card #2: Equipment Person (2nd arriving emergency response person)

- A. If a Health Physics person with locker and cabinet keys is not available, proceed to Access Control and obtain Operations Support Center emergency equipment locker and emergency supplies cabinet keys from the key box.
- B. Return to Operations Support Center and unlock the Operations Support Center emergency equipment locker and emergency supplies cabinet. Remove and set up overhead projector.
- C. Distribute Significant Events Logs to overhead projector location.
- D. Remove radio(s), charger(s), and base unit. Plug in.
- E. Assist person in charge as needed.
- F. Obtain the key from the inside of the cabinet door for the telephone box. Unlock the box and remove phones. Place all equipment in accordance with locations similar to Operations Support Center Floor Plan. Refer to diagram Attachment F.

Attachment C
Page 3 of 6

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SPECIAL INSTRUCTIONS: Assign this card to the first available Health Physics person arriving.

Activation Card #3: Health Physics Tech. A

- A. Obtain portable monitoring equipment from the cabinet. Perform operational checks on equipment before using.
- B. Establish contamination control points at Access Control, the Service Building entrance, and the Operations Support Center entrance. Survey personnel in the Center that were not surveyed for contamination as they entered. Segregate any personnel found contaminated.
- C. At Alert or higher classification, restrict access through the Maintenance Shop South roll-up door and the 441' level I&C Shop North door.
- D. Make arrangements for personnel decontamination as necessary.
- E. Maintain a continuous surveillance of the radiological habitability of the Center (dose rate and airborne levels). Keep the Operations Support Center Director informed.
- F. Brief the Lead Health Physics Person upon his arrival.

Attachment C
Page 4 of 6

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SPECIAL INSTRUCTIONS: Assign this card to the second available Health Physics person arriving.

Activation Card #4: Health Physics Tech. B

- A. If Plant Emergency Teams or Reentry Teams are to be dispatched, assist team members with dress out (in anti-Cs or fire gear), and obtaining emergency dosimetry.
- B. When assisting team members that are being dispatched into areas with a potential for airborne radioiodine exposure, check protective clothing to insure no skin areas are exposed.
- C. Perform the following duties until relieved by the Health Physics Logkeeper.
 - o Distribute emergency dosimetry and keep a log of exposure history.
 - o Read and log in pencil dosimeters and estimated dose from returning teams.

Attachment C
Page 5 of 6

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Activation Card #5: Accountability Person

Refer to EPIP 13.5.5 "Personnel Accountability" Attachment A and implement "Activation Card #5 Accountability Duties".

Attachment C
Page 6 of 6

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OPERATIONS SUPPORT CENTER ADMINISTRATION STAFF DUTIES

- D-1 Significant Events Logkeeper
- D-2 Team Tracking Locator
- D-3 Radio Communicator
- D-4 Phone Communicator
- D-5 Information Coordinator
- D-6 Stenographer
- D-7 Certified Vendor Information Clerk
- D-8 Health Physics Logkeeper
- D-9 Accountability Person
- D-10 Team Briefer/Debriefer

Attachment D

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Duties of: Operations Support Center Significant Events Logkeeper

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Maintain the Significant Events Log (i.e., status board via overhead projection).
2. When full, file the log in a notebook for the briefing of incoming personnel. Preserve the log for After Action Reports at the termination of the emergency.
3. Assist with other administrative duties as directed by Operations Support Center Director.
4. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
5. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Operations Support Center Team Tracking Locator

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Maintain the Team Location Status Board up to date.
2. When full, make a log copy of the status board. Maintain the log for future reconstruction documentation upon termination of the emergency.
3. Assist the Operations Support Center Director in team control and other administrative duties as directed.
4. Assist the Radio Communicator and/or Phone Communicator in maintaining contact with the teams on assignment.
5. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
6. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-2

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Duties of: Operations Support Center Radio Communicator

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Set up and maintain radio communications with dispatched teams as necessary.
2. Assist the Team Tracking Locator.
3. Coordinate with the Operations Support Center Director in communicating duties and directions to each team.
4. Relay team messages to the Operations Support Center Director as necessary.
5. Assist the Operations Support Center Director with other administrative duties as directed.
6. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
7. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Operations Support Center Phone Communicator

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Act as the phone communicator for the Operations Support Center Director.
2. Assist the Team Tracking Locator if teams are utilizing phones for communications.
3. Assist with other administrative duties as directed by Operations Support Center Director.
4. Upon shift change, brief your relief on responsibilities, duties, and current status.
5. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-4

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Duties of: Operations Support Center Information Coordinator

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

Implement duties as directed in EPIP 13.11.18 "Information Network".

Attachment D-5

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Duties of: Operations Support Center Stenographer

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Maintain a log of all major events and activities involving the OSC Director or his designee, with emphasis on:
 - a. Receipt of notifications of changes in emergency classification.
 - b. The content of briefings and the identity of persons with whom he interfaces.
 - c. Significant telephone conversations.
 - d. The input and orders for decisions made.
 - e. Any entry at his request.
2. Perform other duties as requested by the OSC Director or his designee.
3. Upon shift change:
 - a. Fully brief your relief of responsibilities, duties and current status.
 - b. Forward your log to the OSC Director.
4. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.
5. Upon termination of the emergency, provide the OSC Director with any required After Action Report typing and report consolidation needed.

Attachment D-6

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Duties of: Certified Vendor Information Clerk

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Perform record searches, retrievals, and administrative duties as directed by the Operations Support Center Director.
2. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
3. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-7

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Duties of: Health Physics Logkeeper

Assignment Location: Operations Support Center

Report to: Operations Support Center Lead Health Physicist

Activation Level: Alert

Responsibilities

1. Document all reported health physics data. Keep the Lead Health Physics Person informed.
2. Update the survey maps with the most current data.
3. Update the Hazardous Area(s) Status Board.
4. Assist the Lead Health Physics person as directed.
5. Distribute emergency dosimetry and keep a log of exposure history.
6. Read and log in pencil dosimeters and estimated dose from returning teams.
7. Upon shift change, fully brief your relief of responsibilities, duties and current status.
8. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the Lead Health Physicist Person.

Attachment D-8

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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Duties of: Operations Support Accountability Coordinator

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Refer to EPIP 13.5.5 "Personnel Accountability Duties" and implement the applicable section.
2. Assist the Operations Support Center Director in other administrative duties as directed.
3. Maintain a log similar to Attachment E "Service Building Checkout Log" of all personnel who leave the OSC.
4. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-9

PROCEDURE NUMBER 13.10.9	REVISION NUMBER 5	PAGE NUMBER 13.10.9-22 of 25
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Duties of: Operations Support Center Briefing/Debriefing

Assignment Location: Operations Support Center

Report to: Operations Support Center Director

Activation Level: Alert

Responsibilities

1. Complete, process and maintain a team briefing/debriefing form for each reentry/recovery team dispatched from, and returning to the OSC pursuant to EPIP 13.10.12/13.10.13.
2. Assist the OSC Director in the briefing/debriefing of the teams and with other administrative duties as directed.
3. Assist the Team Tracking Locator and Accountability Coordinator in the tracking of teams/personnel as required.
4. Upon shift change, fully brief your relief on responsibilities, duties, and current status.
5. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the OSC Director.

Attachment D-10

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Service Building Checkout Log

Attachment E

WP-598 R1 (9-83)

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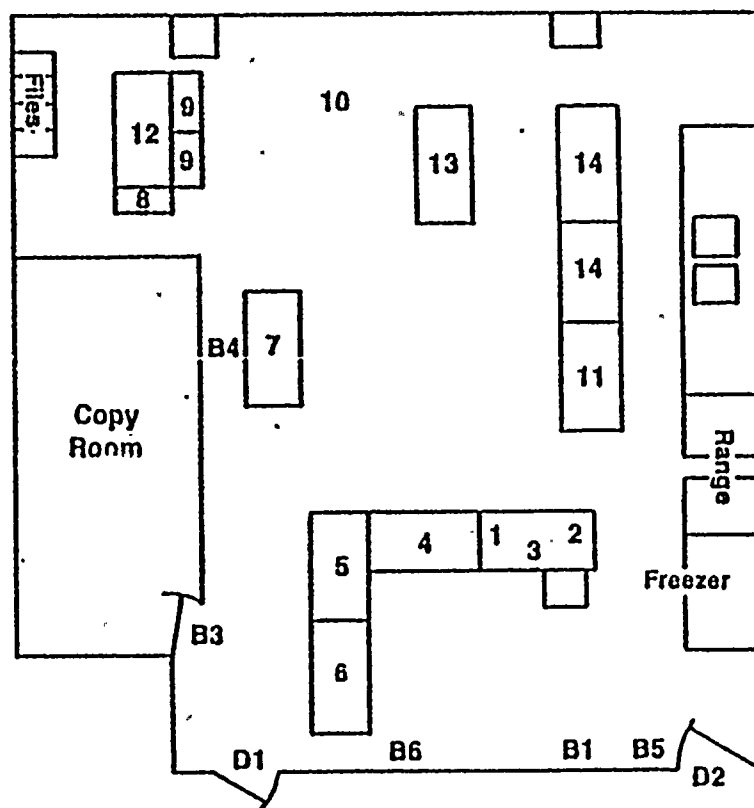
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Operations Support Center Floor plan
(Similar to)

850851.1A



1. OSC Director
2. Phone Communicator (dedicated phone)
3. Stanographer
4. Information Coordinator (dedicated phone, projector, Information Coordinator Checklist, Significant Events Log)
5. Personnel Accountability (Room phone, Personnel Accountability Log, Missing Individual Log)
6. Team Tracking (Room phone, Radio Base Station, Team Tracking Log, Team Loader Cards)
7. Lead Health Physicist (Dedicated phone, Health Physics Log)
8. OSC Supplies Cabinet
9. Emergency Equipment Cabinet
10. Emergency Equipment Lay Down Area
11. Team Briefing / Debriefing Area
12. Print Tables (No Chairs)
13. Plant Emergency Team
14. Maintenance Support Personnel

Boards located on walls

- B1. Classification Status Board, Plant Status Board
- B2. OSC Status Board (Team Tracking)
- B3. OSC Personnel Board
- B4. HP Plant Maps
- B5. Plant Hazardous Areas Board
- B6. Screen for Significant Events
- D1. OSC Access
- D2. Closed during OSC Activation

Attachment F

PROCEDURE NUMBER

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REVISION NUMBER

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PROCEDURE NUMBER 13.11.13	APPROVED <i>C. W. Baker</i>	DATE 04/13/87
VOLUME NAME 13	EMERGENCY PLAN IMPLEMENTING PROCEDURES	
SECTION 13.11	EMERGENCY OPERATIONS FACILITY	
TITLE 13.11.13	EOF PUBLIC INFORMATION TEAM DUTIES	

13.11.13.1 Purpose

This procedure describes the activation and operation of the Emergency Operations Facility (EOF) Public Information Team. The purpose of this team is to provide a single source for the timely transmission of technically correct public information to the Joint Information Center (JIC). This team reports to the Recovery Manager. The Team consists of the Public Information Officer and technical liaisons.

13.11.13.2 References

EPIP 13.13.4, Post Incident Reporting

13.11.13.3 Procedure

Responsibility

EOF Public Information
Officer

Action

1. Upon notification of an Alert, Site Area or General Emergency, notify team members and proceed to the Emergency Operations Facility.
2. Upon arrival at the EOF, notify the Administrative Support Manager of availability.
3. Coordinate activities of EOF Public Information Team as needed.
4. Advise the Recovery Manager on matters pertinent to public information and JIC status and operations.

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Responsibility

EOF Public Information
Officer (Cont'd)

EOF Public Information
Officer/Technical
Liaisons

Action

5. Obtain approval from the Recovery Manager for media tours and briefings at the EOF. Ensure detailed coordination with the JIC Director/Media Management Team.
6. Ascertain the status of the event. Get technical approval of information from the Assistant Recovery Manager and advise JIC Director/Spokesperson or Supply System News Writing Team.
7. Complete technical bulletins and give to word processing to send to JIC.
8. Maintain a log of pertinent events.
9. Refer any calls from the media to the Joint Information Center.
10. Upon shift change, fully brief your relief as to events which have transpired.
11. Upon shift change or termination of the JIC function:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver the original After Action Report to the JIC Director and provide a duplicate after action report to the Assistant Recovery Manager.

13.11.13.4 Attachments

None

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PROCEDURE NUMBER 13.12.5	APPROVED <i>J. Baker</i>	DATE 04/13/87
VOLUME NAME 13 EMERGENCY PLAN IMPLEMENTING PROCEDURES		
SECTION 13.12 HEADQUARTERS EMERGENCY CENTERS		
TITLE 13.12.5 ASSISTANT JOINT INFORMATION CENTER DIRECTOR DUTIES		

13.12.5.1 Purpose

This procedure describes the responsibilities of the Assistant JIC Director who is the primary coordinator of agencies and jurisdictions responding to the Joint Information Center. The Assistant JIC Director has the authority to sign/approve/coordinate news releases on behalf of the Supply System, and is responsible for obtaining necessary approvals/coordination from other agencies. He/she reports to the JIC Director and supervises the JIC Production Team.

13.12.5.2 References

- A. EPIP 13.12.4, Joint Information Center Director
- B. EPIP 13.13.4, Post Incident Reporting

13.12.5.3 Procedure

Responsibility

Assistant JIC Director

Action

1. Upon notification of an Alert, Site Area or General Emergency, or as directed, report to the JIC in the Corporate Headquarters and obtain an ID badge.
2. Report to the JIC Director and obtain a status update.

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Responsibility

Assistant JIC Director
(Cont.)

Action

3. Establish contact with offsite agencies/jurisdictions as they arrive at the JIC, assisting them in setting up their operations as necessary, and referring logistic/facilities needs to the Support Manager.
4. Act as the point of contact for offsite agencies/jurisdictions calling to give their estimated times of arrival and interim points of contact.
5. Obtain Supply System news releases approved by the JIC Director and:
 - a. Obtain coordination signature from offsite agencies present in the JIC.
 - b. Call the State of Washington for coordination if they are not already present, signing with the initials of State person authorizing release, and sending hard copy to follow.
 - c. Deliver the signed copy to the Production Team.
6. Sign releases from offsite agencies/jurisdictions indicating coordination with the Supply System. Verbal agreement by phone should be given to the State of Washington prior to their arrival if necessary.
7. Act as liaison between all agencies at the JIC, ensuring that the agencies' representative(s) are coordinating verbal as well as written information between press conferences.
8. Take incoming messages/requests for offsite responding personnel not yet present.
9. Perform other duties as assigned by the JIC Director and assume his duties during any absences. Refer to EPIP 13.12.4, "Joint Information Center Director".
10. Upon shift change, fully brief your relief as to events which have transpired.

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Responsibility

Assistant JIC Director
(Cont.)

Action

11. Upon shift change or termination of the JIC function:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Collect the individual After Action Reports prepared by any staff personnel.
 - c. Deliver all After Action Reports to the JIC Director.

13.12.5.4 Attachments

None

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VOLUME NAME 13 EMERGENCY PLAN IMPLEMENTING PROCEDURES		
SECTION 13.12 HEADQUARTERS EMERGENCY CENTERS		
TITLE 13.12.4 JOINT INFORMATION CENTER DIRECTOR DUTIES		

13.12.4.1 Purpose

This procedure describes the activation and operation of the Joint Information Center (JIC), and the emergency responsibilities of the JIC Director. The JIC Director is responsible for the timely release of accurate information to the public and media and for responses to rumors. He reports to the Recovery Manager and manages all public information functions through supervision of the Assistant Joint Information Center Director, Media Manager, Information Manager, Support Manager, Spokesperson(s), Supply System News Writing Team, Technical Spokespersons and JIC Secretary. He is also chairman of the joint agency News Coordination Team.

13.12.4.2 References

EPIP 13.13.4, Post Incident Reporting

13.12.4.3 Procedure

<u>Responsibility</u>	<u>Action</u>
JIC Director	<ol style="list-style-type: none">1. Upon notification of an Alert, Site Area or General Emergency, or as directed, proceed to the Joint Information Center at Corporate Headquarters.2. Upon arrival at the JIC, sign in at the Support Manager's office and obtain an ID badge.

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Responsibility

JIC Director ((Cont.))

Action

3. Receive reports from the EOF Public Information Officer and/or Recovery Manager on events at the site.
4. Notify KONA radio station, Associated Press and United Press International of the status of the event and keep them updated until the media phone team is activated.
5. Fully brief reporting staff (Support Manager, Information Manager, Spokesperson, outside agencies/jurisdiction representatives, Assistant JIC Director, Media Manager, Supply System News Writing Team, Technical Spokesperson and JIC secretary (See Attachment A for secretary's duties).
6. Direct operations of the JIC through supervision of the Assistant JIC Director, Media Manager, Information Manager, Support Manager Spokesperson(s), Supply System News Writing Team and Technical Spokesperson or delegate responsibilities to the Assistant JIC Director.
7. Notify the Recovery Manager and County and State EOCS when the JIC is operational.
8. Serve as chairman of the News Coordination Team.
9. Authorize all Supply System news releases and provide them to the Assistant JIC Director for News Coordination Team coordination.
10. Schedule and host news conferences at regular intervals by:
 - a. Assigning an individual to alert the media and JIC staff of upcoming press conferences whenever possible.
 - b. Meeting with News Coordination Team and Spokespersons before news conferences to assure all have an opportunity to present information and to minimize data inconsistencies.

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Responsibility

JIC Director (Cont.)

Action

- c. Closing news conferences after allowing reasonable time for media questions.
- d. Making technical spokespersons available to the media.
- 11. Assign an individual to monitor TV and radio news broadcasts.
- 12. Assure the Supply System Spokesperson is fully briefed before news conferences or interviews.
- 13. As needed, assist the Media Manager in meeting requests from media present in the JIC, and in handling rumors or site related information.
- 14. Advise the Recovery Manager, or if present the Managing Director/Representative, on JIC operations and media/public perceptions.
- 15. Coordinate media tours of the EOF with the EOF Public Information Officer and the Media Manager.
- 16. Maintain log of all pertinent activities.
- 17. Upon shift change, fully brief your relief as to events which have transpired.
- 18. Upon downgrading of the emergency and dismissal of emergency personnel:
 - a. Determine if sufficient media and public concern exists to continue operation of the JIC.
 - b. Reduce level of staffing as appropriate.
 - c. When media and public concern are deemed sufficiently reduced, terminate the JIC operations.
 - d. Assign personnel to Recovery Team.

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Responsibility

JIC Director (Cont.)

Action

19. Upon shift change or termination of the JIC function:

- a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
- b. Collect the individual After Action Reports prepared by all JIC staff personnel.
- c. Deliver all After Action Reports to the Assistant Recovery Manager.

13.12.4.4 Attachments

Attachment A, Duties of Joint Information Center Secretary

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Duties of: Joint Information Center Secretary

Assignment Location: Joint Information Center

Report To: JIC Director

Activation Level: Alert

Responsibilities

1. Maintain a log of major events and activities involving the JIC Director or Assistant JIC Director with emphasis on:
 - a. Receipt of notifications of changes in emergency classification.
 - b. The content of briefings and the identity of persons with whom he interfaces.
 - c. Significant telephone conversations.
 - d. The input and orders for decisions made.
 - e. Any entry at his request.
 - f. Meeting highlights.
 - g. Assignment of action items.
2. Perform other duties as requested.
3. Upon shift change:
 - a. Fully brief your relief on responsibilities, duties and current status.
 - b. Forward your log to the JIC Director.
4. Upon shift change or termination of the emergency:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting".
 - b. Deliver After Action Reports to the JIC Director.
5. Upon termination of the emergency, provide any required After Action Report typing and report consolidation needed.

Attachment A

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VOLUME NAME 13	EMERGENCY PLAN IMPLEMENTING PROCEDURES	
SECTION 13.12	HEADQUARTERS EMERGENCY CENTERS	
TITLE 13.12.3	JOINT INFORMATION CENTER NEWS COORDINATION TEAM DUTIES	

13.12.3.1 Purpose

This procedure describes the activation and operation of the News Coordination Team and the emergency responsibilities of the personnel on the team. The team will consist of representatives of emergency response agencies from: Benton and Franklin Counties, Department of Energy—Richland Operations, State of Washington, Nuclear Regulatory Commission, Federal Emergency Management Agency and other concerned agencies as they respond. The Supply System Joint Information Center Director sits on the team and serves as chairperson. Primary coordination of written information is handled by the Assistant Joint Information Center Director.

The basic functions of the team members are to jointly coordinate releases of information to the public via the media; to provide accurate information to the public in a timely manner regarding operations in their jurisdiction; and to respect provisions established in memorandums of understanding between said parties.

13.2.3.2 References

- A. All pertinent plans and procedures of above mentioned agencies and jurisdictions.
- B. All pertinent memorandums of understanding between above mentioned agencies and jurisdictions.
- C. EPIP 13.12.6, Joint Information Center Production Team
- D. EPIP 13.13.4, Post Incident Reporting

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13.2.3.3 Procedure

Responsibility

All Members

Action

1. Upon notification of an incident, follow your agency's or jurisdiction's procedures to acquire available information about the declared status of the incident.
 - a. If the incident is declared an Unusual Event, no response to the Joint Information Center (JIC) is required.
 - b. If the incident is an Alert, Site Area or General Emergency, report to the JIC in the Supply System Corporate Headquarters, Richland, Washington.
2. Before departing for the JIC, notify the Assistant JIC Director of:
 - a. Your estimated time of arrival at the JIC.
 - b. Your agency's/jurisdiction's designated interim spokesperson during transit time.
3. If you need to issue public statements before arriving at the JIC, distribute copies to the JIC, County, State, DOE and EOF via the TELEFAX network simultaneous with, or prior to, issuance to the public via the media.
4. Upon arrival at the JIC:
 - a. Notify JIC Director and Assistant JIC Director of your arrival, and proceed to designated work area.
 - b. Obtain an ID badge.
 - c. Re-establish contact with your parent agency/jurisdiction.
 - d. Prepare status reports and/or news releases as appropriate.

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Responsibility

All Members (Cont'd)

Action

5. Provide the Production Team with written news releases which:
 - a. Have all required signatures:
 - b. Are on agency letterhead.
 - c. Have headlines that reflect major news covered.
 - d. Have a time that indicates when that news was known/thought to be accurate.
 - e. Are dated.

NOTE: Refer to EPIP 13.12.6, "Joint Information Center Production Team," for details on consistency, editing, chronology composition, sequential numbering, and duplication and distribution of news releases.

6. Assure the presence of a designated Spokesperson for your agency/jurisdiction at news conferences.
7. Attend pre-news conference team meetings and coordinate information to be released.
8. Coordinate with the Assistant JIC Director or Support Manager on any administrative/logistical support needs.
9. Upon shift change, fully brief your relief on events which have transpired.
10. Upon shift change or termination of the JIC function:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the JIC Director.

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Responsibility

Action

JIC Director

11. Schedule news conferences at regular intervals and as events dictate.
12. Conduct News Coordination Team meetings before each news conference for a review of information to be released. Attempt to resolve any inconsistencies.
13. Preside at news conferences, acting as "master of ceremonies".

Assistant JIC Director

14. Sign news releases that have been coordinated with the Supply System.
15. Obtain coordination sign-offs from outside agencies on written Supply System news releases.

13.12.3.4 Attachments

None

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PROCEDURE NUMBER 13.12.11	APPROVED <i>[Signature]</i>	DATE 04/13/87
VOLUME NAME 13 EMERGENCY PLANT IMPLEMENTING PROCEDURES		
SECTION 13.12 HEADQUARTERS EMERGENCY CENTERS		
TITLE 13.12.11 JOINT INFORMATION CENTER INFORMATION MANAGER DUTIES		

13.12.11.1 Purpose

This procedure describes the responsibilities of the Information Manager. The Information Manager is responsible for taking appropriate action regarding rumors identified by telephone teams or other sources. The Information Manager reports to the JIC Director, and supervises the Media Telephone Team, the Public Information Telephone Team, and the Distribution Team.

13.12.11.2 References

EPIP 13.13.4, Post Incident Reporting

13.12.11.3 Procedure

<u>Responsibility</u>	<u>Action</u>
Information Manager	<ol style="list-style-type: none">1. Upon notification of an Alert, Site Area or General Emergency, or as directed, report to the JIC in the Corporate Headquarters.2. Sign in at the Support Manager's office and obtain an ID badge. Get a status briefing from the JIC Director. Refer to Attachment A, "Checklist for Information Manager".3. Fully brief the Media Telephone Team Supervisor and Public Information Telephone Team Supervisor as they arrive.4. Inform the JIC Director, the Media Manager, the Company Telephone Operator and the JIC secretaries when the media and public information phone teams are operable.

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Responsibility

Action

Information Manager (Cont.)

