

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 PETERS, J.F. Washington Public Power Supply System  
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*RSO 3/10/90 JFA*

SUBJECT: Rev 6 to Plant Procedures Manual 13.8.2, "Manual Offsite Dose Calculations."

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	NUDOCS-ABSTRACT	1	1	<u>REG FILE</u> 01	1	1
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# WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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## ACKNOWLEDGEMENT OF RECEIPT

DATE: February 22, 1990  
FROM: Laurie Miller-Perez, WNP-2 Plant Administration, M/D 927A  
TO: Document Control Desk, NEC 87  
Organization Controlled Copy Number  
SUBJECT: PROCEDURE APPROVAL/REVISION - PACKAGE NO. 90-57

The attached Procedure(s) is to be inserted into your controlled copy of the Plant Procedures Manual and superseded revisions are to be removed and destroyed.

To verify receipt and inclusion of this Procedure(s), please sign, date, and return this receipt within TEN (10) WORKING DAYS of the date of this IOM.

### Volume 13

see attached memo

Date

Signature of Manual Holder

87  
Control Copy Number

9003020278 900222  
PDR ADOCK 05000397  
P PDC

Attachment D

A045  
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PROCEDURE NUMBER	REVISION NUMBER	PAGE NUMBER
1.2.4	11	1.2.4-12 of 15



DISTRIBUTION - VOLUME 13

<u>Control Copy No.</u>	<u>Location</u>	<u>Mail Drop</u>
2	Control Room	927A
3	Shift Manager	927A
4	Plant Manager	927M
5	Licensed Training	1022
6	Simulator	1034
7	Technical Manager	988U
8	Operations Manager	9270
9	HP/Chemistry Manager	927K
10	Maintenance Manager	927S
11	Plant Admin. Manager	927S
12	Engineering Services	981G
17	Central Training Services (Sec. 13.14)	1027
20	Chemistry Supervisor	927A
21	Health Physics Supervisor	927A
24	Plant QA/QC Manager	956B
25	Project Manager, Bechtel	964D
26	Region V, NRC	****
27	Security Programs Manager	1021
28	Region V, NRC	****
29	WNP-3 Technical Library	700
30	E.O.F. Records Room	1020
31	TSC Emergency Response/Cabinet	927A
33	Admin. Security Specialist	927A
34	HP Technicians Office	927AS
35	Resident Inspector	901A
36	Emergency Preparedness Program	1020
37	Mgr. of Emerg Plann & Environ Prog	1020
41	WNP-2 Security	913
42	Maintenance Training	184
46	IS&FP	982B
47	Director Engineering	520
49	Security Training/Evaluation	1021
50	Plant Emergency Director	927A
51	Energy Fac. Site Eval. Council	#
52	Division of Emergency Management	#
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	913
59	WNP-2 Security	913
60	WNP-2 Security	913
61	Operations Support Center/Cabinet	Lunchroom
63	Emergency Training	1020
64	Radwaste Control Room	927A
66	Simulator, Shift Manager	1034
68	Remote Shutdown Room (13.4.1)	927A
69	EOF Communications Center (EOFCC)	1021
73	Dept. Soc. & Health Serv.	#
74	Dept. Soc. & Health Serv.	#
75	Dept. Soc. & Health Serc.	#

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80	Plant Records	927A
82	EOF Decision Center	1020
83	MUDAC	1020
86	Simulator, Shift Technical Advisor (STA)	1034
87	Document Control Desk, NRC	Wash D.C.
90	Corporate Communications	325
91	Emergency Preparedness Program	1020
92	Emergency Preparedness Program	1020
93	Radiological Programs	1020
94	Offsite Agency Center	1020
95	Security Decision Center	1020
96	Crisis Management Center	325
97	Technical Data Center	1020
98	Corporate Library	330
102	Telecommunication Services	1032
104	Emergency Preparedness Program	1020
105	NRC Emergency Response	1020
106	Emergency Preparedness Program	1020
114	Emergency Training	1020
123	Planning & Scheduling	994E
126	Asst. Managing Director for Operations	1023
127 - 132	Licensed Training	1020
133	Emergency Planning	1020
N/A	Kathy McCullough (Memo Only)	917Y
	Plant Admin. w/o	927A



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# INTEROFFICE MEMORANDUM

DISTRIBUTION: MAIL DROP:

DATE: February 22, 1990  
TO: Distribution  
FROM: (J.F. Peters, *J.F. Peters* Plant Administration, WNP-2 (927S))  
SUBJECT: WNP-2 PLANT PROCEDURES MANUAL - VOLUME 13  
DISTRIBUTION PACKAGE NO. 90-57