5. Ensure that the initial media notification has been completed by the media Telephone Team Supervisor, and direct follow-up media notifications on a discretionary basis.
6. Attend press conferences.
7. Respond to rumors identified by telephone teams or other sources as deemed appropriate.
8. Review wire stories on the event, and respond to misinformation.
9. Ensure special audiences are provided with updated information as appropriate (see Attachment B).
10. Keep JIC Director/Assistant informed of status and needs of the telephone teams in the JIC.
11. Relay any logistical support needs to the Support Manager.
12. Ensure that the status boards located in the lobby, Ellensburg Room, and Walkley Room are being kept up-to-date by the responsible individual.
13. Maintain a log of pertinent events.
14. Upon shift change, fully brief your relief as to events which have transpired.
15. Upon shift change or termination of the JIC function:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Collect the individual After Action Reports prepared by any staff personnel.
 - c. Deliver all After Action Reports to the JIC Director.

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13.12.11 Attachments

- A. Checklist for Information Manager
- B. Special Audience Liaison

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CHECKLIST FOR INFORMATION MANAGER

<u>Actions to be Taken at Alert Level or Above</u>	<u>Time Completed</u>	<u>Initials</u>
A. Sign in on Support Manager's Staffing Board.	_____	_____
B. Call Supervisor of following teams:		
1. Media Phone Team	_____	_____
2. Public Concern Phone Team	_____	_____
3. Supply System News Writing Team	_____	_____
4. Production Team	_____	_____
5. Distribution Team	_____	_____
C. Get briefing from JIC Director (and technical spokesperson if possible).	_____	_____
D. Brief Media and Public Information Telephone Team Supervisors.	_____	_____
E. Announce activation of Telephone Teams and numbers to:		
1. JIC Director	_____	_____
2. Distribution Team	_____	_____
3. Media Manager	_____	_____
4. Supply System Operator "O"	_____	_____
5. JIC Secretaries	_____	_____
F. Confirm that all initial media calls have been made and Telephone Team phone numbers given to the media.	_____	_____
G. Verbally update Telephone Teams on Plant status as necessary.	_____	_____
H. Confirm that training and check on phones has been requested by Phone Team Supervisors.	_____	_____
I. Request (8600) instructions on use of cordless phone.	_____	_____

Attachment A

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SPECIAL AUDIENCE LIAISON

This attachment describes the audiences who should be provided with timely and accurate information should there be an incident at a Supply System plant. Maintain a log of: 1) all materials released, specifying release number, time of transmittal, method of transmittal and audience and b) all recorded messages on either Hotline, including times on, and off and number of calls recorded.

- A. Employees in Richland, Seattle, Satsop, HGP, and Packwood. Key personnel via telephone, all by Hotline and employee telephone hotline.
- B. Industry via Nuclear Network and Infowire. Provide to Supply System Nuclear Network and Infowire coordinator for transmittal.
- C. Executive Board, Full Board and Members via Legal. Provide to Legal designee for transmittal.
- D. Legislature via Legislative Liaison. Provide to liaison for transmittal.
- E. Finance community via Finance. Provide to Finance designee for transmittal.
- F. Local PUD's by telephone.

Attachment B

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLANT PROCEDURES MANUAL

WNP-2

PROCEDURE NUMBER 13.12.15	APPROVED <i>JW Baker</i>	DATE 04/13/87
VOLUME NAME 13 EMERGENCY PLAN IMPLEMENTING PROCEDURES		
SECTION 13.12.15 HEADQUARTERS EMERGENCY CENTERS		
TITLE 13.12.15 JOINT INFORMATION CENTER SUPPORT MANAGER DUTIES		

13.12.15.1 Purpose

This procedure describes the emergency responsibilities of the Joint Information Center (JIC) Support Manager. The Support Manager is responsible for the administrative, staffing, and logistical support functions required to operate the JIC. This position reports to the JIC Director, and supervises the Audio-Visual Support Team, the Receptionist and the JIC Security Staff.

13.12.15.2 References

EPIP 13.13.4, Post Incident Reporting

13.12.15.3 Procedure

Responsibility

Support Manager

Action

1. Upon notification of an Alert, Site Area or General Emergency, proceed to the Joint Information Center at the Corporate Headquarters.
2. At Alert, Site Area or General Emergency, or as directed, initiate full activation of the JIC as follows (refer to Attachment A, Checklist for Support Manager):
 - a. Report to the JIC Director and get status briefing.
 - b. Notify JIC staff per the emergency call list.

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Responsibility

Action

Support Manager (Cont.)

- c. Obtain an ID badge and sign in on the staffing status board.
 - d. Ensure that those who have already arrived have obtained ID badges and signed in on the Support Manager's staffing status board.
 - e. Request the Security Supervisor dispatch a security officer to assist in MPF access control.
 - f. Upon arrival of security officer, brief him/her on duties to be performed and provide a copy of Attachment B, "Duties of JIC Security Officer".
-
- 3. Fully brief the Audio-Visual Support Team and JIC Receptionist.
 - 4. Assure set up of the JIC office area in a manner similar to Attachment C.
 - 5. Plan staffing for the next shift as soon as possible.
 - 6. Arrange facility and logistical support for JIC staff, all responding agencies/jurisdictions, and media as needed.
 - 7. Schedule Audio Visual support as predetermined and on request, maintaining beeper contact with A/V team members.
 - 8. As appropriate, collect and file logs, written releases, FAXES, videotapes, telephone logs, After Action reports and other written records of JIC personnel.
 - 9. Supervise and assist the Receptionist as needed.
 - 10. Maintain a log of pertinent events.

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Responsibility

Action

Support Manager (Cont.)

11. Upon change of shift:
 - a. Fully brief your relief as to events which have transpired.
 - b. Turn over log to replacement.
 - c. Assure that staff reporting to Support Manager are relieved before you depart.
12. Upon shift change or termination of the JIC function:
 - a. Prepare an individual After Action Report. Refer to EPIP 13.13.4, "Post Incident Reporting."
 - b. Deliver all After Action Reports to the JIC Director.
13. Upon JIC closure:
 - a. Collect and file all logs, written releases, FAXES, videotapes, telephone logs, After Action reports and other written records of JIC personnel.
 - b. Assure materials and equipment are returned to their normal configuration.
 - c. Dismiss the reporting staff.

13.12.15.4 Attachments

- A. Checklist for Support Manager
- B. Duties of JIC Security Staff
- C. Joint Information Center Office Area

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CHECKLIST FOR SUPPORT MANAGER

ACTIONS TO BE TAKEN AT ALERT LEVEL OR ABOVE

	<u>Time Completed</u>	<u>Initials</u>
A. Report to JIC Director and get briefing.	_____	_____
B. Notify JIC staff per telephone call list.	_____	_____
C. Sign in on status board and set up Support Manager's office.	_____	_____
D. Brief A/V Support Team and JIC Receptionist.	_____	_____
E. Set up outside agencies offices in JIC office area.	_____	_____
F. Hang up signs in auditorium and media brief- ing and working areas. Assist in setting up tables, typewriters, telephones, etc.	_____	_____
G. Schedule A/V, logistical and facility support.	As Necessary	_____
H. Plan staffing for the next shift as soon as possible.	_____	_____

Attachment A

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Duties of: JIC Security Staff (one Security officer and/or
one assigned employee)

Assignment Location: JIC (Multipurpose Facility Lobby)

Report To: JIC Support Manager

Activation Level: Alert

Responsibilities

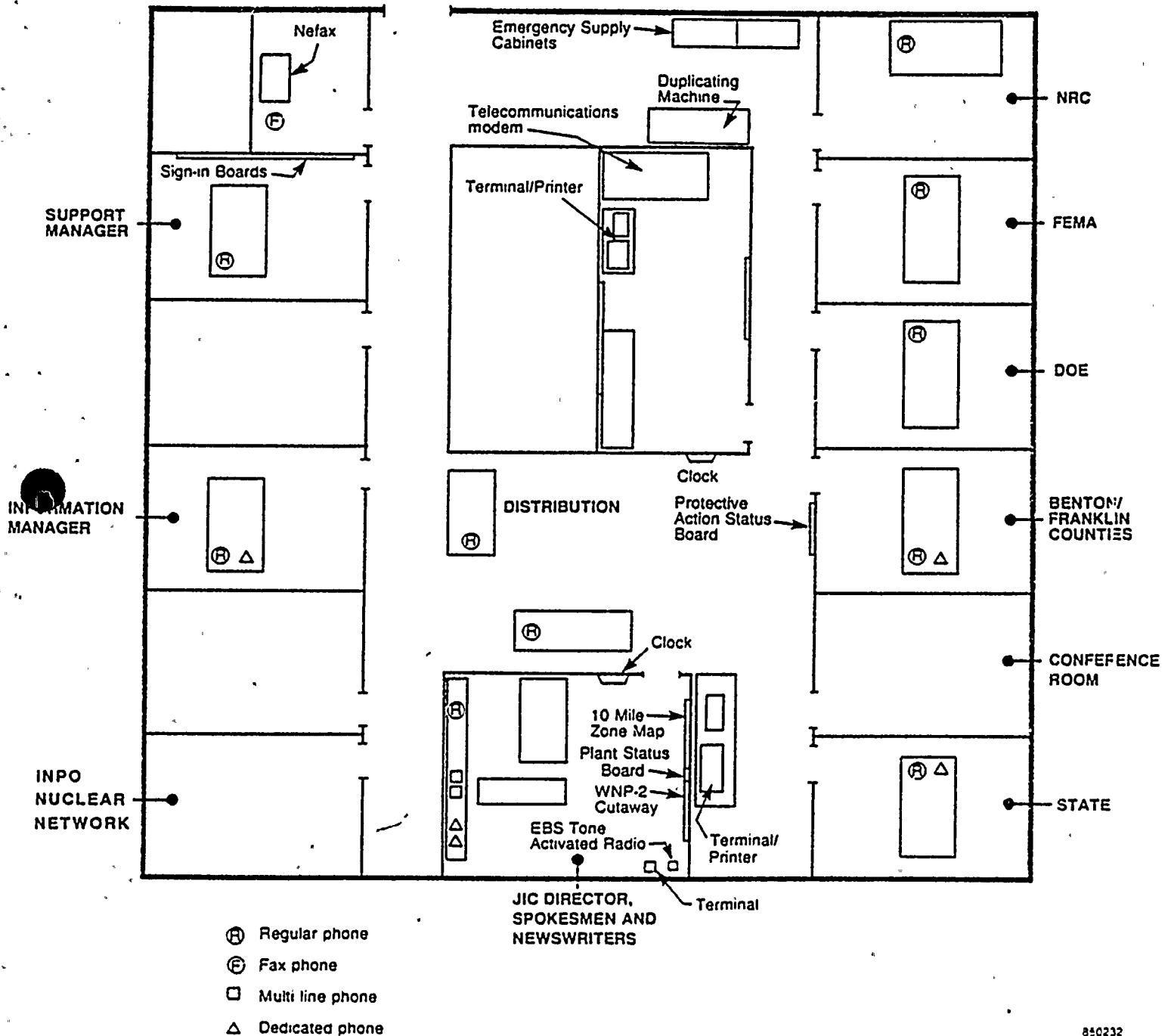
1. Restrict access by the media and public to areas within the Multipurpose Facility (MPF) as specified below:
 - a. Areas open to the media and the public are the lobby and the auditorium.
 - b. Access to all other areas is restricted to properly badge personnel.
 - c.
 1. One person will control access to the JIC office area, the stairs to the second level of the MPF, and the double doors to the main building.
 2. One person will control access to the Walkley Room and the rear areas of the MPF.
 - d. The media and public may use the restrooms near Human Resources.
 - c. Contact the JIC Support Manager for instructions on any unusual requests for access.
2. Provide assistance in the event that the media or public become disruptive and interferes with operation at the JIC. Brief the JIC Support Manager of the disruptive behavior. He/She will determine if local law enforcement assistance is required.
3. Advise the JIC Support Manager of your status every hour.
4. Upon termination of emergency:
 - a. Complete an "After Action Report" Refer to EPIP 13.13.4, "Post Accident Reporting". Give it to the JIC Support Manager.
 - b. Contact the Security Shift Lt. for further instructions. (Security Officer only.).

Attachment B

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JOINT INFORMATION CENTER OFFICE AREA



850232

Attachment C

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WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLANT PROCEDURES MANUAL

WNP-2

PROCEDURE NUMBER 13.14.4	APPROVED <i>J. W. Baker</i>	DATE 04/13/87
VOLUME NAME 13	EMERGENCY PLAN IMPLEMENTING PROCEDURES	
SECTION 13.14	SUPPORTING INFORMATION PROCEDURES	
TITLE 13.14.4	EMERGENCY EQUIPMENT	

13.14.4.1 Purpose

This procedure describes requirements for inspection, inventory, and functional testing of emergency equipment and supplies which are not maintained under other approved procedures. Quantities distinguish between items that are required, which must be present; and items that are desired, which may be present to enhance emergency operations.

13.14.4.2 References

NUREG 0654

13.14.4.3 Procedure

Responsibility

Supervisor, Health Physics,
WNP-2

Action

1. Ensure that the following cabinets are checked in accordance with the instructions outlined in Attachment A, "WNP-2 Emergency Equipment".

Radiological and Fire Emergency Cabinets

Locations:

- o Kit 1E - Service Building, 441' elevation; Operations Support Center (OSC).
- o Kit 2E - 441' elevation, Radwaste Reactor Building Corridor Junction.

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Responsibility

Supervisor Health Physics,
WNP-2 (cont'd)

Action

- o Kit 3E - 471' elevation, Radwaste/Turbine Generator Building Corridor.
- o Kit 4E - 501' elevation, Radwaste/Turbine Generator Building Corridor at Control Room door.
- o Kit 5E - 487' elevation, Radwaste Building outside Chemistry Laboratory.

Decontamination Kits:

Locations:

- o Kit 1D - Service Building, 441' elevation, Access Control.
- o Kit 2D - Radwaste Building, 487' elevation, Decontamination Locker, Men's Locker Room.
- o Kit 3D - Radwaste Building, 487' elevation, Decontamination Locker, Women's Locker Room.

First Aid Kits:

Location:

- o Kit 1FA - 441', Service Building, First Aid Room.
- o Kit 2FA - 487' elevation, Radwaste Building, Health Physics Office.
- o Kit 1FB - 441' elevation, Service Building, Operations Support Center (OSC)
- o Kit 2FB - 441' elevation, Radwaste/Reactor Building Corridor Junction.
- o Kit 3FB - 471' elevation, Radwaste/Turbine Generator Building Corridor.

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Responsibility

Supervisor Health Physics,
WNP-2 (cont'd)

Action

- o Kit 4FB - 501' elevation,
Radwaste/Turbine Generator
Building Corridor at Control Room
Door.
- o Kit 5FB - 487' elevation,
Radwaste Building outside
Chemistry Laboratory.

Emergency Protection Kits:

Location:

- o Kit EPK - Technical Support Center

Shift Manager

2. Completed record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.
3. Ensure that the following alarm systems are demonstrated in accordance with the instructions outlined in Attachment A, "WNP-2 Emergency Equipment."

Plant Exclusive Use Signals:

Location: Control Room

- o Alerting Tone
- o Immediate Evacuation Alarm

Supervisor, Radiological
Services

4. Complete record forms and forward them to the Manager, Emergency Planning and Environmental Programs.
5. Ensure the following are checked in Accordance with the instructions outlined in Attachment B, "Emergency Operation Facility, Emergency Equipment".

Field Monitoring Kits:

Location:

- o Plant Support Facility and
Headquarters

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Responsibility

Supervisor, Radiological
Services (cont'd)

Action

Decon Storage Trailer:

Location:

- o Plant Support Facility

River Evacuation Kits:

Location:

- o Plant Support Facility
- o Headquarters

Equipment for PASS:

Location:

- o Ambulance Bay
- o Counting Room
- o Chemistry Lab

Supervisor, Communications
Services

Assigned Personnel
(As Listed Below)

6. All completed record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.
7. Ensure that the Communications System, with exception of the portions discussed above, is checked in accordance with the instructions outlined in Attachment E, "Communications System".
8. Completed record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.
9. Ensure the following emergency centers are checked in accordance with the instructions outlined in Attachment G, "Emergency Center Equipment and Supplies". Completed record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.

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<u>Responsibility</u>	<u>Action</u>
Manager, WNP-2 Operations	o Control Room
Manager, WNP-2 Technical (Technical Support Center Director)	o Technical Support Center
Manager, WNP-2 Maintenance (Operations Support Center Director)	o Operations Support Center o Alternate Operations Support Center
Manager, WNP-2 Modifications and Upgrades (Site Support Manager)	o Supply System Decision Center
Manager, Security Programs	o Security Decision Center o EOF Communications Center o HQ Communications Center
Senior Specialist, State Liaison (Offsite Agency Coordinator)	o Offsite Agency Coordination Center
Assistant Director Technical, Generation Engineering (Technical Manager)	o Technical Data Center o EOF Records Rooms
Manager Radiological Programs and Instrument Calibration (Radiological Emergency Manager)	o Meteorology and Unified Dose Assessment Center
Senior Media Coordinator (EOF Public Information Officer)	o Media Briefing Preparation Area
Manager, Emergency Planning & Environmental Programs	o NRC Work Area
Manager, Facilities Services (HQ Administrative Support Supervisor)	o Crisis Management Center
Director, Administration & Information Services (Joint Information Center Director)	o Joint Information Center

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Responsibility

Action

Manager, Safety

10. Ensure that the Emergency Operations Facility Medical Equipment and supplies are checked in accordance with Attachment F, "EOF Emergency Medical Equipment and Supplies".
11. Completed record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.

Manager, Emergency Planning and Environmental Programs

12. Ensure the following cabinets are checked in accordance with the instructions outlined in Attachment C, "Hospital Radiological Emergency Kits".

Hospital Radiological Emergency Kits

Locations:

- o Kadlec Hospital, Emergency Room Storage Cabinet
 - o Kennewick Hospital, Emergency Room Storage Closet
 - o Our Lady of Lourdes, Decon Shower Room
 - o Yakima Valley Memorial, Autopsy Room
13. Ensure the Emergency Telephone Directory is maintained in accordance with the instructions outlined in Attachment D, "Emergency Planner Communications System Tests".
 14. Ensure the following dedicated telephone lines are checked in accordance with the instructions outlined in Attachment D, "Emergency Planner Communications System Tests".
 - o Nuclear Regulatory Commission Headquarters
 - o State of Washington Emergency Operations Center (Olympia)

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Responsibility

Action

Manager, Emergency Planning
and Environmental Programs
(cont'd)

15. Monitor compliance with this procedure's requirements, take action to insure discrepancies are corrected, and maintain auditable records of performance of all required checks.

16. Ensure signs are checked in accordance with the instructions of Attachment J, "Off-site Emergency Signs".

HPC Coordinator

17. Ensure that the HVAC is checked in accordance with instructions outlined in Attachment K, "Ventilation Radiation Monitoring".

18. Complete record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.

Supervisor, Facility
Maintenance

19. Ensure that the HVAC and diesel generators are tested in accordance with instructions outlined in Attachment L, "Facility Systems Tests".

20. Completed record forms are to be forwarded to the Manager, Emergency Planning and Environmental Programs.

13.14.4.4 Attachments

- A. WNP-2 Emergency Equipment
- B. EOF/Headquarters Emergency Equipment
- C. Hospital Radiological Emergency Kits
- D. Emergency Planner Communications System Tests
- E. Communications System Tests
- F. EOF Medical Equipment and Supplies
- G. Emergency Center Equipment and Supplies
- H. Sign-In Sheet
- I. Sign-Out Sheet
- J. Off-Site Emergency Signs
- K. Ventilation Radiation Monitoring
- L. Facilities Systems Tests

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WNP-2 EMERGENCY EQUIPMENT

A-1 WNP-2 Radiological and Fire Emergency Cabinet

A-2 WNP-2 Decontamination Kits

A-3 WNP-2 First Aid Kit, Type A

A-4 WNP-2 First Aid Kit, Type B

A-5 WNP-2 Emergency Protective Equipment Kit (TSC)

A-G Plant Exclusive Use Signals

Attachment Section A
Page 1 of 1

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ITEMS IN/NEAR WNP-2 RADIOLOGICAL AND FIRE EMERGENCY CABINET

ITEM	QUANTITY
Air Purifying Respirator	5
Respirator Filter	10
Battery, 6 Volt Lantern	5
Battery, D Cell	1
Bolt Cutter	1
Chain Wrench	1
Sledge	1
Fire Axe	1
Pinch Bar	1
Hacksaw Frame/Blade	1
Pocket Knife	1
Fire Hose Wrench	5
Pipe Wrench	2
6 Volt Lantern	5
Safety Belt	5
Nylon Rope, 100 Feet	1
Leather Gloves	5 Pair
High Voltage Gloves & Leather Covers	2 Pair
Fireman Turnout Gear	5 Sets
- Boots	
- Coats	
- Hood	
- Gloves	
- Helmet/Shield	
Scott Air Pak	5
Scott Spare Bottles	5
Radio Kit	1
Protective Clothing	5 Sets
- Coveralls	
- Rubber Boots	
- Plastic Booties	
- Glove Liners	
- Rubber Gloves	
- Hood/Cap	
Survey Instrument, Dose Rate	1
Survey Instrument, Count Rate	1
(GM Pancake Probe)	
Masking Tape	1 Roll
Pocket Dosimeters, 200 R	5
Dosimeter Charger	1
Iodine Tablets (OSC only)	28 Bottles
+ Silver Zeolite Cartridge (Iodine Sampling)	6

+ The silver Zeolite cartridges are in the OSC kit only (Kit 1E).

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INSTRUCTIONS

WNP-2 RADIOLOGICAL AND FIRE EMERGENCY CABINET

Locations:

- o Kit 1E - Service Building, 441' elevation, Operation Support Center (OSC)
- o Kit 2E - 441' elevation, Radwaste/Reactor Building Corridor Junction
- o Kit 3E - 471' elevation, Radwaste/Turbine Generator Building Corridor
- o Kit 4E - 501' elevation, Radwaste/Turbine Generator Building Corridor at Control Room Door
- o Kit 5E - 487' elevation, Radwaste Building, outside Chemistry Laboratory

Monthly (and after use):

- o Verify spare air bottles full
- o Inspect Scott Air Packs
- o Inspect respirators
- o Verify calibration/expiration dates will not be exceeded prior to next monthly check:
 - o Portable instruments
 - o Iodine tablets (OSC only)
 - o High voltage gloves
- o Inventory Contents
- o Perform operational checks
 - o Dosimeters (rezero)
 - o Portable instruments (battery check)
 - o Six-volt battery lanterns
- o Check physical condition of cabinet contents and replace items as necessary

Attachment A-1
Page 2 of 2

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ITEMS IN/NEAR

WNP-2 DECONTAMINATION KITS

<u>ITEM</u>	<u>QUANTITY</u>
Body Outline Forms	6
Facial Tissue	2 Boxes
Collodion	1 Bottle
Cotton Rolls or Balls	2 Boxes
Cotton Tip Applicators	100
Decon. Detergent	1 Bottle
Gauze Sponge	50
Procedures	1 Set
Masking Tape	1 Roll
Paper Cups	25
Plastic Bags	10
Potassium Permanganate	15 Pkgs.
Sample Envelopes	20
Scissor	1
Skin Conditioner	1 Jar
Sodium Bisulfite	15 Pkgs.
Soft Scrub Brush	2
Nail Brush	
Surgical Gloves	10 Pair
Tongue Depressor	10
Disposable Toweling (RW 487' only)	1 Set

Attachment A-2
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INSTRUCTIONS

WNP-2 DECONTAMINATION KITS

Locations:

- o Kit 1D - Service Building, 441' elevation, Access Control
- o Kit 2D - Radwaste Building, 487' elevation, Men's Locker Room
- o Kit 3D - Radwaste Building, 487' elevation, Women's Locker Room

Quarterly (and after use):

- o Inventory contents
- o Verify expiration dates on chemicals will not be exceeded prior to next quarterly check
- o Check physical condition of cabinet contents and replace items as necessary
- o Insert changes in procedure book and update all forms

Attachment A-2
Page 2 of 2

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ITEMS IN/NEAR

WNP-2 FIRST AID KIT - TYPE A

<u>ITEM</u>	<u>QUANTITY</u>
Multi-tramma Dressings.	4
Adhesive Bandages	32
Compresses (4")	10
Eye Pads	6
Extraction Scissor	1
Tweezer	1
Triangular Bandages	10
Antiseptic Pad - Alcohol	10
Penlight	1
Adhesive Tape	2
Kling Dressing	6
Surglpads	4
Burnsheets	2
Disposable Blankets	2
Instant Glucose (Tube)	1
Eye Irrigation Solution	1
Normal Saline (500cc)	1
Disposable Splints (assorted)	4
Surgical Gloves	2 Pair
4" x 4" (Bulk)	1 Pkg.
Disposable Ice Packs	4
Paper, Pad	1
Ball-Point Pen	2
Cervical Collar	1

Attachment A-3
Page 1 of 2

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INSTRUCTIONS

WNP-2 FIRST AID KIT - TYPE A

Locations:

- o Kit 1FA - First Aid Room Service Building, 441' elevation
- o Kit 2FA - Health Physics Offices Radwaste Building, 487' elevation

Quarterly (and after use):

- o Inventory contents
- o Check physical condition of contents and replace items as necessary
- o Perform operational check on penlight
- o Verify expiration date of solutions will not be exceeded prior to next quarterly check

Attachment A-3
Page 2 of 2

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ITEMS IN/NEAR

WNP-2 FIRST AID KIT - TYPE B (TRAUMA KIT)

<u>ITEM</u>	<u>QUANTITY</u>
Extraction Scissor	2
Penlight	2
Trauma Dressing	4
Surgical Gloves	5 Pair
Adhesive Tape	2 Rolls
Kling Bandage	8
Triangular Bandage	12
Cold Packs	2
4" x 4" Bandage	5
Stretcher	1
Wool Blankets	2
Oxygen Bottle	
(with kit)	1
Gauze, 4.5" x 147"	2.