☐ WNP-1 FILE \_\_\_\_\_  
☐ WNP-2 FILE \_\_\_\_\_  
☐ WNP-3 FILE \_\_\_\_\_  
☐ WNP-4 FILE \_\_\_\_\_  
☐ WNP-5 FILE \_\_\_\_\_  
☐ HGP FILE \_\_\_\_\_  
☐ PKWD FILE \_\_\_\_\_  
☐ LEGAL FILE \_\_\_\_\_  
☐ ADMIN FILE \_\_\_\_\_

REFERENCE: PPM \*1.2.4

Due to an editorial change, please replace the following pages in your  
Volume 13 Plant Procedures Manual:

<u>Procedure</u>	<u>Rev</u>	<u>Title</u>	<u>Page No.</u>
13.8.2	6	Manual Offsite Dose Calculations	6,7,8 & 13 of 18

JFP/lmp

Attachments



# CONTROLLED COPY

## OFFSITE DOSE CALCULATION DATA SHEET

DATE: \_\_\_\_\_ (1)  
TIME: \_\_\_\_\_ (2)  
NAME: \_\_\_\_\_ (3)  
CALCULATION: \_\_\_\_\_ (4)

A. Release Point (RX Bldg, DW, TG, RW)  
(Y or N)

REACTOR BLDG	DRYWELL	TURBINE BLDG	RADWASTE BLDG
_____	_____	_____	_____

B. Meteorology

1. Stability Class (A-G)

or  $\Delta T / \Delta Z$

or

°C/100m

Degrees

2. Distance Downwind  
(1.2, 2.0, 5.0, 10.0 Miles)

Miles

3. Wind Speed

MPH

4. Wind Direction (From - To)

Degrees

C. Time Since Reactor Shutdown

Minutes

D. Stand By Gas Treatment  
System (SGTS) Efficiency

%

E. Release Point Flow Rate (CFM)

CFM CFM CFM CFM

F. Source Term-Radiation Monitors,  
Field Data or Sample Results  
(R, F, or S)  
(If source term is based on sample  
results complete attached sheet)

1. Radiation Monitor Reading

Reactor Bldg	Turbine Bldg	Radwaste Bldg
_____	_____	_____

a. High Range Elevated Release  
Point (R/Hr)

R/hr

XX

XX

b. Intermediate (extended)  
Range Noble Gas Monitor (PMU)

PMU

PMU

PMU

c. Low Range Noble Gas Monitor  
(CPM)

CPM

CPM

CPM

Attachment A  
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13.8.2

REVISION NUMBER

6

PAGE NUMBER

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# CONTROLLED COPY

## OFFSITE DOSE CALCULATION DATA SHEET (Continued)

- |   | Reactor<br>Bldg | Turbine<br>Bldg | Radwaste<br>Bldg |      |
|---|-----------------|-----------------|------------------|------|
| 1. Radiation Monitor Reading  |                 |                 |                  |      |
| d. Drywell LOCA Rad Monitor<br>(CMS-RIS-27E)                                      | _____ R/hr      | XX              | XX               | (18) |
| e. Drywell LOCA Rad Monitor<br>(CMS-RIS-27F)                                      | _____ R/hr      | XX              | XX               | (19) |
| 2. Field Data   |                 |                 |                  |      |
| a. Plume Centerline Dose Rate   | _____ mR/hr     | at              | _____ miles      |      |
| b. Plume Centerline Air Sample at<br>(Complete attached<br>Air Sample Data Sheet) |                 |                 | _____ miles      |      |
| G. Release Duration (Minutes)   | _____ min       |                 |                  | (20) |

Attachment A  
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13.8.2

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6

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## SAMPLE RESULTS FOR GASEOUS RELEASE POINTS

(CONCENTRATIONS IN  $\text{Ci}/\text{M}^3$  or  $\mu\text{Ci}/\text{CM}^3$ )

NUCLIDE	REACTOR BUILDING PRE-SGTS _____ POST SGTS _____	DRYWELL	TURBINE BUILDING	RADWASTE BUILDING PRE-HEPA _____ POST-HEPA _____	PLUME CENTER LINE AT _____ MI
Kr-83M					
Kr-85M					
Kr-85					
Kr-87					
Kr-88					
Kr-89					
Xe-131M					
Xe-133M					
Xe-133					
Xe-135M					
Xe-135					
Xe-137					
Xe-138					
I-131					
I-132					
I-133					
I-134					
I-135					

Attachment A-1  
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## SUMMARY OF EDPs OFFSITE DOSE CALCULATIONS

Dist (mi)	Whole Body Dose Rate (REM/Hr)	Whole Body Integrated Dose (REM)	Thyroid Dose Rate (REM/Hr)	Thyroid Dose (REM)	Plume Transit Time (Hrs)
1.2					
2.0					
5.0					
10.0					
Other					

Time Release Started: \_\_\_\_\_

Completed By: \_\_\_\_\_  
(Name)

### Attachment C

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