Attachment A-4
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-15 of 91

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INSTRUCTIONS

WNP-2 FIRST AID KIT - TYPE B, TRAUMA

Locations:

- o Kit 1FB - Service Building, 441' elevation, Operations Support Center (OSC)
- o Kit 2FB - 441' elevation, Radwaste/Reactor Building Corridor Junction
- o Kit 3FB - 471' elevation, Radwaste/Turbine Generator Building Corridor
- o Kit 4FB - 501' elevation, Radwaste/Turbine Generator Building Corridor at Control Room Door
- o Kit 5FB - 487' elevation, Radwaste Building Outside Chemistry Laboratory

Quarterly (and after use):

- o Inventory contents
- o Check physical condition of contents and replace items as necessary
- o Verify oxygen bottle is full
- o Perform operational check on penlights

Attachment A-4
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-16 of 91

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ITEMS IN/NEAR

WNP-2 EMERGENCY PROTECTIVE EQUIPMENT KIT (TSC)

<u>ITEM</u>	<u>QUANTITY</u>
Protective Clothing	25 Sets
- Coveralls	
- Hoods/caps	
- Plastic Booties	
- Rubber Boots	
- Rubber Gloves	
- Glove Liners	
Respirators (particulate)	25
Combination Filters (respirator)	50
Pocket Dosimeters	25
Dosimeter Charger	1
Dose Rate Instruments	2
Potassium Iodine Tablets	25 Sets
Duct Tape	1 roll
Masking Tape	1 roll

Attachment A-5
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-17 of 91

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ITEMS IN/NEAR

DECON STORAGE TRAILER

<u>ITEM</u>	<u>QUANTITY</u>
Portable radio (with spare battery)	1
Stanchions	20
Rad. Rope	2 spools
Rad. signs w/asst. inserts	20
Paper coveralls	4 cases
Protective clothing	20 sets
Rubber boots	10 pair
Respirators, full-face	20
Rain suits	25
Plastic booties (yellow)	1 case
Totes (shoe covers)	100 pair
Rubber gloves	100 pair
Cotton glove liners	200 pair
Surgical gloves	5 boxes
Duct tape	20 rolls
Check source	1
Count Rate Meter (w/G-M Pancake Probe)	3
Extra Probes/cables	3
Dose Rate Meter (Ion Chamber)	2
Liquid soap	1 case
Grannular hand soap	5 lbs
Cotton applicators	1 box
Envelopes (3" x 5)	1 box
Surgical scrub brushes	20
Smears	2 boxes
Plastic bags (50 gal., yellow)	2 rolls
Plastic bags (12" x 24", yellow)	1 roll
Potassium Iodide (KI)	3 bottles
Sodium Bisulfate capsules	100
Potassium Permanganate capsules	100
Sponges	50
Buckets	6
Toweling	2 cases
Blankets	24
Collapsible water containers (1 gal)	5
Dosimeter Charger (with spare battery)	1
Vacuum Cleaners (12 volt)	3
Generator (Gasoline)	1
Fire Extinguisher	1

Attachment B-14

Page 1 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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PLANT EXCLUSIVE USE SIGNALS

Location: Control Room

The following demonstrations should be immediately preceded at least by voice announcement over the public address system.

Demonstrations should be conducted on all shifts on the first Monday of each month, at approximate times as follows:

Day Shift - 1300
Swing Shift - 1700
Mid Shift - 0200

The following public address format should be adhered to:

A. Alerting Tone:

- o "This is a demonstration of the ALERTING TONE. This is a demonstration of the ALERTING TONE."
- o Sound the ALERTING TONE (pulsed tone-constant level) for 5-10 seconds.
- o "This concludes the demonstration of the ALERTING TONE."

B. Immediate Evacuation Alarm:

- o "This is a demonstration of the Immediate Evacuation Alarm for the protected area. This is a demonstration of the IMMEDIATE EVACUATION ALARM for the protected area. This is only a demonstration, DO NOT RESPOND! DO NOT RESPOND!"
- o Sound the protected area IMMEDIATE EVACUATION ALARM (wailing siren) for 5-10 seconds.
- o "This concludes the demonstration of the protected area IMMEDIATE EVACUATION ALARM."
- o "This concludes all signal demonstrations, regard all further signals as real."

Monthly:

Perform operational check.

Attachment A-6
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-19 of 91

1944

1944



1944

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EMERGENCY OPERATIONS FACILITY/HEADQUARTERS

EMERGENCY EQUIPMENT

- B-1 Field Sampling Kit
- B-2 Protective Clothing Kit
- B-3 Air Sampling Kit
- B-4 Instrumentation Kit
- B-5 Multichannel Analyzer Kit
- B-6 Emergency Assistance Kit
- B-7 Decon Cabinet
- B-8 Extra Protective Clothing
- B-9 Field Lab Supplies
- B-10 Portable Generator Set
- B-11 River Evacuation Monitoring Kit
- B-12 River Evacuation Decontamination Kit
- B-13 Aerial Monitoring Kit
- B-14 Decon Storage Trailer
- B-15 Equipment for PASS

Attachment Section B
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-20 of 91

1944



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ITEMS IN/NEAR

FIELD SAMPLING KIT

<u>ITEM</u>	<u>QUANTITY</u>
Case for Equipment	1
Plastic Bags (assorted)	60
Cubitainers (1 gallon)	15
Rubber Gloves	4 Pair
Digging Tools (small)	3
Felt Tip Marker (perm).	4
Note Pads (3x5)	3
Pens (black)	3
Masking Tape (2")	1 Roll
Cutting Shears	1
Rubber Bands	1 Box
Paper Towels	1 Pkg.
Disposable Gloves	2 Boxes
Smears and Holders	100
Radiation Signs	3
Barricade Tape	1 Roll
Pocket Knife	1
Syphon Pump	1

Attachment B-1
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS

FIELD SAMPLING KIT

Locations:

- o Kit 1FS - Field Team Cabinet Number 1
- o Kit 2FS - Field Team Cabinet Number 2
- o Kit 3FS - Field Team Cabinet Number 3
- o Kit 4FS - Field Team Cabinet Number 4
- o Kit 5FS - Headquarters

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary

Attachment B-1
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-22 of 91

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ITEMS IN/NEAR

PROTECTIVE CLOTHING KIT

<u>ITEM</u>	<u>QUANTITY</u>
Case for Equipment	1
Hoods	3
Paper Coveralls	3
Rubber Gloves	3 Pair
Rubber Boots	3 Pair
Masking Tape (2")	2 Rolls
Full-Face Respirators with Cartridges	3
Rain Suits	3
Razor and Shaving Cream	1 Set
Plastic Bags	Assorted

Attachment B-2
Page 1 of 2

PROCEDURE NUMBER 13.14.4	REVISION NUMBER 5	PAGE NUMBER 13.14.4-23 of 91
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INSTRUCTIONS

PROTECTIVE CLOTHING KIT

Locations:

- o Kit 1PC - Field Team Cabinet Number 1
- o Kit 2PC - Field Team Cabinet Number 2
- o Kit 3PC - Field Team Cabinet Number 3
- o Kit 4PC - Field Team Cabinet Number 4
- o Kit 5PC - Headquarters

Monthly:

- o Check condition of respirators

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary

Attachment B-2
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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ITEMS IN/NEAR

AIR SAMPLING KIT

<u>ITEM</u>	<u>QUANTITY</u>
Case for Equipment	1
Portable Air Sampler	1
Paper Filters	100
Note Pads (3x5)	3
Pens (Black)	3
Charcoal Cartridges	6
Tweezer	1
Silver Zeolite Cartridges	6
H809C Manual	1
Spare Fuse	1
Stopwatch	1
Alligator Forceps	1

Attachment B-3
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS

AIR SAMPLING KIT

Locations:

- o Kit 1AS - Field Team Cabinet Number 1
- o Kit 2AS - Field Team Cabinet Number 2
- o Kit 3AS - Field Team Cabinet Number 3
- o Kit 4AS - Field Team Cabinet Number 4
- o Kit 5AS - Headquarters

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify air sampler calibration date will not be exceeded prior to the next quarterly check
- o Start-up air sampler
- o Perform operational check of stopwatch.

Attachment B-3
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-26 of 91

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ITEMS IN/NEAR

<u>ITEM</u>	<u>INSTRUMENTATION KIT</u>	<u>QUANTITY</u>
Case for Equipment		1
Dose Rate Meter (MicroR)		1
Dose Rate Meter (Ion Chamber)		1
Count Rate Meter		
(w/G-M Pancake Probe)		1
Pocket Dosimeter (0-5' R)		3
(0-500mR)		3
Dosimeter Charger		1
TLD Badges		2
Portable Radio		2
AC Radio Charger		1
Dessicant		1
D-Cell Batteries		8
Calculator		1
Calculator Charger		1
9-Volt Batteries		2
Note Pads (3x5)		3
Pens (black)		3
Check Source Cs-137		1
8 1/2 x 11 Tablet (In Cabinet)		1
Phone Numbers		1
Microphone		1
Iodine Tablets		3 sets
Battery (6-volt)		1
Phillips Screwdriver		1
Compass		1
Battery Lantern (6-volt)		1
Flashlight		1
First Aid Kit (In Cabinet)		1
Change		\$5.00
Clipboard (In Cabinet)		1
Set Field Team Maps (In Cabinet)		1
- State Highway Map		
- 50 mi Zone Map		
- 10 mi Zone Map-large		
- 10 mi Zone Map-small		
- 10 mi Zone Map Booklet		
- TriCities Map		
- Coordinate Square		
Trojan Maps		1 Set
Trojan Implementing Procedures (In Cabinet)		1 Set
WA/OR Road Map		1
ID/MT Road Map		1
Credit Cards		3
(Shell, Chevron, Mobil)		1 Each

Attachment B-4
Page 1 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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ITEMS IN/NEAR

INSTRUMENTATION KIT (Continued)

<u>ITEM</u>	<u>QUANTITY</u>
Set of Field Team Worksheets	1
- Checklist for Equipment Test	2
- Exposure Rate Measurement Worksheet	20
- Contamination Survey Worksheet	10
- Environmental Sample Identification Form	20
- Air Sampling Worksheet	20
- Aerial Radiological Survey Data Sheet	5
- After Action Report	5
Field Team Procedures	1 Set

-RPI 12.53 "Personnel Contamination Survey"

-EPIP 13.9.1 "Environmental Field Team Operations"

-EPIP 13.9.2 "Field Exposure Rate Surveys"

-EPIP 13.9.3 "Portable Air Sampling"

-EPIP 13.9.4 "TLD and Fixed Air Sample Retrieval"

-EPIP 13.9.5 "Environmental Sample Collection"

-EPIP 13.9.6 "Field Analysis of Environmental Samples"

-EPIP 13.9.7 "Aerial Monitoring"

-EPIP 13.13.4 "Post Incident Reporting"

-EPIP 13.14.4 "Emergency Equipment" Excerpt, Attachment B
"Emergency Operations Facility Emergency Equipment"

Attachment B-4
Page 2 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS INSTRUMENTATION KIT

Locations:

- o Kit 1IK - Field Team Cabinet Number 1
- o Kit 2IK - Field Team Cabinet Number 2
- o Kit 3IK - Field Team Cabinet Number 3
- o Kit 4IK - Field Team Cabinet Number 4
- o Kit 5IK - Headquarters

Monthly:

- o Verify that blank sign-in and sign-out forms (similar to Attachments H and I) and a copy of EPIP 13.14.4 "Emergency Equipment" are available on the inside of the Emergency Cabinet door.
- o Replace batteries in radios (obtain replacement batteries from Communication Services)

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify portable instrument calibration dates will not be exceeded prior to the next quarterly check:
- o Perform operational checks:
 - o Pocket dosimeters (rezero)
 - o Portable instruments (battery check)
 - o Dosimeter charger
 - o Radios
 - o Calculator
 - o Battery lantern
 - o Flashlight
- o Verify expiration dates will not be exceeded prior to the next quarterly check:
 - o Credit cards
 - o Iodine tablets
- o Verify that all procedures are the current revision and have not been written on.

Attachment B-4
Page 3 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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ITEMS IN/NEAR

MULTICHANNEL ANALYZER KIT

<u>ITEM</u>	<u>QUANTITY</u>
Case for Equipment	1
Multichannel Analyzer	1
NaI Detector	1
Lead Shield Holder and Trays	1
Check Source Ba-133	1
Check Source Cs-137	1
Note Pads (3x5)	3
Pens (black)	3
MCA Data Sheet	1
Davidson Model 1056B Instruction Manual	1
Abridged Radiological Health Handbook	1

Attachment B-5
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-30 of 91

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INSTRUCTIONS

MULTICHANNEL ANALYZER KIT

Locations:

- o Kit 1MA - Field Team Cabinet Number 1
- o Kit 2MA - Field Team Cabinet Number 2

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify multi-channel analyzer calibration date will not be exceeded prior to next quarterly check
- o Perform operational check on multi-channel analyzer

Attachment B-5
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-31 of 91

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ITEMS IN/NEAR

EMERGENCY ASSISTANCE KIT

<u>ITEM</u>	<u>QUANTITY</u>
Case for Equipment	1
Dose Rate Meter (Ion Chamber)	1
Count Rate Meter (w/Alpha Probe)	1
Count Rate Meter (w/G-M Pancake Probe)	1
D Cell Batteries	4
Note Pads	3
Pens	3
Portable Radio	1
DC Radio Charger	1
Antenna	1
Microphone	1
Tape Recorder	1
60-Minute Tapes	3
Battery (9-Volt)	4
EPIP 13.14.4 - Emergency Equipment (located inside of cabinet door)	
SSI 2.2 - Emergency Response	

Attachment B-6
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-32 of 91

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INSTRUCTIONS

EMERGENCY ASSISTANCE KIT

Location:

- o Kit 1 ea - Emergency Cabinet Number 9

Monthly:

- o Replace batteries in radio (obtain replacement batteries from Communications Service)
- o Check physical condition of contents and replace as necessary
- o Verify that blank sign-in and sign-out forms (similar to Attachment H and I) and a copy of EPIP 13.14.4 "Emergency Equipment" are available in the inside of the emergency cabinet door.

Quarterly (or if seal not intact):

- o Inventory contents
- o Verify instrument calibration dates will not be exceeded prior to the next quarterly check.
- o Perform operational checks
 - o Portable instruments (battery check)
 - o Radio
 - o Tape recorder
- o Verify that all procedures are the current revision.

Attachment B-6
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-33 of 91

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ITEMS IN/NEAR DECON CABINET

ITEM	QUANTITY
Decon Record Forms	20
Clip board	1
Decon Procedures	
- EPIP 13.7.4 "Personnel Decontamination Operations at the Emergency Operations Facility"	
- EPIP 13.7.5 "Decontamination Operations at Remote Decontamination Locations"	
- EPIP 13.7.7 "Emergency Operations Facility First Aid Center Operations"	
- EPIP 13.14.4 "Emergency Equipment" Excerpt, Attachment B "Emergency Operations Facility Emergency Equipment" (Located on Clipboard)	
Red markers	3
Black markers	5
Black ink pens	3
3" x 5" notepads	3
Smears	1,000
Masking tape	1
Cotton tip applicators	2,000
Yellow magenta tape	1
Tongue depressants	20
Bottles Pax-land soap	2
Scrubbing sponges	2
Lava soap	1
Ivory soap	2
Soft scrub brushes	2
Moist towelettes	200
4" x 4" gauze sponges	200
3" x 3" gauze sponges	300
Scissors	1
Paper towels	500
Blank signs	5
Paper coveralls	6
Rubber gloves	6 pr
Plastic booties	20 pr
Count Rate Meter (w/Alpha Probe)	1
Count Rate Meter (w/G-M Pancake Probe)	1
Yellow plastic bags	20
Clear plastic bags	20
Extra soap	2 boxes
Sodium Bisulfate	2 bottles
Potassium Permanganate	2 bottles
Sodium Bisulfite	2 bottles
Facial Tissue	1 boxes
Colloidion	1 bottle
Small Paper Cups	1 box
Saline Solution	1 bottle

Attachment B-7
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-34 of 91

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INSTRUCTIONS

DECON CABINET

Location:

- o DC - Emergency Cabinet Number 14

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify calibration/expiration dates will not be exceeded prior to next quarterly check:
 - o Portable instrument
 - o Chemicals
- o Perform operational check on portable instruments (battery check)

Attachment B-7
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-35 of 91

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ITEMS IN/NEAR

EXTRA PROTECTIVE CLOTHING

<u>ITEM</u>	<u>QUANTITY</u>
Box for Equipment	1
Paper Coveralls	25
Plastic Shoe Covers	20 Pairs
Disposable Gloves	1 Box
Rubber Gloves	5 Pair
Hoods	12
Masking Tape	5 Rolls
Rubber Boots	2 Pair

Attachment B-8
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-36 of 91

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INSTRUCTIONS

EXTRA PROTECTIVE CLOTHING

Location:

- o Kit 1XP - Emergency Cabinet Number 6
- o Kit 2XP - Emergency Cabinet Number 6

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary

Attachment B-8
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-37 of 91

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ITEMS IN/NEAR

FIELD LAB SUPPLIES

<u>ITEM</u>	<u>QUANTITY</u>
100 ft Extension Cord	1
Air Sample Cart. Purger	1
Radio Charger and Antenna	1
Air Bottle (nearly full)	1

Attachment B-9
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-38 of 91

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INSTRUCTIONS

FIELD LAB SUPPLIES

Locations:

- o Kit 1FL - Field Team Cabinet Number 6
- o Kit 2FL - Field Team Cabinet Number 6

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify air bottle is nearly full
- o Perform operational check on air sample cartridge purge manifold.

Attachment B-9
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-39 of 91

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ITEMS IN/NEAR

PORTABLE GENERATOR SET

<u>ITEM</u>	<u>QUANTITY</u>
Honda Generator	1
Gas Can	1
Siphon	1
Spare Fuses:	
8 amp	1
15 amp	1
Tool Kit	1
Manual	1

Attachment B-10
Page 1 of 2

PROCEDURE NUMBER 13.14.4	REVISION NUMBER 5	PAGE NUMBER 13.14.4-40 of 91
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INSTRUCTIONS

PORTABLE GENERATOR SET

Locations:

- o Kit 1PG - Emergency Cabinet Number 7
- o Kit 2PG - Emergency Cabinet Number 7

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Start-up Honda generator.

Attachment B-10
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-41 of 91

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1954

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ITEMS IN/NEAR RIVER EVACUATION MONITORING KIT

<u>ITEM</u>	<u>QUANTITY</u>
TLD	3
Dosimeter Charger	1
Pocket Dosimeter:	
0-5 R	3
0-500 mR	3
0-50R Dose Rate	1
Meter RO-2A	
Micro R meter	1
Respirators	3
KI Tablets	1 bottle
Coveralls, paper	3 pairs
Hoods	3
Shoe covers	3 pairs
Rubber gloves	3 pairs
Surgical gloves	1 box
Rain suits	3
Tape, masking	1 roll
Pens	5
Check Source	1
Portable Radio	1
Writing Tablet	1
Personnel Exposure Record	1 package
Procedures	1 each
-EPIP 13.5.4	
-EPIP 13.9.1	
-EPIP 13.9.2	
-EPIP 13.9.8	

Attachment B-11
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS

RIVER EVACUATION MONITORING KIT

Locations:

- o Kit 1RM/3RM - Emergency Cabinet Number 9
- o Kit 2RM/4RM - Headquarters MPF, 1st Floor, Room 201

Monthly:

- o Replace batteries in radio (obtain replacement batteries from Communication Services)
- o Verify that blank sign-in and sign-out forms (similar to Attachment H and I) and a copy of EPIP 13.14.4 "Emergency Equipment" are available on the inside of the cabinet door.
- o Verify that vehicle keys are in the cabinet, Headquarters, MPF, Room 201
- o Perform respirator check per RPI 8.3

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify calibration/expiration dates will not be exceeded prior to next quarterly check.
- o Perform operational checks:
 - o Portable instrument (battery check)
 - o Radio
- o Verify all procedures and forms are the current revision and have not been written on.

Attachment B-11
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-43 of 91

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ITEMS IN/NEAR

RIVER EVACUATION DECONTAMINATION KIT

<u>ITEM</u>	<u>QUANTITY</u>
TLD	3
Dosimeter Charger	1
Pocket Dosimeter:	
0-5 R	3
0-500 mR	3
Bucket	1
Sponges	5
Soap	2 bottles
Toweling, disposable	10
Ribbon, Rad. Barrier	2 rolls
Signs, Rad. Warning w/inserts	4
Coveralls, paper	5 pairs
Hoods	5
Shoe covers	5 pairs
Rubber gloves	10 pairs
Surgical gloves	1 box
Rain suits	3
Tape	1 roll
Plastic bags (50 gal. yellow)	2
Count Rate Meter	
(w/G-M Pancake Probe)	1
Alpha Detector	1
Check Source	1
Portable Radio	1
KI Tablets	1 bottle
Survey Map and Record Form	1 package
Personnel Contamination Form	1 package
Pens	5
Procedures	1 each
-EPIP 13.5.4	
-EPIP 13.7.5	
-EPIP 13.9.1	
-EPIP 13.9.2	
-EPIP 13.9.8	
-RPI 12.34	
-RPI 12.53	

Attachment B-12
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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1947



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INSTRUCTIONS

RIVER EVACUATION DECONTAMINATION KIT

Locations:

- o Kit 1RM/3RM - Emergency Cabinet Number 9
- o Kit 2RM/4RM - Headquarters MPF, 1st Floor, Room 201

Monthly:

- o Replace batteries in radio (obtain replacement batteries from Communication Services)

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify calibration/expiration dates will not be exceeded prior to next quarterly check.
- o Perform operational checks:
 - o Portable instrument (battery check)
 - o Radio
- o Verify all procedures and forms are the current revision and have not been written on.

Attachment B-12
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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ITEMS IN/NEAR AERIAL MONITORING KIT

<u>ITEM</u>	<u>QUANTITY</u>
TLD	3
Dosimeter Charger	1
Pocket Dosimeter:	
0-5 R	3
0-500 mR	3
0-50R Dose Rate	1
Meter RO-2A	
Micro R meter	1
Portable radio	1
Writing Tablet	1
Pens	2
KI Tablets	1 bottle
Personnel Exposure Record	1 package
Field Team Maps	1 set
Procedures	1 each
-EPIP 13.9.1	
-EPIP 13.9.2	
-EPIP 13.9.7	

Attachment B-13
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PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS

AERIAL MONITORING KIT

Locations:

- o Kit 1RE - Decon Trailer
- o Kit 1AM - Emergency Cabinet Number 9
- o Kit 2AM - Headquarters MPF, 1st Floor, Room 201

Monthly:

- o Replace batteries in radio (obtain replacement batteries from Communication Services)

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify calibration/expiration dates will not be exceeded prior to next quarterly check.
- o Perform operational checks:
 - o Portable instrument (battery check)
 - o Radio
- o Verify all procedures and forms are the current revision and have not been written on.

Attachment B-13
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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ITEMS IN/NEAR

DECON STORAGE TRAILER

<u>ITEM</u>	<u>QUANTITY</u>
Portable radio (with spare battery)	1
Stanchions	20
Rad. Rope	2 spools
Rad. signs w/asst. inserts	20
Paper coveralls	4 cases
Protective clothing	20 sets
Rubber boots	10 pair
Respirators, full-face	20
Rain suits	25
Plastic booties (yellow)	1 case
Totes (shoe covers)	100 pair
Rubber gloves	100 pair
Cotton glove liners	200 pair
Surgical gloves	5 boxes
Duct tape	20 rolls
Check source	1
Count Rate Meter (w/G-M Pancake Probe)	3
Extra Probes/cables	3
Dose Rate Meter (Ion Chamber)	2
Liquid soap	1 case
Grannular hand soap	5 lbs
Cotton applicators	1 box
Envelopes (3" x 5)	1 box
Surgical scrub brushes	20
Nail brushes	20
Smears	2 boxes
Plastic bags (50 gal., yellow)	2 rolls
Plastic bags (12" x 24", yellow)	1 roll
Potassium Iodide (KI)	3 bottles
Sodium Bisulfate capsules	100
Potassium Permanganate capsules	100
Sponges	50
Buckets	6
Toweling	2 cases
Blankets	24
Collapsible water containers (1 gal)	5
Dosimeter Charger (with spare battery)	1
Vacuum Cleaners (12 volt)	3
Generator (Gasoline)	1
Fire Extinguisher	1

Attachment B-14
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PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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ITEMS IN/NEAR.

DECON STORAGE TRAILER

(Continued)

<u>ITEM</u>	<u>QUANTITY</u>
TLD's	4
Pocket Dosimeter (0-500 mR)	4
Generator Kit (with spare fuses)	1
Gasoline can	1
Syphon	1
Legal pads	1 box
Pens	2 boxes
Clipboards	5
Forms	
Survey Map and Record Forms	100
Vehicle Contamination Forms	10
Personnel Contamination Forms	100
After Action Report	5
Procedures	1 each
-EPIP 13.7.5	Decontamination Operations at Remote Decontamination Locations
-EPIP 13.7.9	Decontamination Within the Site Boundary
-EPIP 13.13.4	Post Incident Reporting
-EPIP 13.14.4	Emergency Equipment (located on the inside of trailer door)
-PPM 11.2.13.3	Personnel Contamination Survey
-PPM 11.2.13.4	Decontamination of Radiation and Contamination Survey Results
-PPM 11.2.15.2	Skin Decontamination
-PPM 11.2.15.3	Eyes, Nose, Mouth and Wound Decontamination
-PPM 11.2.15.4	Clothing Decontamination
-PPM 11.2.15.5	Area Decontamination
-PPM 11.2.15.7	Release of Material From Radiologically Controlled Areas
-PPM 11.2.15.9	Self Frisking
-RPI 12.34	Decontamination of Personnel
-RPI 12.53	Personnel Contamination Survey

Attachment B-14
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PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS

DECON STORAGE TRAILER

Monthly:

- o Replace batteries in radio (obtain replacement batteries from Communication Services)
- o Check condition of respirators

Quarterly (or if seal not intact):

- o Inventory contents
- o Check physical condition of contents and replace as necessary
- o Verify calibration/expiration dates will not be exceeded prior to next quarterly check:
 - o Portable instruments
 - o Chemicals
 - o Iodine Tablets
- o Perform operational checks:
 - o Portable instrument (battery check)
 - o Radio
 - o Dosimeter charger
 - o Portable generator (Start-up)
- o Verify all procedures and forms are the current revision and have not been written on.

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THE UNITED STATES OF AMERICA

IN SENATE, JANUARY 1, 1901

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EQUIPMENT FOR PASS

Locations:

Hoist - Crane	- (Ambulance Bay)	1
Ramp	- (Counting Room)	1
Handle for Cask	- (Counting Room)	1
Tongs	- (Chemistry Lab)	2
Syringes and Needles	- (Chemistry Lab)	4
Serum Bottles	- (Chemistry Lab)	4
PH Meter Probe	- (Chemistry Lab)	1

Quarterly:

- o Inventory contents
- o Check physical condition of contents and replace as necessary

Attachment B-15
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PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-51 of 91

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CONTENTS

HOSPITAL RADIOLOGICAL EMERGENCY KIT

<u>ITEM</u>	<u>QUANTITY</u>
Action Cards	1 set of 4
Body Outline Sketches	5
Clipboard	1
Marking Pens	2
Masking Tape (2")	2 Rolls
Paper Floor Covering	Assorted
Paper Pads (Note Pads)	2
Pencils and/or Pens	6
Plastic (cover Air Inlets and equipment)	Assorted
Procedures	4 copies
Radiation Control Signs	5
Radiation Rope	Assorted
Radiation Tags	5
Radiation Tape	1 Roll
Scissor	1
Smears and Envelopes	25
Count Rate Meter (w/G-M Pancake Probe)	1
TLD's	6 and 1 Control
Decontamination Kit	1 Set
-Bulb Syringe	
-Ivory Soap	
-Hand Brush	
-Lava Soap	
-Potassium Permanganate	
Protective Clothing	6 Sets
-Coveralls	
-Hood	
-Shoe Covers	
-Surgeon Gloves & Masks	
-Plastic Bags	8

Attachment C
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PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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INSTRUCTIONS

HOSPITAL RADIOLOGICAL EMERGENCY KIT

Locations:

- o Kit 1HK - Kadlec Hospital
Emergency Room Storage Cabinet
- o Kit 2HK - Kennewick Hospital
Emergency Room Storage Closet
- o Kit 3HK - Our Lady of Lourdes Hospital Decon Shower Room
- o Kit 4HK - Yakima Valley Memorial Hospital Autopsy Room

Quarterly (and after use):

- o Inventory contents
- o Check physical condition of contents and replace items as needed.
- o Verify revision number of procedures and update all forms
- o Verify portable instrument calibration and TLD dates will not be exceeded prior to quarterly check.

Attachment C
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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EMERGENCY PLANNER COMMUNICATIONS SYSTEM TEST

Monthly:

- o Perform test (by two-way communication) of the following dedicated telephone lines:
 - o State of Washington Emergency Operations Center (Olympia)
 - o DOE
 - o County
 - o Nuclear Regulatory Commission Headquarters (phone located in the Control Room, TSC, EOF, NRC Room and MUDAC).

Annually:

- o Verify accuracy of Emergency Telephone Directory. Revise and reissue as needed.

Attachment D
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1. 14

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COMMUNICATIONS SYSTEM TESTS

A. Facsimile Network

Locations:

- o WNP-2 Control Room
- o WNP-2 Technical Support System
- o Emergency Operations Facility (EOF) Communications Center
- o EOF, Technical Data Center
- o Joint Information Center, (Supply System Multi-Purpose Facility)
- o Headquarters Communication Center, (Supply System Multi-Purpose Facility)
- o State of Washington Emergency Operations Center (Olympia)
- o County Emergency Operations Center, (Kennewick)
- o Department of Energy-Richland (DOE-RL)

Monthly:

- o Perform operational check of the facsimile transmission network by two-way transmission:

B. Siren System

Monthly:

- o Document performance of siren system status tests.

Quarterly:

- o Perform siren system growl test.

Annually

- o Perform full operational test of siren system.

Attachment E
Page 1 of 3

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COMMUNICATIONS SYSTEM TESTS (Continued)

C. Dedicated Telephone Systems

Monthly:

- o Test all lines of the following:
 - o Emergency Response Crash System
 - o Emergency Response Dial-up System
 - o Emergency Response Ring-down System

Quarterly:

- o Test all lines of the following:
 - o Emergency Response Public Information Officer Network

D. Data Circuits

Monthly:

- o Check status of data circuits between Supply System facilities.

E. EOF Public Address System

Monthly:

- o Perform operational check

F. Field Team Radios

Annually:

- o Check per FCC requirements

G. Plant Emergency Team Equipment

Quarterly:

- o Check portable (orange) telephones for operability (OSC)
- o Check "Loudmouth" transmitters for operability (OSC)
- o Check SCBA skullbone transmitters for operability (vic Plant Emergency Team Cabinets)

Attachment E
Page 2 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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COMMUNICATIONS SYSTEM TESTS (Continued)

H. Communication Consoles

Locations:

- o 1CC - EOF Communications Center
- o 2CC - WNP-2 Central Alarm Station
- o 3CC - WNP-2 Secondary Alarm Station
- o 4CC - Headquarters Communications Center

Monthly:

- o Perform operational check (by two-way transmission) on all channels

I. Pagers

Quarterly:

- o Perform quarterly activation test.

J. Auto Dialer

Quarterly:

- o Perform quarterly activation test.

Attachment E
Page 3 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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EMERGENCY OPERATIONS FACILITY MEDICAL EQUIPMENT AND SUPPLIES

INSTRUCTIONS

EOF FIRST AID ROOM

Quarterly (and after major use):

- o Verify oxygen bottle full
- o Check oxygen regulator
- o Inventory contents
- o Check physical condition of contents and replace items as necessary
- o Verify expiration/calibration dates of equipment/supplies will not be exceeded prior to next quarterly audit
- o Perform operational checks
 - o Pen light

Attachment F
Page 1 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
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CONTENTS

EOF FIRST AID ROOM

<u>ITEM</u>	<u>QUANTITY</u>
Kling Bandages (Assorted)	3 boxes, 12 each
Telfa Pads (Sterile)(Assorted)	48
Coban Wrap Bandages (Assorted)	36
Knuckle Dressing	12
Band-aids (Assorted)	24
ABD Dressings (Trauma)	12
Triangular Bandages	24
Tape, Paper (Adhesive)(Assorted)	6
Eye Pads (Dressings)	12
Pads (Bulk)(Assorted)	4 packages
Scrub Brush (Soft)	6
Cotton Applicators	1 box
Alcohol Wipes	2 boxes
Burn Sheets (Sterile)	4
Surgical Gloves	24 pair
Antiseptic Scrub	1 pint
Bacitracin	4 tubes
Instant Glucose	6 tubes
Oxygen and Oxygen Equipment:	
Portable "D" Bottle with Regulator	1
Face Masks	6
Eye Irrigation Dacriose Solution	6
Pen Light and Spare Batteries	4
Bandage Scissors (5-1/2")	1
Stretcher (Gurney) with Casters	1
Pad (Stretcher)(3" Foam)	1
Blood Pressure Cuff	1
Stethoscope	1
Extraction Scissors	1

Attachment F
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CONTENTS

EOF FIRST AID ROOM (Continued)

<u>ITEM</u>	<u>QUANTITY</u>
Waste Recepticle (Foot-Operated Lid)	1
Blankets (Wool)	8
Sheets	8
Pillows	4
Pillow Cases	8
Clam Shell Stretcher	1
Splints (Cardboard)(Assorted)	2 sets
Splint, Air, Assorted	6
Disaster Tags	50
Patient Treatment Record Forms	100
Black Board	1
Locked Cabinet Supplies:	
Ring Cutter	1
Tweezers (small and medium)	1 each
Splinter Forceps	1
Bulb Syringe	1

NOTE: These supplies are to be used only by qualified personnel.

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EMERGENCY CENTER

EQUIPMENT AND SUPPLIES

- G-1 Instructions Emergency Centers
- G-2 Control Room Inventory List
- G-3 Technical Support Center Inventory List
- G-4 Operations Support Center Inventory List
- G-5 Supply System Decision Center Inventory List
- G-6 Security Decision Center Inventory List
- G-7 EOF Communications Center Inventory List
- G-8 HQ Communications Center Inventory List
- G-9 Offsite Agency Coordination Center Inventory List
- G-10 Technical Data Center Inventory List
- G-11 MUDAC Inventory List
- G-12 Media Briefing Preparation Area Inventory List
- G-13 EOF Records Room Inventory List
- G-14 NRC Work Area Inventory List
- G-15 Crisis Management Center Inventory List
- G-16 Joint Information Center Inventory List

Attachment Section G
Page 1 of 1

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INSTRUCTIONS

EMERGENCY CENTERS

Quarterly:

- o Inventory
- o Check physical conditions of center contents
- o Verify all procedures/documents are the current revision and have not been written on.
- o Verify potassium iodide (if present) will not exceed expiration date prior to next quarterly check.
- o Perform operational checks on center contents as appropriate to insure all listed equipment is functional.
- o Arrange replacement of missing items as necessary.

Attachment G-1
Page 1 of 1

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CONTROL ROOM

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity Desirable</u>	<u>On-Hand</u>
GDS Terminal	1		
TRS-80, Model 100	1		
Cassette Deck	1		
Emergency Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	3		
NEFAX Manual		1	
NEFAX Paper (Spare)		1 Roll	
FNF Notification Forms	1 Pkg		
After Action Report Forms		1 Pkg	
Potassium Iodide	7 Bottles		
Facsimile	1		

Attachment G-2
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TECHNICAL SUPPORT CENTER INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity Desirable</u>	<u>On-Hand</u>
GDS Terminal	2		
Printer/Plotter Device	1		
Standard CRT Display Terminal	1		
TRS-80, Model 100	1		
Schematic Printer		1	
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	3		
WNP-2 Shielding Evaluation Report	1		
General Arrangement Plans/Flow Diagrams	1 Set		
Master Equipment List	1		
WNP-2 Technical Specifications	1		
WNP-2 Plant Operating Procedures (All)	1		
WNP-2 Final Safety Analysis Report	1		
As-Built Drawings	1 Set		
Microfiche Reader	1		
Aperture Card Reader/Printer	1		
WNP-2 Emergency Operating Procedures (Vol: 5)	1		
WNP-2 Operations Records (available in Service Building)	1 Set		
Plant Operations (Safety) Committee Records and Reports (available in Service Building)	1 Set		
EDPS User's Manual	1		
NEFAX Operator's Manual		1	
NEFAX Paper (Spare)		1 Roll	
Overhead Projector Bulb (Spare)		1	
FNF Notification Forms	1 Pkg		
After Action Report Forms		1 Pkg	
Portable Emergency Lights	8 Sets		
Duplicating Machine (available nearby)		1	
Duplicating Paper		2 Boxes	

Attachment G-3
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TECHNICAL SUPPORT CENTER

INVENTORY LIST

(Continued)

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
Significant Event Log Transparencies		200	
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Ten-Mile Emergency Planning Zone Map		1	
Fifty-Mile Emergency Planning Zone Map		1	
Plant Status Board		1	
Protective Action Recommendation Flow Charts		1 Set	
WNP-2 Emergency Procedure Poster		1	
Clock (24 hour display)		1	
Overhead Projector		1	
Projection Screen		1	
Cassette Recorder		1	
Potassium Iodide		1 Bottle	
Set of Operation and Maintenance Manual		1 Set	
ASME Section III		1	
Regulatory Guides		1 Set	
10 CFR		1	
Set of Systems and Procedures Training Manuals		1 Set	
Environmental Equipment Qualification Report (SR)		1	
Document Control System List (DCS)		1	
Fuse List		1	
CDCS		1	
SITS/FITS		1	
Complete Set of Diazo Cards (AE/CVI)		1 Set	
Set of ALARA Diazo Cards		1 Set	
Top Tier List		1	
Set of A.E. Top Tier Drawings		1 Set	
Set of G.E. Top Tier Drawings		1 Set	
Set of G.E. Most Wanted Drawings		1 Set	
Ensure HVAC System is fully Operational			

Attachment G-3

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OPERATIONS SUPPORT CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	3		
WNP-2 Shielding Evaluation Report	1		
General Arrangement Plans/Flow Diagrams		1 Set	
Master Equipment List	1		
OSC Activation Cards	1 Set		
Plant Status Maps		1 Set	
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Plant Status Board		1	
OSC Team Location Status Board	1		
Plant Hazardous Areas Status Board			
WNP-2 Emergency Procedure Poster			
Clock (24 hour display)		1	
Overhead Projector		1	
Projection Screen		1	
Overhead Projector Bulb (Spare)		1	
15 Minute Time Clock		1	
After Action Report Forms		1 Pkg	
Significant Event Log Transparencies		200	
Radio	1		
HP List of Respiratory Equipment Work Restrictions		1 Set	
Complete Set of EWD Drawings		1 Set	
Set of A.E. Top Tier Drawings		1 Set	
Battery - Powered Razor		1	

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ALTERNATE LOCATION-OPERATIONS SUPPORT CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Plant Status Board		1	
OSC Team Location Status Board		1	
Plant Hazardous Area Status Board		1	
WNP-2 Emergency Procedure Poster		1	
Clock (24 hour display)		1	
Plant Hazardous Area Status Board		1	

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SUPPLY SYSTEM DECISION CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	2		
INPO Emergency Resources Directory		1	
NRC Telephone Directory		1	
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Ten-Mile Emergency Planning Zone Board		1	
Significant Events Status Board		1	
Plant Status Board		1	
Protective Action Recommendation Flow Charts		1 Set	
Owner Controlled Area Emergency Procedure Chart		1	
Evacuation Route, Barricade, and Assistance Center Map		1	
Whiteboard		1	
WNP-2 Cutaway Poster		1	
Easel (Butcher Paper)		1	
Offsite Agency Representative Manning Chart		1	
Clock (24 hour display)		1	
Individual Position Signs		16	
Cork Board		2	
Clipboard		3	
In/out Baskets		1 Set	
FNF Notification Forms	1 Pkg		
After Action Report Forms		1 Pkg	

Attachment G-5
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SECURITY DECISION CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	2		
Benton/Franklin County Emergency Plan		1	
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Ten-Mile Emergency Planning Zone Board		1	
Fifty-Mile Emergency Planning Zone Map		1	
Significant Events Status Board		1	
Evacuation Route, Barricade, and Assistance Center Map		1	
Whiteboard		1	
Clock (24 hour display)		1	
Cork Board		2	
Clipboard		3	
In/Out Baskets		1 Set	
After Action Report Forms		1 pkg.	

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EOF COMMUNICATIONS CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
Emergency Plan Implementing Procedures	1		
Emergency Organization Telephone Directory	2		
Staff Manning Chart		1	
Cork Board		1	
Fire Alarm Location Map		1	
FCC License Display		1	
Map of EOF/PSF		1	
Clipboard		3	
In/Out Baskets		1 Set	
Message Board (outside center)		1	
NAWAS Warning Point Information Sheet		1	
Duplicating Machine (outside center)		1	
Duplicating Paper		2 Boxes	
NEFAX Paper (Spare)		1 Roll	
FNF Notification Forms	1 Pkg		
After Action Report Forms		1 Pkg	
Communication's Runner's Folders		1 Set	

Attachment G-7
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HEADQUARTERS COMMUNICATIONS CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
Staff Manning Chart		1	
Cork Board		1	
FCC License Display		1	
Clipboard		1	
In/Out Basket		1	
NAWAS Warning Point Information Sheet		1	
Nefax Paper (Spare)		1	
FNF Notification Forms		1 Pkg	
After Action Report Forms		1 Pkg	
Map of Multi-Purpose Facility, Main Building, Warehouse		1	
Facsimile			

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OFFSITE AGENCY COORDINATION CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan	1		
Emergency Plan Implementing Procedures	1	1	
Benton/Franklin County Emergency Plan		1	
Washington State Emergency Plan		1	
After Action Report Forms		1 Pkg	
Center Manning Chart		1	
Emergency Classification Status Board		1	
Ten-Mile Emergency Planning Zone Map		1	
Significant Events Status Board		1	
Evacuation Route, Barricade, and Assistance Center Map		1	
Whiteboard		1	
WNP-2 Cutaway Poster		1	
Clock (24 hour display)		1	
Individual Position Signs		1	
Cork Board		2	
Clipboard		3	
In/Out Baskets		1	
EBS Radio		1	

Attachment G-9
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-72 of 91

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TECHNICAL DATA CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
GDS Terminal	1		
Standard CRT Display Terminals	2		
Printer/Plotter Device	1		
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	2		
NEFAX Operator's Manual		1	
PDIS Design Specifications		1	
NEFAX Paper (Spare)		1 Roll	
Four Connection Multiple Outlet		1	
Overhead Projector		1	
T-Square		1	
After Action Report Forms		1 Pkg	
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Significant Events Status Board		1	
Plant Status Board		1	
Protective Action Recommendation Flow Charts		1 Set	
White Board		5	
Clock (24 hour display)		1	
Cork Board		1	
Tray of 35 mm Slides		1	
Clipboard		3	
In/Out Baskets		1	
Facsimile	1		

Attachment G-10
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-73 of 91

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METEOROLOGY AND UNIFIED DOSE ASSESSMENT CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
GDS Terminal	1		
Standard CRT Display Terminal	1		
Printer/Plotter Device	1		
TRS-80, Model 100 (In Room 129D)	1		
Tape Recorder	1		
Program Cassette Data tape (from Room 129D)	1		
Electrical Supply Isolation Unit	1		
IBM-PC		1	
Epson Printer		1	
Hayes Modem HP		1	
HP 7470A Plotter		1	
Potassium Iodide	50 Bottles		
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Emergency Organization Telephone Directory	2		
Evacuation Time Study		1	
EDPS User's Manual		1	
Field Team Map Kits		6	
Fifty Mile Emergency Planning Zone Map		6	
Manual Emergency Dose Calculation Manual		1	
State DSHS Procedure Set		1	
Photographic Map Book (10-mile EPZ)		6	
Tri-Cities Map		2	
Washington State Road Map		1	
WINCO-1009		2	
WINCO-1012		2	
Radio Remote Control Units	3		

Attachment G-11
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-74 of 91

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METEOROLOGY AND UNIFIED DOSE ASSESSMENT CENTER

INVENTORY LIST

(Continued)

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Ten-Mile Emergency Planning Zone Map		2	
Significant Events Status Board		1	
Protective Action Recommendation Flow Charts		1 Set	
Evacuation Route, Barricade, and Assistance Center Map		1	
WNP-2 Cutaway Poster		1	
Aerial Monitoring Map		1	
Aerial Photograph Mosaic		1	
Meteorological and Plume Data Status Board		1	
Clock (24 hour display)		1	
Overhead Projector		2	
Overhead Projector Bulb (Spare)		2	
Clipboard		2	
In/Out Baskets		1 Set	
Overhead Projector Roller Mechanism		2	
Overhead Projector Film Rolls		2	
After Action Report Forms		1 Pkg	

Attachment G-11
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-75 of 91

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MEDIA BRIEFING AND PREPARATION AREA

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1		
Emergency Organization Telephone Directory	1		
Cliboard		3	
In/Out Baskets		1	
After Action Report Forms		1 Pkg	

Attachment G-12
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-76 of 91

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EOF RECORDS ROOM

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity Desirable</u>	<u>On-Hand</u>
WNP-2 Shielding Evaluation Report	1		
General Arrangement Plan/Flow Diagram	1		
Master Equipment List	1		
WNP-2 Technical Specifications	1		
WNP-2 Plant Operating Procedures	1 Set		
WNP-2 Final Safety Analysis Report	1 Set		
WNP-2 As-Built Drawings	1 Set		
Microfilm Roll Reader/Printer	1		
Aperture Card Reader/Printer	1		
WNP-2 Emergency Operating Procedures	1 Set		
Word Processing Station		1	1

Attachment G-13
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-77 of 91

CONTROLLED COPY.

NRC WORK AREA

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures		1	
Emergency Organization Telephone Directory		1	
White Board .		2.	
Cork Board		1	
Clock (24 hour display)		1	
Clipboards		3	
In/Out Baskets		1 Set	

Attachment G-14
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-78 of 91



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CRISIS MANAGEMENT CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity</u> <u>Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1		
Emergency Organization Telephone Directory	1		
Drawings (from FSAR)		1 Set	
Staff Manning Chart		1	
Emergency Classification Status Board		1	
Ten-Mile Emergency Planning Zone Map		1	
Fifty-Mile Emergency Planning Zone Map		1	
Significant Events Status Board		1	
Plant Status Board		1	
Protective Action Recommendation Flow Chart		1	
Owner Controlled Area Emergency Procedure Poster		1	
Evacuation Route, Barricade, and Assistance Center Map		1	
White Board		1	
WNP-2 Cutaway Poster		1	
Emergency Organization Chart		1	
Washington State Map		1	
Safeguards and Contingency Chart		1	
Clock (24 hour display)		1	
Exclusion Area Map		1	
After Action Report Forms		1 Pkg	
Facsimile (Located in HQ Com. Room)	1		

Attachment G-15
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-79 of 91



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JOINT INFORMATION CENTER

INVENTORY LIST

<u>Item</u>	<u>Required</u>	<u>Quantity Desirable</u>	<u>On-Hand</u>
WNP-1, 2 Emergency Preparedness Plan		1	
Emergency Plan Implementing Procedures	1	1	
Word Processor Work Stations	2	2	
Emergency Organization Telephone Directory	2		
Media Information Packages	25	25	
Press Kits	4	4	
Media Graphics		8	
Emergency Slides		1 Set	
Clock (24 hour display)		1	
Emergency Classification Status Board		3	
TV Monitor		2	
EBS Radio		1	
Radio Actuality Machine		1	
90 Minute Tapes		2	
Ten-Mile Emergency Planning Zone Map			
Staffing Roster		1	
Media Contact List		1	

Attachment G-16
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-80 of 91

CONFIDENTIAL

CONTROLLED COPY

SIGN-IN SHEET

Date _____ Time _____ Team _____ Number _____

TEAM MEMBERS

Print

Signature

Organization

DISCREPANCIES FOUND:

Attachment H

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-81 of 91

1944



CONTROLLED COPY

SIGN-OUT SHEET

Date _____ Time _____ Team _____ Number _____

TEAM MEMBERS

Print

Signature

Organization

_____	_____	_____
_____	_____	_____
_____	_____	_____

DISCREPANCIES FOUND:

Attachment I

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-82 of 91

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OFF-SITE EMERGENCY SIGNS

- J-1 Instructions
- J-2 Sign Locations
- J-3 Sign Locations - Detailed Descriptions

Attachment Section J

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-83 of 91

1944



CONTROLLED COPY

INSTRUCTIONS

OFF-SITE EMERGENCY SIGNS

Annually:

- o Check physical condition of signs.
- o Arrange repair and replacement of signs as necessary.

Attachment J-1
Page 1 of 1

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-84 of 91

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SIGN LOCATIONS

<u>Type</u>	<u>Quantity</u>	<u>Number</u>	<u>Location</u>
Restricted Area	1	#1)	WNP-2 Access Road
	2	#2)	FFTF Railroad Access
	1	#3)	DOE Railroad Access (from South)
	1	#4)	WNP-1/4 Access Road
	1	#5)	115 Kv Line (from South)
	1	#6)	Pump House Access Road
	2	#7)	Ashe Substation Road
		#8)	(Not used)
	1	#9)	DOE Railroad Access (from North)
	1	#10)	WNP-2 Access Road
	<u>1</u>	#11)	Telephone Cable Road
	12		
Exclusion Area	1	#1)	WNP-2 Access Road
	3	#2)	FFTF Railroad Access
	1	#3)	DOE Railroad Access (from South East)
	1	#4)	WNP-1/4 Access Road to WNP-2
		#5)	(Not used)
	1	#6)	DOE Railroad (to WNP-1/4)
	1	#7)	WNP-1/4 Access Road to WNP-1
	1	#8)	Pump House Access Road
	1	#9)	500 Kv Line (from River to Ashe)
	1	#10)	Power Lines (from Northwest to Ashe)
	1	#11)	DOE Railroad (from Northwest)
	1	#12)	Power Lines (from Southwest to Ashe)
	1	#13)	Entry to Parking Lot for WNP-1
	1	#14)	Construction Road along North Fence of WNP-4
	1	#15)	Road East of DOE Railroad
	<u>1</u>	#16)	Road West of DOE Railroad
	17		

Attachment J-2
Page 1 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-85 of 91

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REDISTRIBUTED

SIGN LOCATIONS (Continued)

<u>Type</u>	<u>Quantity</u>	<u>Number</u>	<u>Location</u>
Emergency Siren Information	1	#1)	WNP-1, 2 Crossroads
	1	#2)	WNP-2 River Pump House
	1	#3)	North of WNP-2 River Pump House
	1	#4)	Ringold Hatchery
	1	#5)	Leslie Groves Park
Caution	1	#1)	Plant Support Facility - Parking Lot Access Road
	1	#2)	Meteorological Tower - on Building
	1	#3)	GTE Microwave Building - on Fence
	1	#4)	Gate 23 - Bechtel Badging Trailer
	1	#5)	Gate 23 - Vehicle Construction Area Gate
	1	#6)	Gate 23 - Pedestrian Construction Area Gate
	1	#7)	Gate 23 - in Parking Lot Near Large Signs on Access Road
	1	#8)	(Not Used)
	1	#9)	WNP-2 Surplus Sales Yard Gate
	1	#10)	BPA Ashe Substation in Front of Smaller of Two Buildings
	1	#11)	PAP - at Stop Sign at Railroad Crossing
	1	#12)	Building 89 - at Security Training Building Next to "Chalet"
	1	#13)	Gate 25 - at Entrance to Warehouse Complex
	1	#14)	PAP - Beside Visitor's Center Sign at Entrance to Parking Lot
	1	#15)	Visitor's Center - on South Side
	1	#16)	WNP-2 Lower Parking Lot - at Steps to Upper Level Near Tracks
	1	#17)	"Y" Siren - on Pole

Attachment J-2
Page 2 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-86 of 91

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SIGN LOCATIONS (Continued)

<u>Type</u>	<u>Quantity</u>	<u>Number</u>	<u>Location</u>
	1	#18)	Sewage Treatment Plant - on North Side of Building
	1	#19)	WNP-1 - on Main Vehicle Gate
	1	#20)	WNP-1 - on Fence Next to Pedestrian Gate
	1	#21)	(Not Used)
	1	#22)	(Not Used)
	1	#23)	WNP-4 - on Main Vehicle Gate
	1	#24)	WNP-4 - on Fence Next to Pedestrian Gate
	1	#25)	Firing Range - on South Side of Building 86

Attachment J-2
Page 3 of 3

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-87 of 91

THE UNIVERSITY OF CHICAGO

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SIGN LOCATIONS-DETAILED DESCRIPTIONS

Restricted Area

- #1) WNP-2 Access Road - Approximately 30 feet West of small sign indicating PSF, approximately 200-300 feet West of PSF access road.
- #2) FFTF Railroad Access (2 signs) - (1) On road just East of telephone so that it also covers road along telephone line (2) by Railroad track adjacent to sign (1).
- #3) DOE Railroad Access, (from South) - Where railroad tracks cross access road to the sewage plant.
- #4) WNP-1/4 Access Road - On road, East side, across from access road to the sewage plant.
- #5) 115 kV Line (from South) - On access road to sewage plant adjacent to the substation.
- #6) Pump House Access Road - East of intersection approximately 100-500 feet; adjacent to last post (West) on parking lot fence on North side of road.
- #7) Ashe Substation Road (2 signs) - (1) At intersection with Unit 2 access road. (2) On dirt road that meets substation road at Unit 2 access road, approximately 20-30 feet East of intersection.
- #8) Not used.
- #9) DOE Railroad Access (from North) - At WNP-2 access road crossing on South side of road.
- #10) WNP-2 Access Road - On West side of access road just South of turn in road which is just East of railroad track crossing.
- #11) Telephone Cable Road - On West side of road just South of road going off to West to parallel power lines; adjacent to old telephone pole. (See note bottom of page 2.)

Exclusion Area

- #1) WNP-2 Access Road - Just West of bend in road; approximately 30 feet West of "Speed Limit 35" sign; on South side of road.
- #2) FFTF Railroad Access (3 signs) - (1) On road on North side of tracks approximately 0.4 mile from Route 4, just East of bend in tracks. (2) On South side of tracks adjacent to sign (1) - (3) On road on South side of tracks adjacent to sign (2).

Attachment J-3
Page 1 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-88 of 91

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SIGN LOCATIONS-DETAILED DESCRIPTIONS (Continued)

- #3) DOE Railroad Access (from Southeast) - On East side of tracks adjacent to sign #4 below.
- #4) WNP-1/4 Access Road to WNP-2 - Under second set of traffic signs across highway, North of intersection.
- #5) Not used.
- #6) DOE Railroad (to WNP-4) - On fence where tracks enter WNP-4 fenced area - next to gate.
- #7) WNP-1/4 Access Road to WNP-1 - On road just North of intersection with road that runs East-West along WNP-1 fence.
- #8) Pump House Access Road - At gate on East side of Unit 1 fence where roads passes through fenced area of WNP-1/4, approximately 6 feet East of fence.
- #9) 500 kV line (from River to Ashe) - At third single tower after line turns East from Ashe. Small red sign on tower reads "ACF 188".
- #10) Power Lines (from Northwest to Ashe) - Just South of environmental sample road crossing. Sample road runs East of railroad crossing mentioned in sign #s 11, 15 and 16 below.
- #11) DOE Railroad (from Northwest) - On West side of tracks just North of road crossing.
- #12) Power Lines (from Southwest to Ashe) - Adjacent to the fourth set of towers West of the telephone cable road. (See note at bottom of page.)
- #13) Entry to Parking Lot for WNP-1 - At entry to WNP-1 parking lot which is just East of railroad access in sign #6 above.
- #14) Construction Road along North Fence of WNP-4 - At access gate due North of Unit containment; near stored polar crane; sign on North side of road and facing East.
- #15) Road East of DOE Railroad - On road just North of railroad crossing.
- #16) Road West of DOE Railroad - On road just South of railroad crossing.

NOTE: The telephone cable road is the dirt/gravel road intersecting the WNP-2 access road about 150-200 feet North of the North fence line of Wye Burial Ground.

Attachment J-3
Page 2 of 2

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-89 of 91

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VENTILATION RADIATION MONITORING

HVAC

Location:

- o Emergency Operations Facility (EOF)

Quarterly

- o Perform radiological check of HVAC in accordance with RPI 7.4.5 with assistance from Facilities personnel for verification.
- o Document this check by signing the tickler card and the data sheet, File 963.5.22, in the possession of Radiological Programs.

Attachment K

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-90 of 91

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FACILITIES SYSTEMS TESTS

A. HVAC

Location:

- o Emergency Operations Facility (EOF)

Quarterly

- o Perform electrical check of HVAC in accordance with manufacturers specifications.
- o Verify radiological check with assistance from Radiological Program personnel.
- o Document this check by signing the Data Sheet in possession of Rad. Services.

B. Diesel Generators

Locations:

- o Headquarters (HQ)
- o Emergency Operations Facility (EOF)

Monthly

- o Perform load test of diesel generators in accordance with manufacturers specifications.

Quarterly

- o Verify operation of transfer switch in accordance with manufacturers specifications.

Attachment L

PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
13.14.4	5	13.14.4-91 of 91

PRC APERTURE CARD

DETAIL 'A' LOOP SEAL
TYPICAL OF FIVE (ONE FOR EACH DIESEL EXHAUST)

Also Available On
Aperture Card

NOTES
1. ALL DIESEL PIPING AND ASSOCIATED COMPONENTS ON THIS Dwg ARE INCLUDED IN CONTRACT 215 EXCEPT AS NOTED IN NOTES ARE CLASSIFIED

QUALITY CLASS I
CODE GROUP D
SEISMIC CATEGORY I
2. ALL DIESEL PIPING AND ASSOCIATED COMPONENTS ON THIS Dwg ARE INCLUDED IN CONTRACT 215 EXCEPT AS NOTED IN NOTES ARE CLASSIFIED

QUALITY CLASS I
CODE GROUP C
SEISMIC CATEGORY I
3. ALL PIPING VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACT 215 EXCEPT WHERE CONTRACT INTERFACES ARE DENOTED BY:

CONTRACT 215
CONTRACT 2 OR 50

4. ALL PIPING AND FITTINGS FOR DIESEL ENGINE AND DIESEL GENERATOR ARE SUPPLIED BY CONTRACT 215 AND SUPPORTED AND ERECTED BY CONTRACT 215

5. PIPING AND EQUIPMENT FOR DIESEL GENERATOR, DIESEL ENGINE IS IDENTICAL TO THAT SHOWN FOR DIESEL GENERATOR, DIESEL ENGINE

6. EQUIPMENT TAG NUMBER WITH SUFFIX AS REFERS TO DIESEL ENGINE OF DIESEL GENERATOR DIESEL ENGINE SUFFIX AS REFERS TO DIESEL ENGINE OF DIESEL GENERATOR DIESEL ENGINE SUFFIX AS REFERS TO DIESEL ENGINE OF DIESEL GENERATOR DIESEL ENGINE SUFFIX AS REFERS TO DIESEL ENGINE OF DIESEL GENERATOR

7. ALL ITEMS MARKED * ARE FURNISHED WITH ASSOCIATED EQUIPMENT

8. ALL PIPING COMPONENTS AND INSTRUMENTATION SHOWN WITHIN THE COMPASS OF THE SCO PACKAGE ARE SUPPLIED WITH THE ASSOCIATED EQUIPMENT. INSTRUMENTATION LINES FROM THE ENGINES TO THE CONTROL ROOM ARE CLASSIFIED

QUALITY CLASS I
CODE GROUP D
SEISMIC CATEGORY I
9. DIESEL OIL STORAGE AND DAY TANK VENTS TO BE PIPED OUTSIDE OF BUILDING

10. ALL DIESEL OIL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE UP TO THE ATMOSPHERE INCLUDED IN CONTRACT 215 IS CLASSIFIED

QUALITY CLASS I
CODE GROUP D
SEISMIC CATEGORY I
11. ALL DIESEL OIL PIPING AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACT 215 AND REFERRED TO BY THIS NOTE ARE CLASSIFIED

QUALITY CLASS II
CODE GROUP D
SEISMIC CATEGORY II
12. DOWNHOLE IS TO BE SUPPLIED EQUIPMENT AND IN ACCORDANCE WITH THE CONTRACT COMPLETES WITH THE DESIGN OF THE SCO PACKAGE

13. ALL DIESEL PIPING AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACT 215 REFERRED TO BY THIS NOTE ARE CLASSIFIED

QUALITY CLASS II
CODE GROUP D
SEISMIC CATEGORY II
14. SEE SECTION 15.0 CONTRACT 215

15. CODE DEFINITIONS FOR THERMOWELLS ARE SHOWN AND INSTALLATION OF THERMOWELLS AND SAMPLE PROSES

16. ALL ITEMS REFERRING TO THIS NOTE ARE INSTALLED WITHIN THEIR RESPECTIVE FUEL FILTER MANIFOLD

17. DIESEL OIL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE UP TO THE ATMOSPHERE INCLUDED IN CONTRACT 215 IS CLASSIFIED

18. DIESEL OIL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE UP TO THE ATMOSPHERE INCLUDED IN CONTRACT 215 IS CLASSIFIED

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25. DIESEL OIL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE UP TO THE ATMOSPHERE INCLUDED IN CONTRACT 215 IS CLASSIFIED

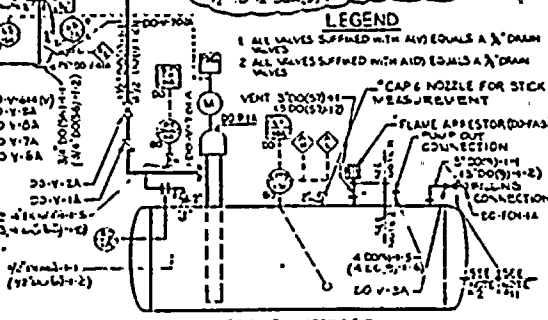
26. DIESEL OIL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE UP TO THE ATMOSPHERE INCLUDED IN CONTRACT 215 IS CLASSIFIED

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30. DIESEL OIL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE UP TO THE ATMOSPHERE INCLUDED IN CONTRACT 215 IS CLASSIFIED



VALVE NO.	LINE NO.	VALVE NO.	LINE NO.
DO-V-101	DO-V-101	DO-V-101	DO-V-101
DO-V-102	DO-V-102	DO-V-102	DO-V-102
DO-V-103	DO-V-103	DO-V-103	DO-V-103
DO-V-104	DO-V-104	DO-V-104	DO-V-104
DO-V-105	DO-V-105	DO-V-105	DO-V-105
DO-V-106	DO-V-106	DO-V-106	DO-V-106
DO-V-107	DO-V-107	DO-V-107	DO-V-107
DO-V-108	DO-V-108	DO-V-108	DO-V-108
DO-V-109	DO-V-109	DO-V-109	DO-V-109
DO-V-110	DO-V-110	DO-V-110	DO-V-110

VENT VALVE EQUIVALENCY
ORIENTATION FOR
CONTRACT 215 (SHOWN THIS Dwg.)
DO-V-101 (NOT SHOWN THIS Dwg.)

NOTES
LINE NUMBERS IN
BRACKETS LEAD TO 'B'
SYSTEM IDENTIFICATION.

BURNS AND ROE, INC.
ENGINEERS AND ARCHITECTS
4000 N. 10TH AVE., LOS ANGELES, CALIF.

FLOW DIAGRAM
DIESEL OIL & MISC SYSTEM
DIESEL GENERATOR BUILDING

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
HAND NO. 2

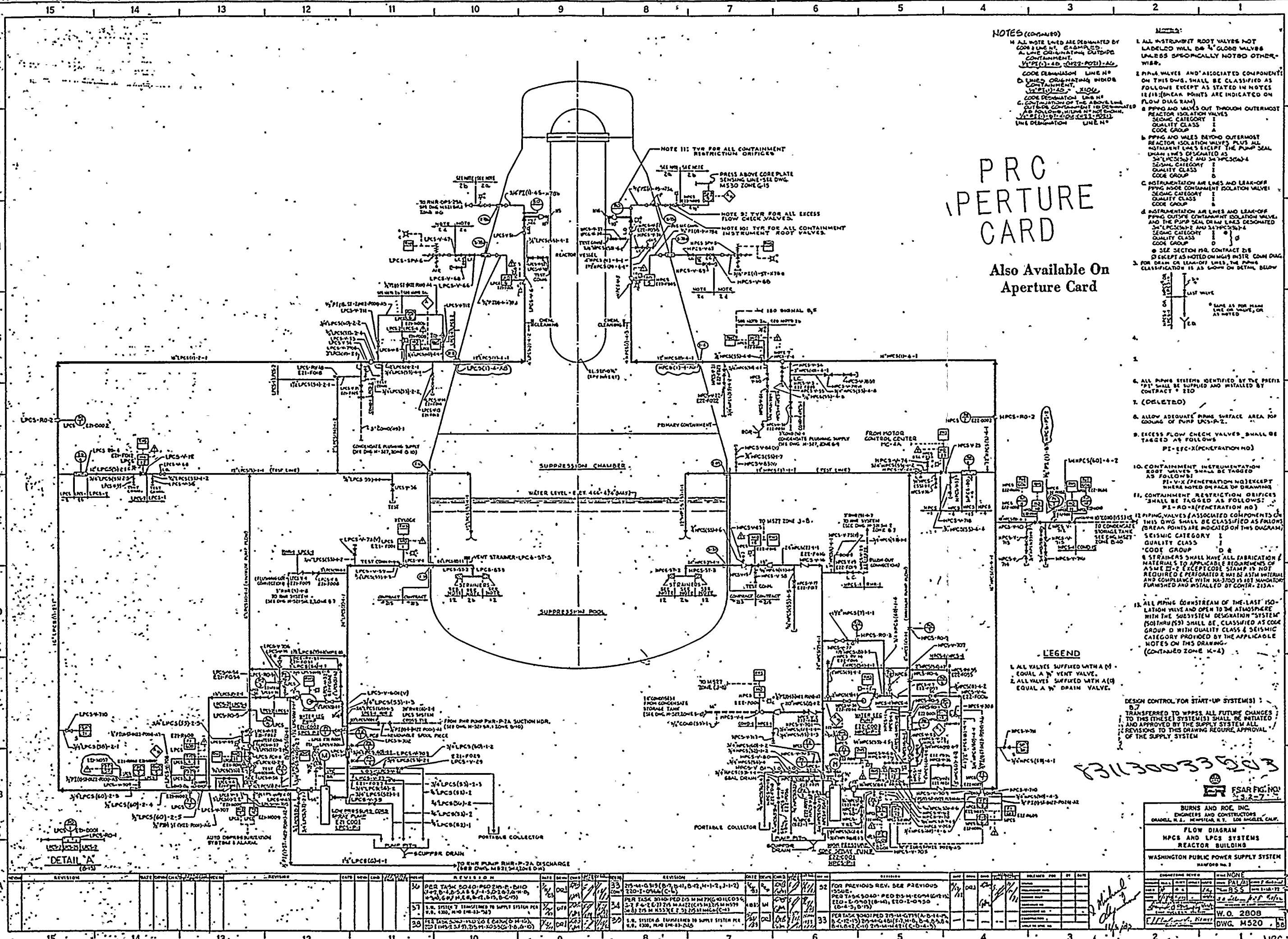
ENGINEER
DATE
CHECKED
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APPROVED
DATE
W.O. 2808
DWG. M 512

REVISION	DATE	BY	APP'D	REVISION	DATE	BY	APP'D
1	10/1/50	W.B.		1	10/1/50	W.B.	
2	10/1/50	W.B.		2	10/1/50	W.B.	
3	10/1/50	W.B.		3	10/1/50	W.B.	
4	10/1/50	W.B.		4	10/1/50	W.B.	
5	10/1/50	W.B.		5	10/1/50	W.B.	
6	10/1/50	W.B.		6	10/1/50	W.B.	
7	10/1/50	W.B.		7	10/1/50	W.B.	
8	10/1/50	W.B.		8	10/1/50	W.B.	
9	10/1/50	W.B.		9	10/1/50	W.B.	
10	10/1/50	W.B.		10	10/1/50	W.B.	

DESIGN CONTROL FOR START-UP SYSTEM(S)
GO, 17
TRANSFERRED TO WPPSS ALL FUTURE CHANGES
TO THIS (THESE) SYSTEM(S) SHALL BE INITIATED
AND APPROVED BY THE SUPPLY SYSTEM ALL
REVISIONS TO THIS DRAWING REQUIRE APPROVAL
OF THE SUPPLY SYSTEM AND THE ARCHITECT/
ENGINEER.

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PRC APERTURE CARD

Also Available On
Aperture Card

NOTES (CONTINUED)

ALL NOTE LINES ARE DESIGNATED BY CODE LINE NO. EXAMPLES:
A. LINE ORIGINATING OUTSIDE CONTAINMENT
V-PI(1)-4-2 (V-PI(1)-4-2)
CODE ORIGINATING LINE NO. D. LINE ORIGINATING INSIDE CONTAINMENT
V-PI(1)-4-2 (V-PI(1)-4-2)
CODE ORIGINATING LINE NO. C. CONTINUATION OF THE ABOVE LINE OUTSIDE CONTAINMENT IS DESIGNATED BY CODE LINE NO. NOT SHOWN
V-PI(1)-4-2 (V-PI(1)-4-2)
LINE DESIGNATION LINE NO.

- NOTES:**
1. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 1/2" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
 2. PIPING VALVES AND ASSOCIATED COMPONENTS ON THIS DWG. SHALL BE CLASSIFIED AS FOLLOWS EXCEPT AS STATED IN NOTES 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 3. PIPING AND VALVES OUT THROUGH OUTERMOST REACTOR ISOLATION VALVES SHALL BE CLASSIFIED AS FOLLOWS EXCEPT AS STATED IN NOTES 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 4. INSTRUMENTATION AIR LINES AND LEAK-OFF PIPING INSIDE CONTAINMENT ISOLATION VALVE AND THE PIPING SEAL DRAW LINES DESIGNATED BY CODE LINE NO. NOT SHOWN SHALL BE CLASSIFIED AS FOLLOWS EXCEPT AS STATED IN NOTES 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 5. SELF SECTION FOR CONTRACT D/S EXCEPT AS NOTED OTHERWISE IN THE Dwg. FOR DRAIN OR LEAK-OFF LINES, THE PIPING CLASSIFICATION IS AS SHOWN ON DETAIL BELOW.

6. ALL PIPING SYSTEMS IDENTIFIED BY THE PREFIX "PT" SHALL BE SUPPLIED AND INSTALLED BY CONTRACT # 210.
7. (DELETED)
8. ALLOW ADEQUATE PIPING SURFACE AREA FOR COOLING OF PUMP LPS-2.
9. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS:
PT-EPG-X(PENETRATION NO.)
10. CONTAINMENT INSTRUMENTATION ROOT VALVES SHALL BE TAGGED AS FOLLOWS:
PT-V-X(PENETRATION NO.) EXCEPT WHERE NOTED ON FACE OF DRAWING.
11. CONTAINMENT RESTRICTION ORIFICES SHALL BE TAGGED AS FOLLOWS:
PT-R-X(PENETRATION NO.)
12. PIPING VALVES ASSOCIATED COMPONENTS ON THIS DWG. SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE INDICATED ON THIS DRAWING):
SEISMIC CATEGORY 1
QUALITY CLASS 1
CODE GROUP D R
13. ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO THE ATMOSPHERE WITHIN THE SUBSYSTEM DESIGNATION SYSTEM (ISO THROUGH) SHALL BE CLASSIFIED AS CODE GROUP D WITH QUALITY CLASS 1 SEISMIC CATEGORY PROVIDED BY THE APPLICABLE NOTES ON THIS DRAWING.
(CONTINUED ZONE K-4)

LEGEND

1. ALL VALVES SUFFIXED WITH A (M) EQUAL A "M" VENT VALVE.
2. ALL VALVES SUFFIXED WITH A (D) EQUAL A "D" DRAIN VALVE.

DESIGN CONTROL FOR START-UP SYSTEM(S):
B.7
TRANSFERRED TO WPPSS ALL FUTURE CHANGES TO THIS (THESE) SYSTEM(S) SHALL BE INITIATED AND APPROVED BY THE SUPPLY SYSTEM ALL REVISIONS TO THIS DRAWING REQUIRE APPROVAL OF THE SUPPLY SYSTEM.

BURNS AND ROE, INC. ENGINEERS AND CONSTRUCTORS DANIEL R. ROE, MEMBER A.S.T. LOS ANGELES, CALIF.	
FLOW DIAGRAM HPCS AND LPCS SYSTEMS REACTOR BUILDING	
WASHINGTON PUBLIC POWER SUPPLY SYSTEM RAWPSS No. 2	
ENGINEERING REVISION	DATE
1. NONE	
2. BSS	11-1-78
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REVISION	DATE	BY	CHKD	APP'D	REVISION	DATE	BY	CHKD	APP'D
30	11-1-78	33	11-1-78
31	11-1-78	34	11-1-78
32	11-1-78	...	...	...	35	11-1-78	...	...	...

REVISION	DATE	BY	CHKD	APP'D	REVISION	DATE	BY	CHKD	APP'D
36	11-1-78	...	...	...	39	11-1-78	...	...	...
37	11-1-78	...	...	...	40	11-1-78	...	...	...
38	11-1-78	...	...	...	41	11-1-78	...	...	...

REVISION	DATE	BY	CHKD	APP'D	REVISION	DATE	BY	CHKD	APP'D
42	11-1-78	...	...	...	45	11-1-78	...	...	...
43	11-1-78	...	...	...	46	11-1-78	...	...	...
44	11-1-78	...	...	...	47	11-1-78	...	...	...

REVISION	DATE	BY	CHKD	APP'D	REVISION	DATE	BY	CHKD	APP'D
48	11-1-78	...	...	...	51	11-1-78	...	...	...
49	11-1-78	...	...	...	52	11-1-78	...	...	...
50	11-1-78	...	...	...	53	11-1-78	...	...	...

K

19. ALL ITEMS IN CROSSHATCHED AREA ARE PART OF THE 2-RR STEAM CONDENSING MODE WHICH HAS BEEN DEACTIVATED. THE PIPING, VALVES & INSTRUMENTATION AS SHOWN ON THIS DIAGRAM ARE INSTALLED MOTOR OPERATED VALVES THAT HAVE BEEN DE-ENERGIZED AND LOCKED CLOSED ARE: RHR-V-52A18, RHR-V-11A10, RHR-V-26A10, RHR-V-57A10, RHR-V-124A18, AND RHR-V-125A18 (REF PCD 215-M-2007)

1. ALL PRESSURE & FLOW INSTRUMENT ROOT VALVES NOT LABELLED WILL BE 3/4" GLOBE VALVES, UNLESS SPECIFICALLY NOTED OTHERWISE

2. ALL ITEMS MARKED * ARE FURNISHED WITH ASSOCIATED EQUIPMENT.

3. PIPING, VALVES & ASSOC. COMPONENTS ON THIS DRAWING SHALL BE CLASSIFIED AS FOLLOWS EXCEPT AS STATED IN NOTES 15 & 17 (BREAK POINTS ARE INDICATED ON FLOW DIAGRAM):

- a. PIPING & VALVE OUT THROUGH OUTERMOST REAC ISOL. VALVES SEIS. CL. 1, QUAL. CL. 1 CODE GRP. A
- b. PIPING & VALVE BEYOND OUTERMOST REAC. ISOL. VALVES EXCEPT THOSE LINES DESIGN. AS 3/4" RHR(S)2, SEIS. CAT. 1, QUAL. CL. 1, CODE GRP. B
- c. INSTR. AIR LINES & LEAK-OFF PIPING INSIDE CONT. ISOL. VLV.; SEIS. CAT. 1, QUAL. CL. 1, CODE GRP. A
- d. INSTR. AIR LINES OUTSIDE CONTAINMENT ISOL. VLV.; SEIS. CL. 1, QUAL. CL. 1, CODE GRP. D
- e. LEAK-OFF PIPING BEYOND LEAK-OFF ISOL. VLV. & THE LINES DESIGNATED AS 3/4" RHR(S)-2, SEIS. CAT. 1, QUAL. CL. 1 CODE GRP. D
- f. PIPING SUBSYSTEMS: ED(R20H & F0RH3) SEIS. CAT. 1, QUAL. CL. 1 + CODE GRP. D
- g. SEE SECT 15.1 Q CONTROL 213.
- h. EXCEPT AS NOTED ON M619 INSTR. PANEL DRAWING 15-213-112

4. CODE DESIGNATION FOR THERMOWELLS ARE 3/4" RHR(S)2. INSTALLATION OF THERMOWELLS AND SAMPLE PROBES:

5. DELETED

6. ALL PIPING SYSTEMS IDENTIFIED BY THE PREFIX "PI" SHALL BE SUPPLIED & INSTALLED BY CONTRACT #220.

7. THIS EQUIPMENT IS NORMALLY CONTROLLED FROM THE MAIN CONTROL ROOM. IF THE MAIN CONTROL ROOM MAY BE ISOLATED & CONTROL TRANSFERRED TO THE REMOTE SHUTDOWN PANEL OGI-POOL.

8. DELETED

9. ALLOW ADEQUATE PIPING SURFACE AREA FOR COOLING OF PUMP RHR-P-3.

10. ALL TEST CONNECTION PIPING WILL ASSUME "RATING" OF SOURCE PIPE AND BE IDENTIFIED AS 3/4" RHR(S)2"

11. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS: PI-EPFC-N# (PENETRATION N#)

12. CONTAINMENT INSTRUMENTATION ROOT VALVES SHALL BE TAGGED AS FOLLOWS: PI-# (PENETRATION) EXCEPT WHERE NOTED ON FACE OF DRAWING

13. EQUIPMENT AND INSTRUMENTS ARE PREFIXED WITH RHR UNLESS OTHERWISE NOTED

14. SEE COMPUTER LIST FOR MOTOR WINDING AND BEARING TEMPERATURE ELEMENTS AND POINT NUMBERS.

15. PIPING, VALVES & ASSOCIATED COMPONENTS ON THIS DRAWING SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE INDICATED ON THIS DIAGRAM)

SEISMIC CATEGORY I

- 1. QUALITY CLASS I
- 2. CODE GROUP D

a. STRAINERS SHALL HAVE ALL FABRICATION & MATERIALS TO APPLICABLE REQUIREMENTS OF ASME B-31.3 EXCEPT FOR WELDING (SEE PARH59) REQUIRED AND PERFORATED PLATE MAY BE ASTM MATERIAL AND COMPLIANCE WITH NA-5700 IS NOT MANDATORY. FURNISHED & INSTALLED BY CONTR. 213A.

16. THESE INSTRUMENTS ARE LOCATED ON COLD SHUTDOWN PANEL.

17. ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO THE ATMOSPHERE BY THE SUBSYSTEM DESIGNATED AS SYSTEM (501 PARH59) SHALL BE CLASSIFIED AS CODE GROUP D WITH QUALITY CLASS AND SEISMIC CATEGORY PROVIDED BY THE APPLICABLE NOTES ON THIS DRAWING.

18. ALL INSTRUMENT LINES ARE DESIGNATED BY CODE AND LINE NUMBER

- a. EXAMPL: LINES ORIGINATING OUTSIDE CONTAINMENT
1/2" PI (1) - 51 - (4-22-2021)-A10
CODE DESCRIPTION LINE NUMBER
- b. EXAMPL: LINES ORIGINATING INSIDE CONTAINMENT
1/2" PI (1) - 45 - A10A
CODE DESCRIPTION LINE NUMBER

19. EXAMPL: CONTINUATION OF THE ABOVE LINE
2" RHR(S)-2 - 100 - (4-22-2021)-A10
CODE DESCRIPTION LINE NUMBER
(CONTINUED FROM 15)

LEGEND

- BURNS AND ROE, INC.**
ENGINEERS AND CONSTRUCTORS
CORPORATE HQS. 1415 WEST 1ST ST. LOS ANGELES, CALIF.

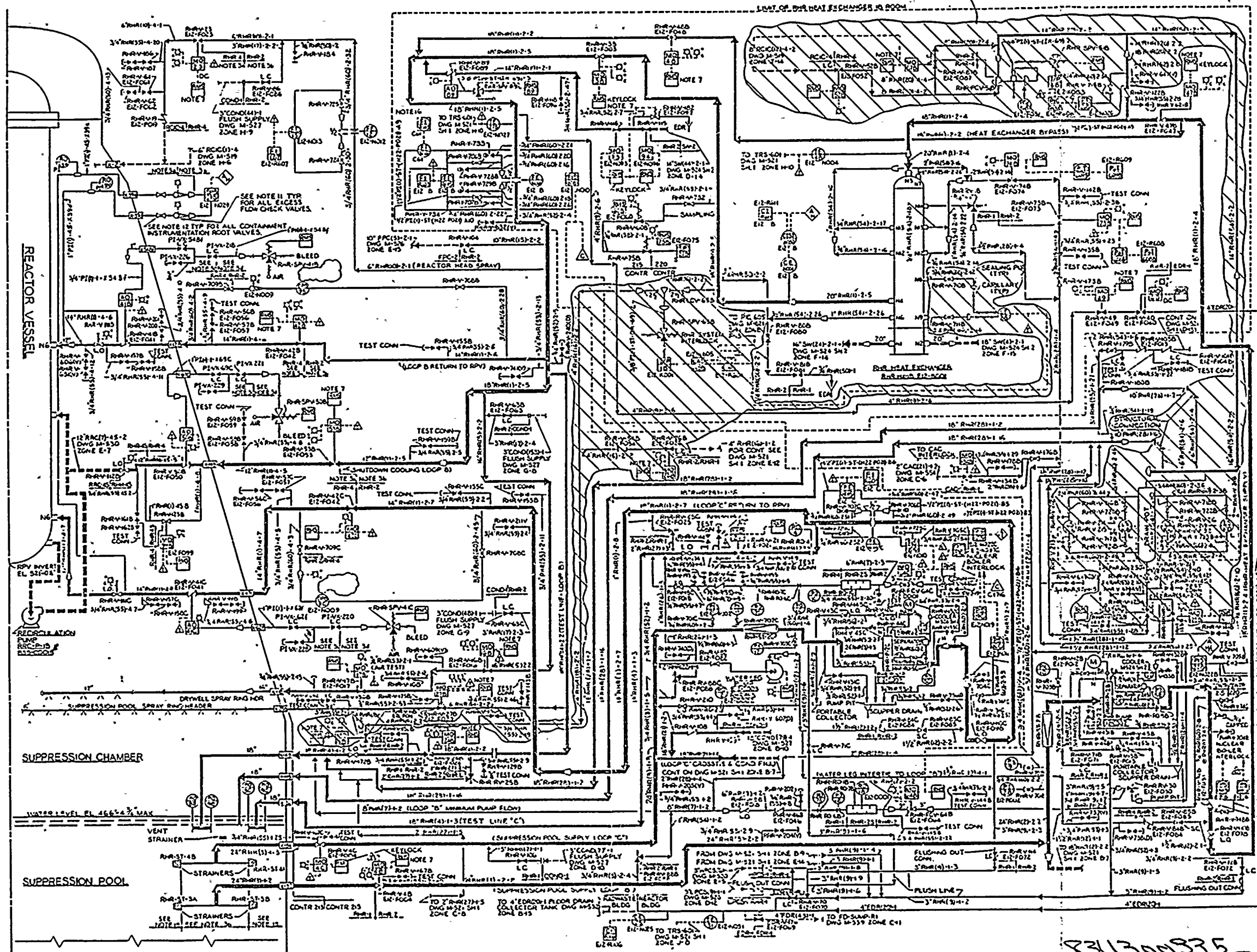
**FLOW DIAGRAM
RESIDUAL HEAT REMOVAL SYSTEM
SHEET 1**

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NATL ORD NO 2

ENGINEERED BY: W. O. 2808				DRAWN BY: W. O. 2808	
DATE: 10/1/71	BY: W. O. 2808	CHECKED BY: W. O. 2808	DATE: 10/1/71	BY: W. O. 2808	CHECKED BY: W. O. 2808
PROJECT: W. O. 2808			PROJECT: W. O. 2808		
SHEET: W. O. 2808			SHEET: W. O. 2808		
TITLE: W. O. 2808			TITLE: W. O. 2808		
REVISION: W. O. 2808			REVISION: W. O. 2808		
APPROVED: W. O. 2808			APPROVED: W. O. 2808		
DATE: W. O. 2808			DATE: W. O. 2808		
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NOTES:
FOR NOTES SEE M 521, SHEET 1.



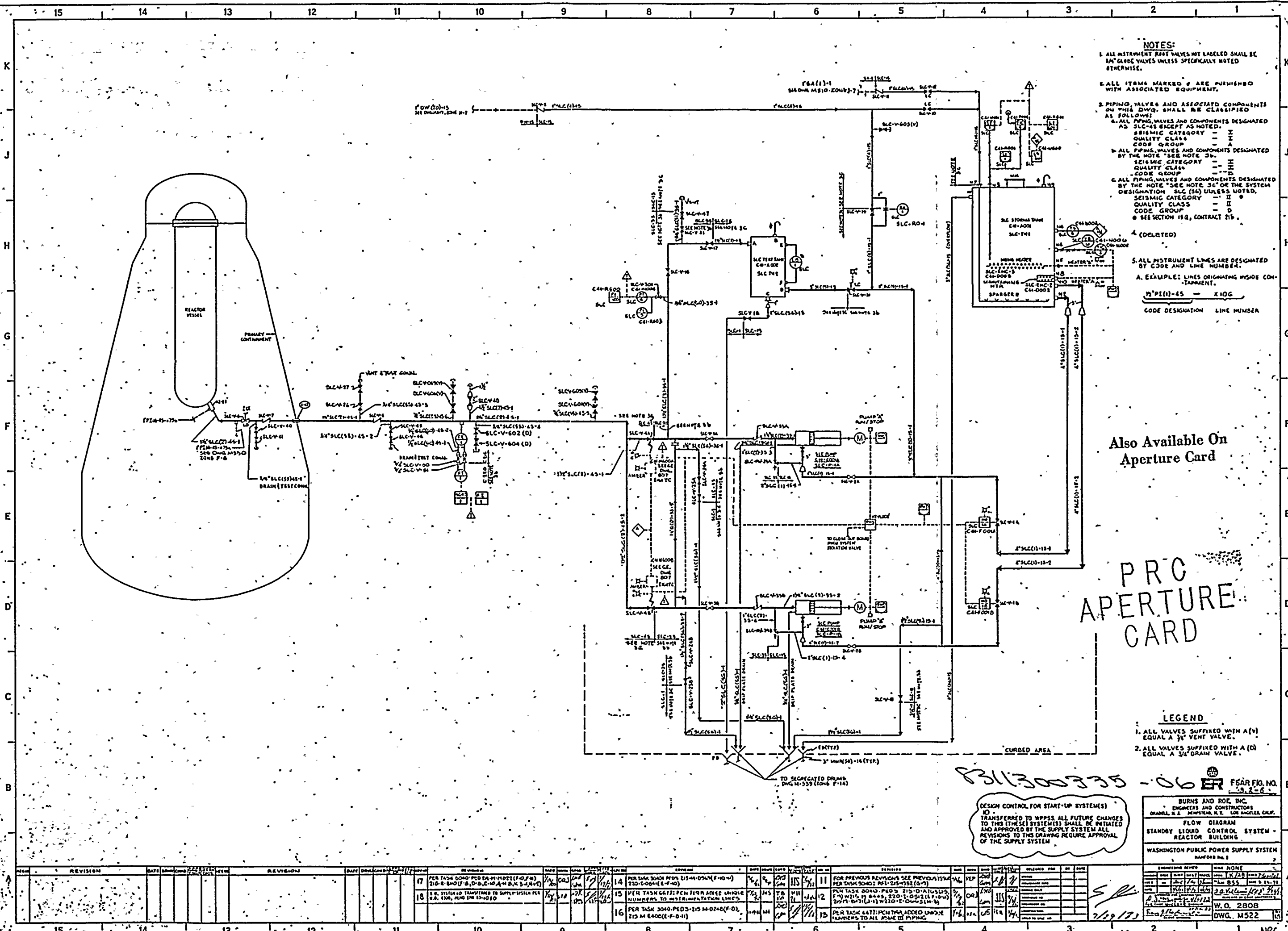
Also Available On
Aperture Card

PRC
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CARD

BURNS AND ROE, INC. ENGINEERS AND CONSTRUCTORS CHICAGO, ILL. 60601	
FLOW DIAGRAM RESIDUAL HEAT REMOVAL SYSTEM SHEET 2	
WASHINGTON PUBLIC POWER SUPPLY SYSTEM UNIT 1	
DATE: 11/1/55	BY: W.O. 2808
DWG. NO. 521 SH 244	

REV	REVISION	DATE	BY	CHKD	APP'D	REVISION	DATE	BY	CHKD	APP'D	REVISION	DATE	BY	CHKD	APP'D
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Also Available On
Aperture Card

PRC
APERTURE
CARD

LEGEND

- 1. ALL VALVES SUFFIXED WITH A(V)
EQUAL A 3/4" VENT VALVE.
- 2. ALL VALVES SUFFIXED WITH A(D)
EQUAL A 3/4" DRAIN VALVE.

DESIGN CONTROL FOR START-UP SYSTEM(S)
NO
TRANSFERRED TO WPPSS ALL FUTURE CHANGES
TO THIS (THESE) SYSTEM(S) SHALL BE INITIATED
AND APPROVED BY THE SUPPLY SYSTEM ALL
REVISIONS TO THIS DRAWING REQUIRE APPROVAL
OF THE SUPPLY SYSTEM

| | |
|--|-----------|
| BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
GRANVILLE, N.E. NEWPORT, N.E. LOS ANGELES, CALIF. | |
| FLOW DIAGRAM
STANDBY LIQUID CONTROL SYSTEM -
REACTOR BUILDING | |
| WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DRAWING NO. 3 | |
| DATE | 10/1/73 |
| BY | W.O. 2808 |
| CHECKED | W.O. 2808 |
| APPROVED | W.O. 2808 |
| DATE | 10/1/73 |
| BY | W.O. 2808 |
| CHECKED | W.O. 2808 |
| APPROVED | W.O. 2808 |

| REV | REVISION | DATE | BY | CHKD | APPD | REV | REVISION | DATE | BY | CHKD | APPD |
|-----|---|---------|-----------|-----------|-----------|-----|---|---------|-----------|-----------|-----------|
| 17 | PER TASK 6040: PED 24-M-HD21 (F-O-F-M)
210-B-640 (F-O-F-M) 210-B-640 (F-O-F-M) | 10/1/73 | W.O. 2808 | W.O. 2808 | W.O. 2808 | 14 | PER TASK 6040: PED 215-M-04N (F-O-F-M)
210-B-640 (F-O-F-M) 210-B-640 (F-O-F-M) | 10/1/73 | W.O. 2808 | W.O. 2808 | W.O. 2808 |
| 18 | S.G. SYSTEM TRANSFERRED TO SUPPLY SYSTEM PER
S.G. 1208, AUG 1973 | 10/1/73 | W.O. 2808 | W.O. 2808 | W.O. 2808 | 15 | PER TASK 6040: PED 215-M-04N (F-O-F-M)
210-B-640 (F-O-F-M) 210-B-640 (F-O-F-M) | 10/1/73 | W.O. 2808 | W.O. 2808 | W.O. 2808 |
| 19 | PER TASK 6040: PED 215-M-04N (F-O-F-M)
210-B-640 (F-O-F-M) 210-B-640 (F-O-F-M) | 10/1/73 | W.O. 2808 | W.O. 2808 | W.O. 2808 | 16 | PER TASK 6040: PED 215-M-04N (F-O-F-M)
210-B-640 (F-O-F-M) 210-B-640 (F-O-F-M) | 10/1/73 | W.O. 2808 | W.O. 2808 | W.O. 2808 |

**Also Available On
Aperture Card**

NOTES:

- 1- ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
- 2- VALVES SW-4-2A, B AND SW-4-29 MAY BE CLOSED PRIOR TO PUMP START. VALVES WILL BE INTERLOCKED WITH PUMPS TO PREVENT PUMP START UNLESS VALVE IS CLOSED. VALVES WILL RUN CLOSE ON PUMP STOP. VALVES ARE BUTTERFLY TYPE.

- 3-PC-38A AND 38B ARE PROVIDED TO MAINTAIN SYSTEM PRESSURE ABOVE RNR SYSTEM PRESSURE DURING COOL DOWN CONDITIONS.

- 4.-ALL ITEMS MARKED * ARE FURNISHED WITH ASSOCIATED EQUIPMENT.

- TO BE IDENTIFIED BY PREFIX "SW"
UNLESS SPECIFICALLY NOTED
(E.G. "SW-PS-40")

- 6-ALL PIPING AND VALVES AND ASSOCIATED COMPONENTS IN THE SW SYSTEM ON THIS DWG. EXCEPT AS STATED IN NOTE 17

- FOLLOWS -
SEISMIC CATEGORY I }
QUALITY CLASS 1 } 8

- EXCEPT AS NOTED ON MBT,
INSTRUMENT CONNECTION DIAGRAM

- 2- ALL PIPING AND VALVES AND ASSOCIATED COMPONENTS IN THE OIL AND GAS SYSTEMS AS INDICATED

- CLASSIFIED AS FOLLOWS--
SEISMIC CATEGORY II
QUALITY CLASS II

- 8- ALL PIPING SHALL BE SUPPLIED AND ERECTED BY THE 215 CONTRACT EXCEPT AS NOTED OTHERWISE.

4. FOR ALL PIPING ARRANGEMENTS AND COOLING COILS SEE DETAIL A.

10. THIS EQUIPMENT IS NORMALLY CON-
TROLLED FROM THE MAIN CONTROL
ROOM. IF THE MAIN CONTROL ROOM

- POINT MAY BE ISOLATED AND CONTROL TRANSFERRED TO THE REMOTE SHUTDOWN PANEL C64-POOL.

- 1 FL, CHEMELEX, TYPE 8ATVI WITH

- 12- VALVES WILL CLOSE ON SW. PUMP SHUT DOWN.

- 14.- VALVE EQUIPPED WITH MECHANICAL
THROTTLE POSITION LOCK.

- THE INLET NOZZLES OF PRA-FC-1A AND 1B ARE TO BE PLUGGED. COIL PRA-CC-1A AND PRA-CC-1B MAY BE

- K₂-ON ISOLATION SIGNALS FA, SW-V-67A AND B AND SW-1420A AND B SHUT

- 12- ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO THE ATMOSPHERE WITH THE SLASYSTEM

- (59) SHALL BE CLASSIFIED AS
FOLLOWS-
SEISMIC CATEGORY II •

- SEE SECTION 60 CONTRACT 215
12. - PIPING REFERRING TO THIS NOTE DOWN
STREAM OF THE LAST ISOLATION VALVE

- QUALITY CLASS II
CODE GROUP D
SUPPORTS FOR THIS PIPING SHALL

- SEISMIC CATEGORY I.
- PL- THE HPFS DIESEL GENERATOR HEAT EXCHANGER, DCW-HX-1C, IS GE

- SECTION VIII, DIVISION 3 OF ASME
BPV CODE, PG 8 EDITION, SUMMER
1970 ADDENDA.

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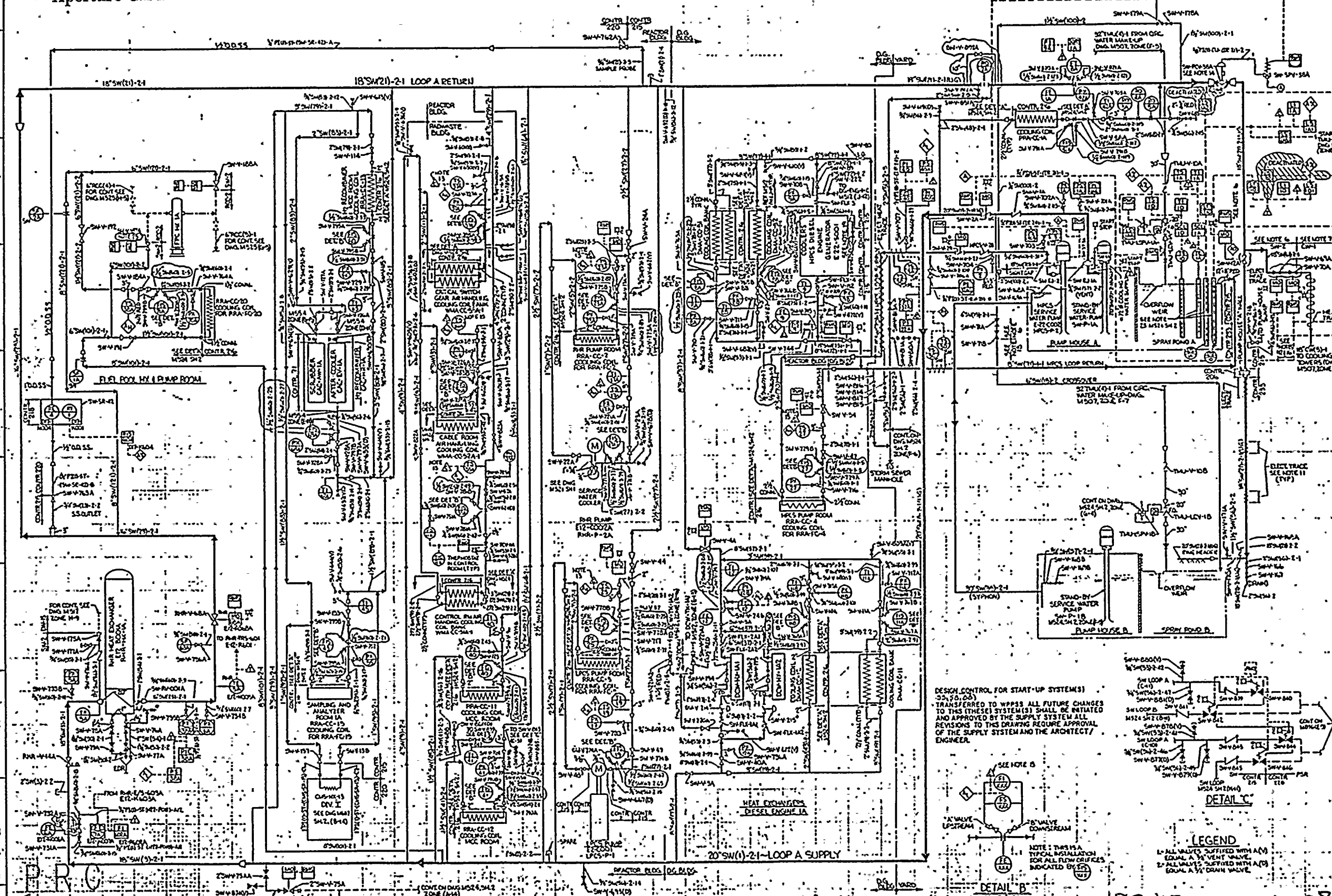
- BURNS AND ROE, INC.**
ENGINEERS AND CONSTRUCTORS
RADELL, N. E. NEWSTEAD, N. Y. LOS ANGELES, CALIF.

- REACTOR,RAOWASTE,DG BLDG'S AND YARD

- | | | | | | | |
|----------------|------|------|------|------|------------|------|
| EFFECTIVE DATE | | | | | CLASS NONE | |
| DATE | DATE | DATE | DATE | DATE | DATE | DATE |
| | | | | | REP | REP |

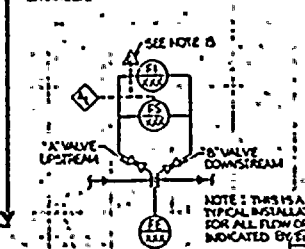
- W.O. 2808

- 2 1 NR



DESIGN CONTROL FOR START-UP SYSTEMS
-32,58,00)

- TRANSFERRED TO WPPSS ALL FUTURE CHANGES TO THIS (THESE) SYSTEM(S) SHALL BE INITIATED AND APPROVED BY THE SUPPLY SYSTEM AND REVISIONS TO THIS DRAWING REQUIRE APPROVAL OF THE SUPPLY SYSTEM AND THE ARCHITECT/ENGINEER.



LEGEND

1. ALL VALVES SUFFIXED WITH
EQUAL A 3/4" VENT VALVE
2. ALL VALVES SUFFIXED WITH
EQUAL A 3/4" DRAIN VALVE

8311301225-08

[illegible]

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|--|----|---------|------|---|----|---------|------|---------|----|--|--|---------|----|--|--|---------|----|--|--|--|--|------|----|---------|---------|----|--|---------|----|--|---------|----|--|
| <p align="center">BURNS AND ROE, INC.
 ENGINEERS AND CONSTRUCTORS
 ORANGE, N.E. 1/2 HWY 101, BOX 1, LOS ANGELES, CALIF.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p align="center">FLOW DIAGRAM
 STANDARD SERVICE WATER SYSTEM
 REACTOR, WASTE, DGG, BLDG'S AND YARD</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p align="center">WASHINGTON PUBLIC POWER SUPPLY SYSTEM
 HANFORD, CALIF. 2</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ENGINEERING REVIEW</p> <table border="1"> <tr> <td>DATE</td> <td>BY</td> <td>REMARKS</td> <td>DATE</td> </tr> <tr> <td>10/1/78</td> <td>WJ</td> <td></td> <td></td> </tr> <tr> <td>10/1/78</td> <td>WJ</td> <td></td> <td></td> </tr> <tr> <td>10/1/78</td> <td>WJ</td> <td></td> <td></td> </tr> </table> | | | | DATE | BY | REMARKS | DATE | 10/1/78 | WJ | | | 10/1/78 | WJ | | | 10/1/78 | WJ | | | <p>WATER REVIEW</p> <table border="1"> <tr> <td>DATE</td> <td>BY</td> <td>REMARKS</td> </tr> <tr> <td>10/1/78</td> <td>WJ</td> <td></td> </tr> <tr> <td>10/1/78</td> <td>WJ</td> <td></td> </tr> <tr> <td>10/1/78</td> <td>WJ</td> <td></td> </tr> </table> | | DATE | BY | REMARKS | 10/1/78 | WJ | | 10/1/78 | WJ | | 10/1/78 | WJ | |
| DATE | BY | REMARKS | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/1/78 | WJ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/1/78 | WJ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10/1/78 | WJ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p><i>W. O. 2808</i></p> | | | | <p>W. O. 2808
 DWG. M524, SLT</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

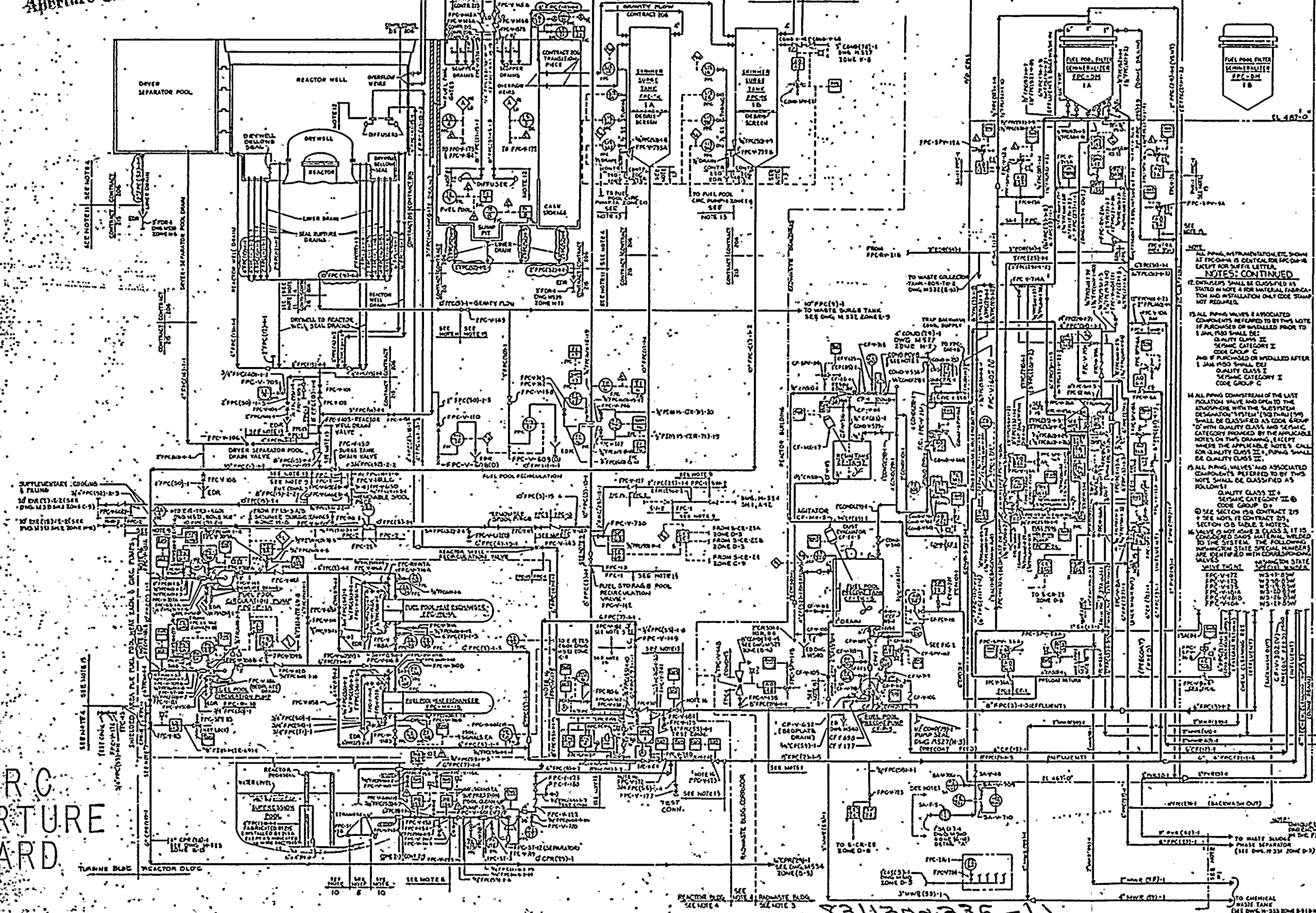
PRC APERTURE CARD

Also Available On
Aperture Card

NOTE
LINE NUMBERS IN PARENTHESES
DENOTE PUMP ID SYSTEM
IDENTIFICATION

NOTE
FOR THE REMAINING UNITS, CHANGE THE
TITLE OF THE UNIT LINE NUMBER TO
CORRESPOND TO THE FOLLOWING UNIT
(SHOWN) IDENTIFIERS: 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, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 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1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 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2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210,

- ALL EQUIPMENT, VALVES, SPECIALTIES, AND INSTRUMENTATION UPSTREAM OF CENCL WASTE
- AND WASTE SLUDGE PHASE SEPARATOR TANKS AND DOWNSTREAM OF RADWASTE BUILDING
- PENETRATION SHALL BE FURNISHED UNDER CONTRACT E-2808-20 WITHIN UNITS 1-100M.



3. ALL PRESSURE DRAINING MODE FLOW INSURGMENT ROOT VALVES NOT USED SHALL BE NO-CLOSE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE
3. ALL PIPING VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING, EXCEPT AS NOTED IN OTHER NOTES SHALL BE CLASSIFIED AS FOLLOWS:
 - QUALITY CLASS I
 - SEISMIC CATEGORY II
 - CODE GROUP C
4. ALL PIPING ON THIS DRAWING IN THE REACTOR BUILDING AND RADIOACTIVE BUILDING CORRIDOR, EXCEPT AS NOTED IN FOLLOWING NOTES SHALL BE CLASSIFIED AS FOLLOWS:
 - QUALITY CLASS II
 - SEISMIC CATEGORY II
 - CODE GROUP C
5. SEE SECTION 14 CONTRACT 28.
5. ALL PIPING REFERRING TO THIS NOTE SHALL BE CLASSIFIED AS FOLLOWS:
 - QUALITY CLASS I
 - SEISMIC CATEGORY I
 - CODE GROUP B
6. DELETED

2. PIPING, VALVES & COMPONENTS SHOWN ON THIS DRAWING (SEE FIGURES 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, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836

QUALITY CLASS II
SEISMIC CATEGORY II-B
CODE GROUP D
SEE SECTION 18.0, CONTRACT 216
CP-SPV-III-1
WATER
SAS
CP-PCV-III-1
CP-PCV-III-2
CP-SPV-III-2
FIG. 1
(D-C)

LEGEND

1. ALL VALVES SUFFIXED WITH A
"0" EQUAL A 3/4" VENT VALVE.

2. ALL VALVES SUFFIXED WITH A
"D" EQUAL A 3/4" DRAIN VALVE.

WNR(30-1) CHEM. CLEANING
WNR(40-1) DNG-M334
BOMR E-3

SEE NOTE 1

DEFINITION CONTROL FOR START-UP SYSTEMS)

TRANSFERRED TO POWER ALL FUTURE CHANGES TO THIS (THIS) SYSTEM(S) SHALL BE DESIGNED AND APPROVED BY THE SUPPLY SYSTEM ALL REVISIONS TO THIS DRAWING REQUIRE APPROVAL OF THE SUPPLY SYSTEM AND THE ARCHITECT/ENGINEER.

ONE NUMBER IN
IDENTITY PLANS
PC'D DECENTRALIZED.

EF

FSAR FIG. NO
2.1-4(3.2-12)

BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
ORACLE, N. J. HEMPSTEAD, N. Y. LOS ANGELES, CALIF.

**FLOW DIAGRAM
FUEL POOL COOLING
AND CLEAN-UP SYSTEM**

| | |
|---------------------------------------|-----------|
| WASHINGTON PUBLIC POWER SUPPLY SYSTEM | |
| " " " MANFORD No. 2 | |
| ENGINEER'S REVIEW | FILE NONE |

[illegible]

| | | |
|-----------------|------------------|------------|
| <i>L.D. ...</i> | W.O. 2808 | |
| <i>R.L. ...</i> | DWG 11526 | 116 |

[illegible]

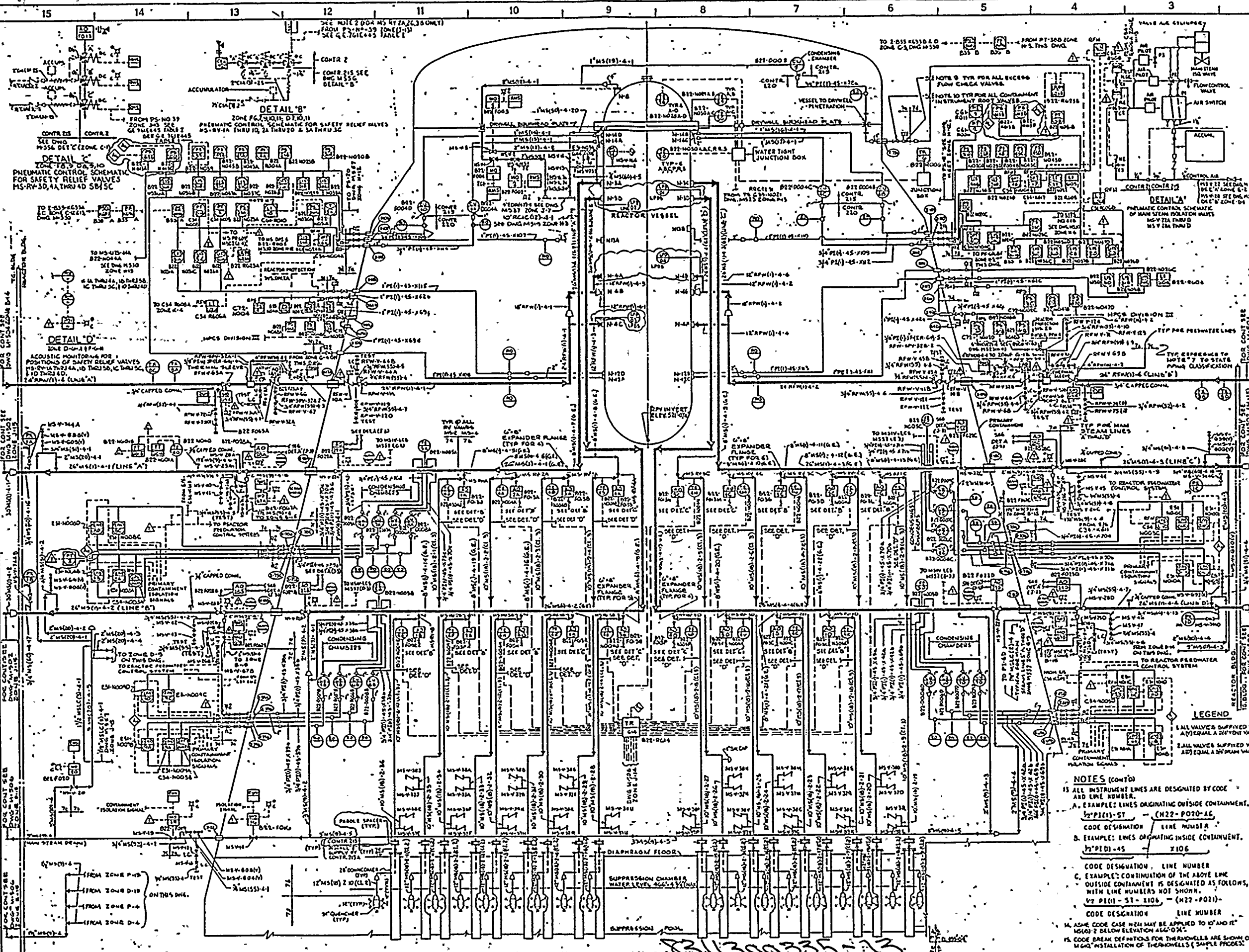
PRC
APERTURE
CARD

SECRET

SECRET
NO
DISTRIBUTION
TO
THE
PUBLIC

SECRET

PRC APERTURE CARD



NOTES

- FOR ALL INSTRUMENT SIGNALS SEE G.E. NUCLEAR BOILER SYSTEM B12-040, DOCUMENT M774E15, TABLE IV
- THIS EQUIPMENT IS NORMALLY CONTROLLED FROM THE MAIN CONTROL ROOM. IF THE MAIN CONTROL ROOM MUST BE VACATED, THIS CONTROL POINT MAY BE ISOLATED AND CONTROL TRANSFERRED TO THE REMOTE SHUTDOWN PANEL, C&P-1001
- (DELETED)
- ALL PIPING SYSTEMS IDENTIFIED BY THE PREFIX "P" SHALL BE SUPPLIED AND INSTALLED BY CONTRACT #120
- (DELETED)
- (DELETED)
- PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE ISOLATED ON THE FLOW DIAGRAMS)
 - PROCESS (FEEDWATER OR STEAM) AND INSTRUMENT PIPING WITHIN THE PRIMARY CONTAINMENT AND OUT THROUGH THE OUTER-MOST ISOLATION VALVES, EXCEPT SAFETY/RELIEF VALVE DISCHARGE.
 - SEISMIC CATEGORY I
 - QUALITY CLASS I
 - CODE GROUP A
 - MAIN STEAM PROCESS PIPING BEYOND THE OUTER-MOST ISOLATION VALVES, EXCEPT BRANCH LINES (DRAINS) BEYOND THE FIRST VALVE AND SAFETY/RELIEF VALVE DISCHARGE AS NOTED.
 - SEISMIC CATEGORY I
 - QUALITY CLASS I
 - CODE GROUP B
 - FEEDWATER PROCESS PIPING BEYOND THE OUTER-MOST ISOLATION VALVES, STEAM PROCESS PIPING (DRAINS) NOT INCLUDED UNDER NOTE 7, AND VENT, DRAIN AND LEAK-OFF PIPING BEYOND THE LAST VALVE.
 - SEISMIC CATEGORY II
 - QUALITY CLASS II
 - CODE GROUP B
 - INSTRUMENT PIPING BEYOND THE OUTER-MOST ISOLATION VALVES, AND INSTRUMENT PIPING CONNECTED TO THE PRIMARY CONTAINMENT, AIR ACCUMULATORS AND ASSOCIATED PIPING OUT THROUGH THE SUPPLY CHECK VALVE, VENT, DRAIN AND LEAK-OFF PIPING 3/4" OR SMALLER OUT THROUGH THE LAST VALVE.
 - SEISMIC CATEGORY I
 - QUALITY CLASS I
 - CODE GROUP B
 - OTHER AIR PIPING, DOWNCOMERS AND SAFETY/RELIEF VALVE DISCHARGE AS NOTED.
 - SEISMIC CATEGORY I
 - QUALITY CLASS I
 - CODE GROUP C
- CODE STAMP NOT REQUIRED FOR DOWNCOMERS
 - SEE SECTION 150, CONTRACT 215
 - LINE 1 3/4" PS(9)-4 LEAVING REACTOR D&P
- SEISMIC CATEGORY II
 - QUALITY CLASS II
 - CODE GROUP B
- PORT DOWNCOMERS AND DOWNCOMERS AS NOTED SHALL BE CLASSIFIED AS FOLLOWS:
 - SEISMIC CATEGORY I
 - QUALITY CLASS I
 - CODE GROUP: B FOR MATERIAL FABRICATION AND INSTALLATION ONLY, CODE STAMP NOT REQUIRED.
- ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
- EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS: P1-ELC-X (PENETRATION NO.).
- CONTAINMENT INSTRUMENTATION ROOT VALVES SHALL BE TAGGED AS FOLLOWS: P1-V-X (PENETRATION NO.).
- THESE INSTRUMENTS ARE LOCATED ON REMOTE SHUTDOWN PANEL.
- ALL INSTRUMENTATION ON THIS DRAWING TO BE IDENTIFIED BY PREFIX "P" UNLESS OTHERWISE NOTED.
- CONTINUED ON LEFT.

LEGEND

1. ALL VALVES SUPPLIED WITH ANTI-SIPHON VALVE

2. ALL VALVES SUPPLIED WITH 10 AND 1/2" EQUAL A 2" DRUM VALVE

NOTES (CONT'D)

13 ALL INSTRUMENT LINES ARE DESIGNATED BY CODE AND LINE NUMBER.

A. EXAMPLE: LINES ORIGINATING OUTSIDE CONTAINMENT.

CODE DESIGNATION LINE NUMBER

P1-PI(1)-51 - (N22-P020)-A5

B. EXAMPLE: LINES ORIGINATING INSIDE CONTAINMENT.

CODE DESIGNATION LINE NUMBER

P1-PI(1)-45 - X106

C. EXAMPLE: CONTINUATION OF THE ABOVE LINE OUTSIDE CONTAINMENT IS DESIGNATED AS FOLLOWS, WITH LINE NUMBERS NOT SHOWN.

V2-PI(1)-51 - X106 - (N22-P021)-

D. EXAMPLE: CASE WHEN MAY BE APPLIED TO "D" AND "E" (N22) 2" BELOW ELEVATION 450' 50"

14. CODE BREAK DEFINITIONS FOR THE REACTORS ARE SHOWN ON M&P INSTALLATION OF THERMOWELLS (SAMPLE PROCESS)

| REV | DATE | DESCRIPTION | BY | CHKD | APP'D |
|-----|---------|-------------------------|------------|------------|------------|
| 1 | 10/1/68 | ISSUED FOR CONSTRUCTION | J. H. BURN | J. H. BURN | J. H. BURN |
| 2 | 10/1/68 | REVISION 1 | J. H. BURN | J. H. BURN | J. H. BURN |
| 3 | 10/1/68 | REVISION 2 | J. H. BURN | J. H. BURN | J. H. BURN |
| 4 | 10/1/68 | REVISION 3 | J. H. BURN | J. H. BURN | J. H. BURN |
| 5 | 10/1/68 | REVISION 4 | J. H. BURN | J. H. BURN | J. H. BURN |
| 6 | 10/1/68 | REVISION 5 | J. H. BURN | J. H. BURN | J. H. BURN |
| 7 | 10/1/68 | REVISION 6 | J. H. BURN | J. H. BURN | J. H. BURN |
| 8 | 10/1/68 | REVISION 7 | J. H. BURN | J. H. BURN | J. H. BURN |
| 9 | 10/1/68 | REVISION 8 | J. H. BURN | J. H. BURN | J. H. BURN |
| 10 | 10/1/68 | REVISION 9 | J. H. BURN | J. H. BURN | J. H. BURN |
| 11 | 10/1/68 | REVISION 10 | J. H. BURN | J. H. BURN | J. H. BURN |
| 12 | 10/1/68 | REVISION 11 | J. H. BURN | J. H. BURN | J. H. BURN |
| 13 | 10/1/68 | REVISION 12 | J. H. BURN | J. H. BURN | J. H. BURN |
| 14 | 10/1/68 | REVISION 13 | J. H. BURN | J. H. BURN | J. H. BURN |
| 15 | 10/1/68 | REVISION 14 | J. H. BURN | J. H. BURN | J. H. BURN |

Also Available On
Aperture Card

ER PART NO. 100-1

BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
CHICAGO, ILL. 60604, U.S.A.

FLOW DIAGRAM
NUCLEAR BOILER-MAIN STEAM SYSTEM
REACTOR BUILDING

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NPPSS-1

DATE: 10/1/68

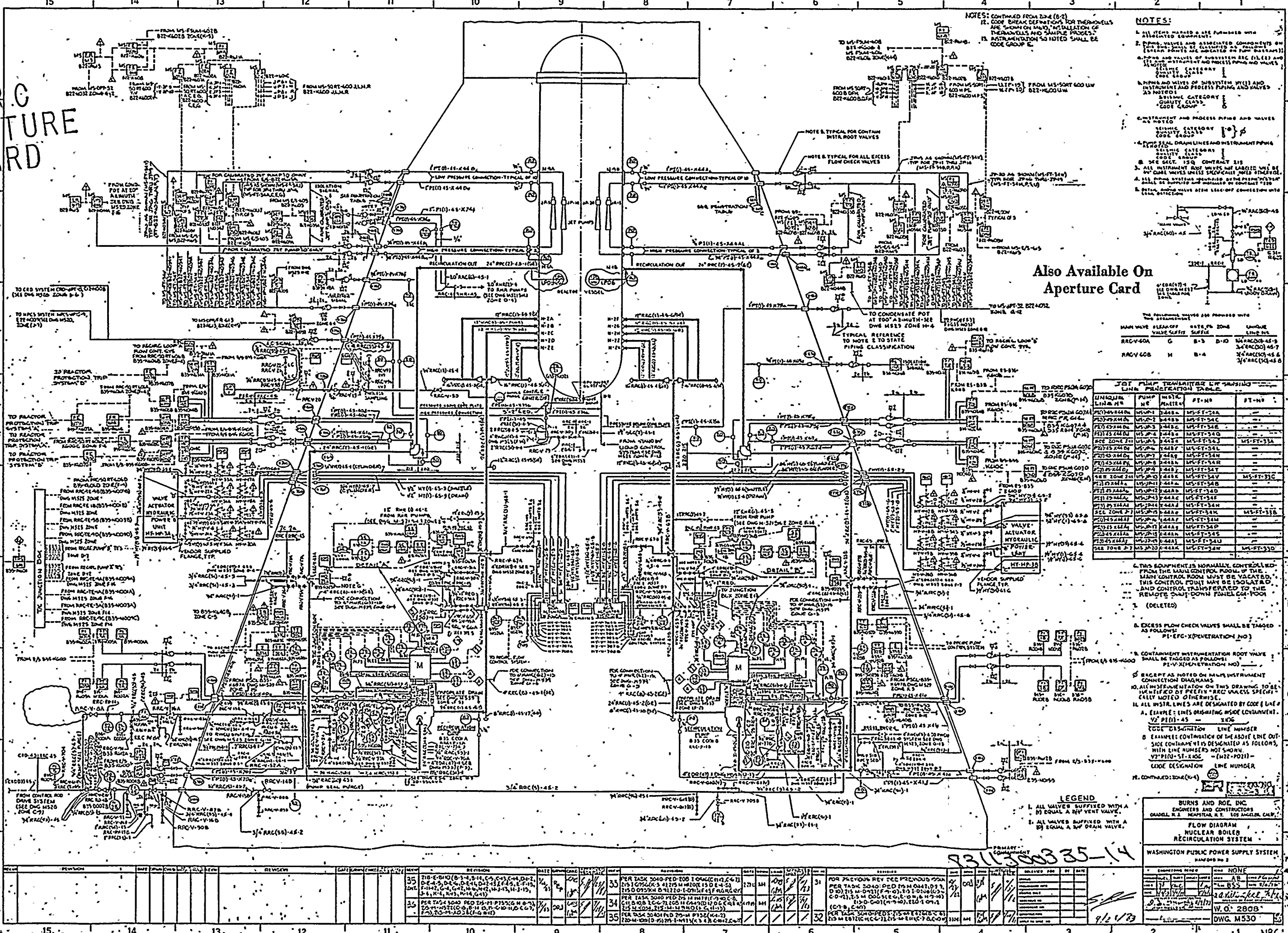
W.O. 2808

DWG. M529

NRC

OVBD
VI EKLOVE
BBQ

APERTURE CARD



**Also Available On
Aperture Card**

| JOI PLUM TRANSMITTER LIF SAUSING
PLANTATION TABLE | | | | | |
|--|-----------|-----------|-----------|-----------|--|
| UNIQUE
LINE# | PUMP
| WELL
| PT-NO | PT-NO | |
| PL01052404 | WS-01 | 2448-0 | MS-FT-22A | — | |
| PL01052405 | WS-02 | 2448-1 | MS-FT-24C | — | |
| PL01052406 | WS-03 | 2448-2 | MS-FT-24E | — | |
| PL11512401 | WS-04 | 2448-3 | MS-FT-24G | — | |
| SEE 2006-241 | WS-05 | 2448-4 | MS-FT-24J | MS-FT-23A | |
| PL11512402 | WS-06 | 2448-5 | MS-FT-24L | — | |
| PL01052407 | WS-07 | 2448-6 | MS-FT-24N | — | |
| PL01052408 | WS-08 | 2448-7 | MS-FT-24W | — | |
| SEE 2006-241 | WS-09 | 2448-8 | MS-FT-24Y | — | |
| PL11512403 | WS-10 | 2448-9 | MS-FT-24V | MS-FT-23C | |
| PL11512404 | WS-11 | 2448-0 | MS-FT-24B | — | |
| PL11512405 | WS-12 | 2448-1 | MS-FT-24D | — | |
| PL11512406 | WS-13 | 2448-2 | MS-FT-24F | — | |
| PL11512407 | WS-14 | 2448-3 | MS-FT-24H | — | |
| PL11512408 | WS-15 | 2448-4 | MS-FT-24K | MS-FT-23B | |
| PL11512409 | WS-16 | 2448-5 | MS-FT-24M | — | |
| PL11512410 | WS-17 | 2448-6 | MS-FT-24P | — | |
| PL11512411 | WS-18 | 2448-7 | MS-FT-24S | — | |
| PL11512412 | WS-19 | 2448-8 | MS-FT-24U | — | |
| 242 2006-241 | WS-20 | 2448-9 | MS-FT-24W | MS-FT-23D | |

6. THIS EQUIPMENT IS NORMALLY CONTROLLED FROM THE MAIN CONTROL ROOM. IF THE MAIN CONTROL ROOM MUST BE VACATED, THIS CONTROL POINT MAY BE ISOLATED AS NOTED ON THE INSTRUMENTATION OF THE REMOTE SHUT DOWN PANEL FOR POOL

1. (DELETED)

B. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS:

PI-ETC-X (PENETRATION NO.)

9. CONTAINMENT INSTRUMENTATION ROOT VALVE SHALL BE TAGGED AS FOLLOWS:

PI-X (X- PENETRATION NO.)

EXCEPT AS NOTED ON MAIN INSTRUMENT CONNECTION DIAGRAM

10. ALL INSTRUMENTATION ON THIS DRAWING TO BE IDENTIFIED BY PREFIX "REC" UNLESS SPECIFICALLY NOTED OTHERWISE.

11. ALL INSTA. LINES ARE DESIGNATED BY CODE # LINE #

A. EXAMPLE: LINES ORIGINATING INSIDE CONTAINMENT.

V2" PI(1)-45 -X406

CODE DESIGNATION LINE NUMBER

B. EXAMPLE: CONTINUATION OF THE ABOVE LINE OUTSIDE CONTAINMENT IS DESIGNATED AS FOLLOWS.

WITH LINE NUMBER NOT SHOWN.

V2" PI(1)-SI-X406 -(412-PI(1))

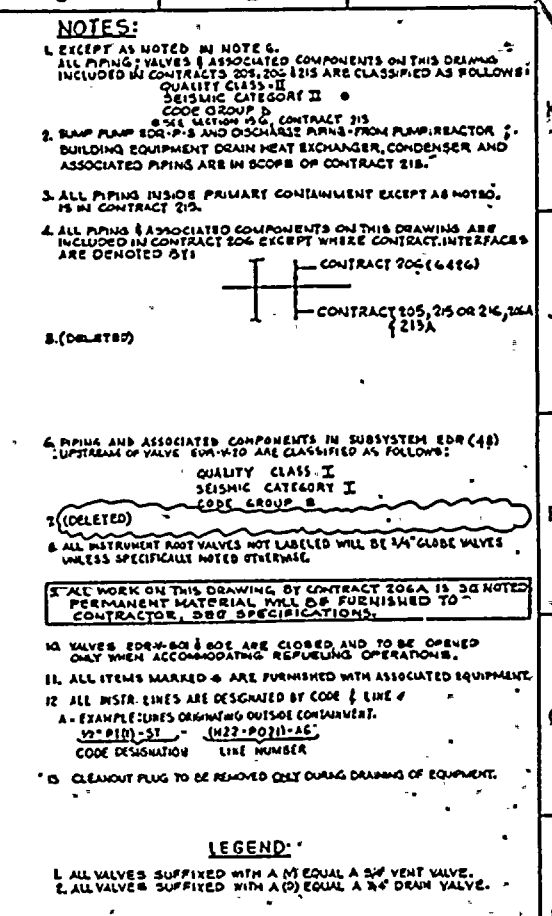
CODE DESIGNATION LINE NUMBER

12. CONTAINER: 204E (U4)


LEGEND
1. ALL VALVES SUFFIX

| | | | | |
|---|----------|---------|----------|-------------------------------|
| <p>BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
ORADLE, R. A. MEMPHIS, RT. 1, LOS ANGELES, CALIF.</p> | | | | |
| <p>FLOW DIAGRAM
NUCLEAR BOILER
RECIRCULATION SYSTEM</p> | | | | |
| <p>WASHINGTON PUBLIC POWER SUPPLY SYSTEM
DRAWING NO. 2</p> | | | | |
| <p>ENGINEERING DATA</p> | | | | <p>REMARKS</p> |
| DATE | BY | CHECKED | APPROVED | <p>None</p> |
| 10/1/58 | J. C. W. | | | <p>Drawn by AR</p> |
| 10/1/58 | J. C. W. | | | <p>Checked by BSS</p> |
| 10/1/58 | J. C. W. | | | <p>Reviewed by W. O. 2808</p> |
| <p>W. O. 2808</p> | | | | <p>DWG. M530</p> |

100-100000

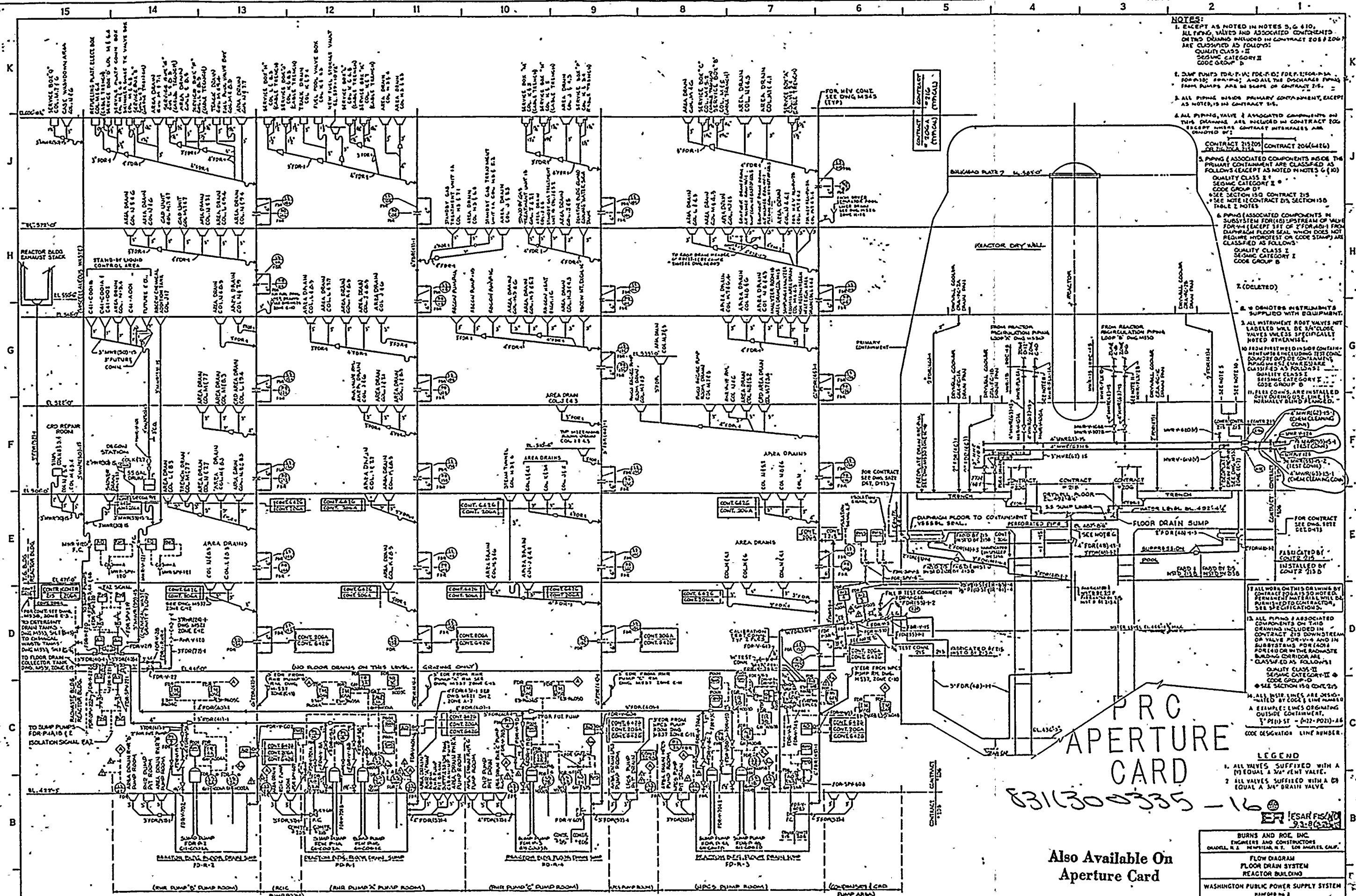


**Also Available On
Aperture Card**

| | | | |
|--|---------------------------------|--|--------------------------|
|  | | PS&A-FC
1-1-6-2-2 | |
| BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
CHAGALL, N. A. HENRIETTA, N. Y. LONG ISLAND, CALIF. | | | |
| FLOW DIAGRAM
EQUIPMENT DRAST SYSTEM
REACTOR BUILDING | | | |
| WASHINGTON PLANT FUEL OIL SYSTEM
DRAWING NO. 2 | | | |
| 2-10-62 10:00 AM REVISED | | NAME NONE | |
| DESIGNED BY
W. C. 2008 | CHECKED BY
W. C. 2008 | DRAWN BY
W. C. 2008 | SCALE
1" = 10' |
| APPROVED BY
W. C. 2008 | DATE
10-1-62 | PROJECT NO.
W. C. 2008 | SHEET NO.
1 |
| TITLE
FLOW DIAGRAM | | W. C. 2008
DWG. M537 | |

[illegible]

100



NOTES:

- EXCEPT AS NOTED IN NOTES 3, 6 & 10, ALL PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DRAWING INCLUDED IN CONTRACT 208 & 209 ARE CLASSIFIED AS FOLLOWS:
QUALITY CLASS II
SEWAGE CATEGORY II
CODE GROUP D
- JUMP PUMPS FOR P.W. FOR P-10; FOR P-2; FOR P-3; FOR P-4; FOR P-5; AND P-6; AND ALL THE DISCHARGE PIPING FROM PUMPS ARE IN SLOPE OF CONTRACT 216.
- ALL PIPING INSIDE PRIMARY CONTAINMENT, EXCEPT AS NOTED, IS IN CONTRACT 216.
- ALL PIPING, VALVE & ASSOCIATED COMPONENTS ON THIS DRAWING ARE INCLUDED IN CONTRACT 208 EXCEPT WHERE CONTRACT INTERFACES ARE INDICATED BY:

CONTRACT 215/208
OR 216/208

CONTRACT 206(126)

- PIPING (ASSOCIATED COMPONENTS INSIDE THE PRIMARY CONTAINMENT ARE CLASSIFIED AS FOLLOWS (EXCEPT AS NOTED IN NOTES 6 & 10)
QUALITY CLASS II
SEWAGE CATEGORY II
CODE GROUP D
● SEE SECTION 15.0 CONTRACT 215
● SEE NOTE 11 CONTRACT 216 SECTION 15.0
TABLE 2 NOTES
- PIPING (ASSOCIATED COMPONENTS IN SUBSYSTEM FOR (16) UPSTREAM OF VALVE FOR #4 (EXCEPT SET OF 2 FOR #4-1 FROM DRAINAGE PUMP SEWAGE WHICH DOES NOT REQUIRE HYDROTEST ON CODE STAMP) ARE CLASSIFIED AS FOLLOWS:
QUALITY CLASS II
SEWAGE CATEGORY II
CODE GROUP B

7. (DELETED)

- DENOTES INSTRUMENTS SUPPLIED WITH EQUIPMENT.
- ALL INSTRUMENT ROOF VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. FROM FIRST WELD INSIDE CONTAINMENT UP TO INCLUDING TEST CONNECTIONS OF CONTRACT 215 PIPING SHALL BE CLASSIFIED AS FOLLOWS:
QUALITY CLASS II
SEWAGE CATEGORY II
CODE GROUP B
11. FLEX COUPLERS ARE INSTALLED ONLY DURING CONSTRUCTION - NORMALLY BLIND FLANGED.

PRC
APERTURE
CARD

8311300335-16

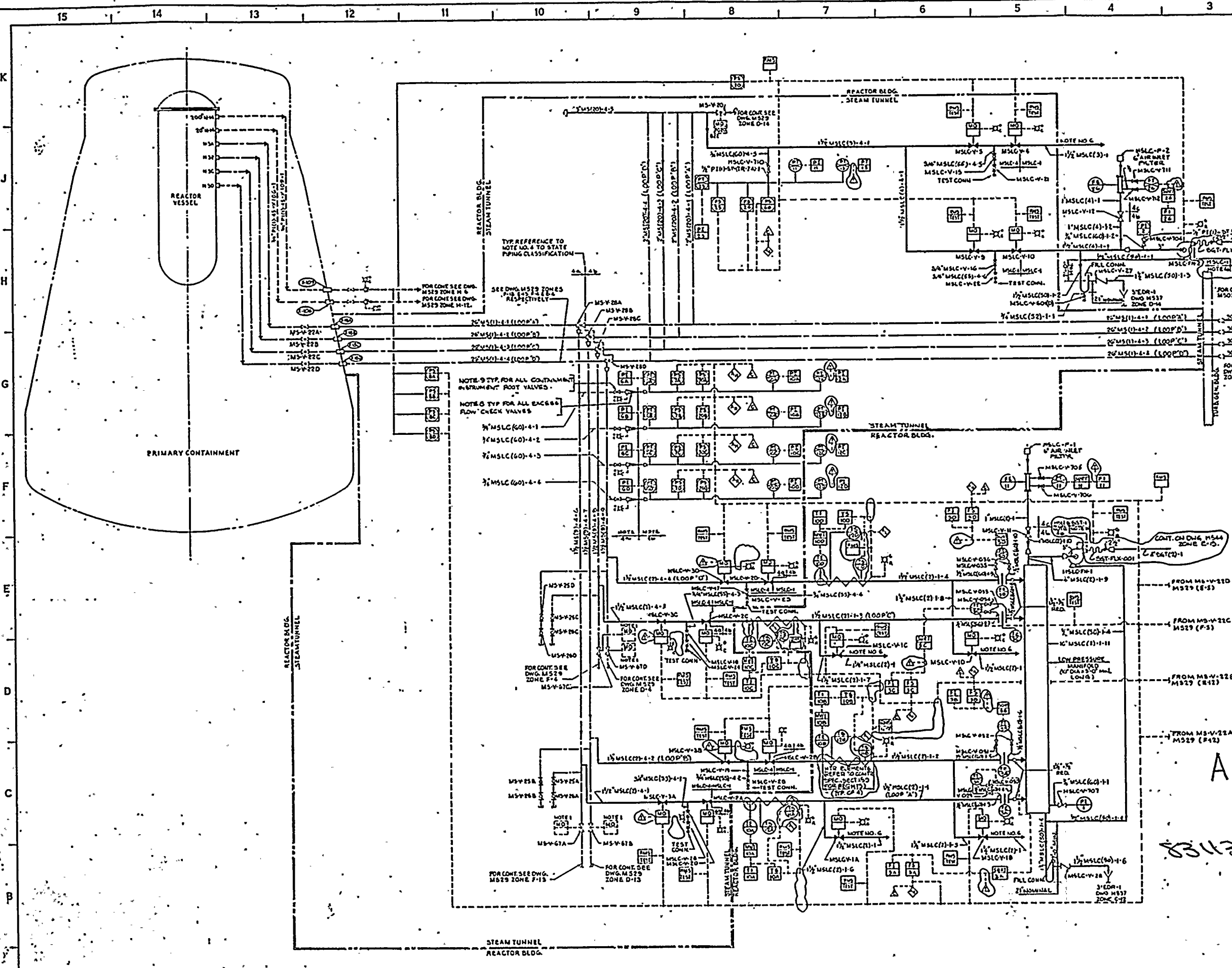
**Also Available On
Aperture Card**

| REVISION | | | | | | | | | | REVISION | | | | | | | | | | REVISION | | | | | | | | | | REVISION | | | | | | | | | |
|----------|----------------------------------|------|------|--------|------|--------|----|----------------------------------|--------|----------|------|----|--------|--------|----------------------------------|------|------|----|--------|----------|------|----------------------------------|------|--------|------|------|--------|----|----------------------------------|----------|------|----|----|--------|--|--|--|--|--|
| DATE | FROM | TO | BY | REASON | DATE | FROM | TO | BY | REASON | DATE | FROM | TO | BY | REASON | DATE | FROM | TO | BY | REASON | DATE | FROM | TO | BY | REASON | DATE | FROM | TO | BY | REASON | | | | | | | | | | |
| 46 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 43 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 40 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 37 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 34 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | | | | | |
| 46 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 44 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 41 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 38 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 35 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | | | | | |
| 46 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 45 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 42 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 39 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | 36 | PER TASK 3040 PED-25 M WTS (F-1) | DATE | FROM | TO | BY | REASON | | | | | |

Page 1

1951

1951



- NOTE:
- (DELETED)
 - (DELETED)
 - ALL PRESSURE AND FLOW INSTRUMENT ROOT VALVES NOT LABELED WILL BE 1/2" GLOBE UNLESS SPECIFICALLY NOTED OTHERWISE.
 - PIPING, VALVES & ASSOCIATED COMPONENTS ON THIS DWG SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE INDICATED ON THE FLOW DIAGRAM):
A) PROCESS AND INSTRUMENT PIPING 3/4" AND LARGER WITHIN THE PRIMARY CONTAINMENT AND OUT THROUGH THE OUTERMOST ISOLATION VALVES SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP A
B) PROCESS & INST. PIPING BEYOND THE OUTERMOST ISOLATION VALVES SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP B
C) AIR INLET PIPING AND COMPONENTS SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP C
D) SEE SECTION 2, CONTRACT 21E
 - SLOPE ALL PIPING 1/8" PER FT. TOWARDS DRAIN BASIN.
 - EXHAUST TO SAFE AREA IN REACTOR BUILDING TO AVOID HAZARD TO PERSONNEL.
 - ALL INSTRUMENTATION ON THIS DWG SHALL BE PROVIDED BY (MFG. CO. & MODEL NO.)
 - BACKFLOW CHECK VALVE SHALL BE TAGGED AS FOLLOWS:
1. BPC-X (BPC INSTRUMENTATION NO.)
2. CONTAINMENT INSTRUMENTATION NO.
3. ROOT VALVES SHALL BE TAGGED AS FOLLOWS: FV-V-X (PENETRATION NO.)
 - ALL INSTRUMENT UNITS ARE DESIGNATED BY CODE AND LINE NUMBER.
EXAMPLE: LINES ORIGINATING OUTSIDE CONTAINMENT
1/2" DI (1)-ST (M22-P021)-AL
CODE DESIGNATION LINE NUMBER
 - DISCHARGE PIPING FROM MSLC-V-1 & MSLC-PH-2 SHALL BE DESIGNATED AS DAT & CLASSIFIED AS FOLLOWS:
SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP D
 - ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO THE ATMOSPHERE WITHIN THE SYSTEM DESIGNATION SHALL BE CLASSIFIED AS CODE GROUP D WITH QUALITY CLASS AND SEISMIC CATEGORY PROVIDED BY TAB APPLICABLE NOTES ON THIS DRAWING.

- LEGEND
- ALL VALVES SUPPLIED WITH A (V) EQUAL A 1/2" VENT VALVE.
 - ALL VALVES SUPPLIED WITH A (D) EQUAL A 1/2" DRAIN VALVE.

Also Available On Aperture Card

PRC
APERTURE
CARD

8311300335 -20

| REVISION | | | | | | | | | | REVISION | | | | | | | | | | REVISION | | | | | | | | | | | | | | |
|----------|---|-------|------|------|-----|---|-------|------|------|----------|---|-------|------|------|-----|--|-------|------|------|----------|---|-------|------|------|-----|---|-------|------|------|-----|---|-------|------|------|
| REV | DATE | BY | CHKD | APPD | REV | DATE | BY | CHKD | APPD | REV | DATE | BY | CHKD | APPD | REV | DATE | BY | CHKD | APPD | REV | DATE | BY | CHKD | APPD | REV | DATE | BY | CHKD | APPD | REV | DATE | BY | CHKD | APPD |
| 15 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 12 | PER TASK 3040 PED 270-T-0704 (B-C-7-E, C-0-7-D-0-E-7) | 11/18 | MA | | 9 | PER TASK 3040 PED 215-M-A-04 (G-2-F-4, J-3-I-0-E-3-A-G-C-4) | 11/18 | MA | | 5 | FOR REV 4 SEE RECORD MAP CARD (C-3-E-7, C-0-7-D-0-E-7) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-M-A-04 (G-2-F-4, J-3-I-0-E-3-A-G-C-4) | 11/18 | MA | | 15 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 12 | PER TASK 3040 PED 270-T-0704 (B-C-7-E, C-0-7-D-0-E-7) | 11/18 | MA | |
| 14 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 11 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 8 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 4 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 14 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 13 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 10 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 13 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 10 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 7 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 3 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 11 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 9 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 6 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 12 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 9 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 6 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 2 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 8 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 5 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 4 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 11 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 8 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 5 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 7 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 3 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 2 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 10 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 7 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 4 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 6 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 9 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 6 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 3 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 5 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 8 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 5 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 2 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 4 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 7 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 4 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 3 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 6 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 3 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 2 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 5 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 2 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 4 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 3 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 2 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |
| 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | | 1 | PER TASK 3040 PED 215-WK-0 (E-4, C-3-C-0-4) | 11/18 | MA | |

FSAR FIG. NO. 3.2-25

BURNS AND ROE, INC.
ENGINEERS AND ARCHITECTS
ORANGE, N.Y. 11762

FLOW DIAGRAM
MAIN STEAM ISOLATION VALVE
LEAKAGE CONTROL SYSTEM
REACTOR BUILDING

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NAT-040 Rev. 2

ENGINEERING REVIEW
DATE: 11/1/77
BY: J. W. B. J.

W. Q. 2808
DWG. M557

