WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

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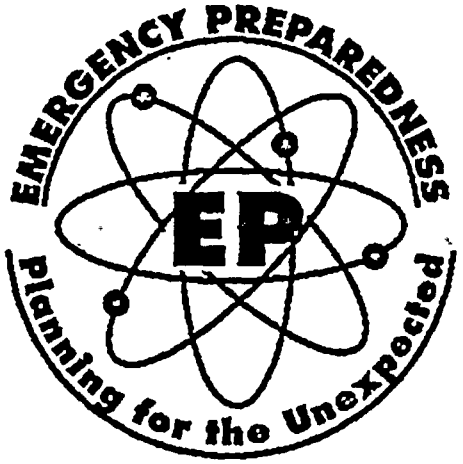

EXERCISE '93

EXERCISE DIRECTOR:

RON UTTER

EXERCISE COORDINATORS:

PAT BAGAN - *Scenario*
TERRY CHRISLER - *Health Physics Data*

SCENARIO AUTHORS:

Pat Bagan - *Scenario Script, Situational Data, Initial Conditions & Messages*
Terry Chrisler - *Health Physics Data, Meteorology, Radiological & Contamination Data*
OJ Brooks & Ed Neasham - *Scenario Development & Review*

EXERCISE 93
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NOTE: Center specific drill packages include all information listed in the General Information section and the message/data sheets, timeline worksheet, evaluation criteria worksheets and evaluator logs applicable to that center.

EXERCISE '93 SCHEDULE

February 1993

MONDAY

February 15

PRESIDENT'S DAY

February 22

11:30 Player Orientation Mtg-GSB Conf. Room
13:00 Player Orientation Mtg-PSF Auditorium
14:30 Player Orientation Mtg-MPF Auditorium
15:30 NRC Entrance
22:15 Security Player Orientation-Bldg #13

TUESDAY

February 16

08:30 Cntlr/Eval Scenario Mtg--PSF Rm 120

February 23

CONDUCT EXERCISE '93
03:00 Op's/HP Player Orientation Mtg-Simulator
10:00 Player/Evaluator Critique-Emergency Center

WEDNESDAY

February 17

February 24

07:30 Cntlr/Eval Critique Meeting-PSF Rm 141
12:00 Key Cntlr/Eval & EP Mtg-PSF Rm 141

THURSDAY

February 18

February 25

08:00 Corporate Critique Presentation
14:00 NRC Exit

FRIDAY

February 19

08:30 Final Ctlr/Eval Pre-Exercise Mtg-PSF Rm 141

February 26

February

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

March

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

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 93			PAGE
SHEET NO. E1.a	RESPONSIBLE CONTROLLER (LOCATION)	"Control Room (Simulator), MUDAC & TSC"	
REAL TIME OF: 03:00	TO: 12:00	DRILL TIME OF: 00:00	TO: 09:00
ASSOCIATED WITH MESSAGES		INFORMATION APPLIES TO	Meteorological Data - Weather Forecast

A. Forecast 0000-1200

Walla Walla Valley forecast valid until 12:00 noon PST, Tuesday February 23, 1993, from the National Weather Service in Pendelton, OR (or Seattle, Washington) as of 00:00 a.m. PST February 23, 1993

Temperatures this morning are expected to be in the mid 30 degree range with warming into the mid 40's by late morning. Light to moderate west through southwest winds and gusty mechanical turbulance beginning mid morning and remaining throughout the remainder of the day.

It will be partly to mostly cloudy today. Winds will be light early morning becoming moderately gusty by mid morning.

B. Controller Information

NOTE: For CONTROLLERS-- If Battelle is called for the weather, use the backup data from Sheet E1d.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 93		PAGE
SHEET NO. E1.b	RESPONSIBLE CONTROLLER (LOCATION) Control Room (Simulator), MUDAC & TSC	
REAL TIME OF: 03:00 TO: 12:00	DRILL TIME OF: 00:00 TO: 09:00	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO Meteorological Data - Stability Classification Table	

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

Stability Classification	Pasquill Categories	Temperature Change With Height (Degrees °C/100m)
Extremely Unstable	A	$\Delta T/\Delta z \geq$ -1.9°
Moderately unstable	B	-1.9° $\geq \Delta T/\Delta z \geq$ -1.7°
Slightly unstable	C	-1.7° $\geq \Delta T/\Delta z \geq$ -1.5°
Neutral	D	-1.5° $\geq \Delta T/\Delta z \geq$ -0.5°
Slightly stable	E	-0.5° $\geq \Delta T/\Delta z \geq$ 1.5°
Moderately stable	F	1.5° $\geq \Delta T/\Delta z \geq$ 4.0°
Extremely stable	G	4.0° $\geq \Delta T/\Delta z_v \geq$

B. Stability Class vs. Sigma Θ Theta Signal

Stability Classification	Pasquill Categories	Temperature Change With Height (Degrees °C/100m)
Extremely Unstable	A	sigma Θ $\geq$ 22.5°
Moderately unstable	B	22.5° $\geq$ sigma Θ $\geq$ 17.5°
Slightly unstable	C	17.5° $\geq$ sigma Θ $\geq$ 12.5°
Neutral	D	12.5° $\geq$ sigma Θ $\geq$ 7.5°
Slightly stable	E	7.5° $\geq$ sigma Θ $\geq$ 3.8°
Moderately stable	F	3.8° $\geq$ sigma Θ $\geq$ 2.1°
Extremely stable	G	2.1° $\geq$ sigma Θ

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	Exercise 93		*PAGE* 1 of 2
SHEET NO.	E1.c	*RESPONSIBLE CONTROLLER (LOCATION)*	Control Room (Simulator), MUDAC & TSC
REAL TIME OF:	03:00 *TO:* 12:00	*DRILL TIME OF:*	00:00 *TO:* 09:00
ASSOCIATED WITH MESSAGES		*INFORMATION APPLIES TO*	*Meteorological Data- Primary and Backup*

Primary Met Tower Readings

Time	Wind Speed (MPH)	Direction Wind From Degrees	Pasquill Category	Delta T ▲T/▲z Degrees °C/100m	Sigma Θ Theta (Degrees)	Temp. Degrees °C	Stability Classification
0000-0300	1	226-224	F	2.0	2.0	7.2	Moderately Stable
0400-0600	1	226-224	F	2.0	2.0	7.2	Moderately Stable
0600-0700	2	226-224	F	2.0	2.0	7.2	Moderately Stable
0700-0800	2	228-222	E	0.5	4.0	7.2	Slightly Stable
0800-0900	2	229-222	E	0.5	5.0	7.8	Slightly Stable
0900-1000	3	231-219	E	0.0	6.0	8.9	Slightly Stable
1000-1100	6	216-234	B	-1.8	18.0	10.0	Moderately Unstable
1100-1200	6	216-234	B	-1.8	18.0	11.1	Moderatley Unstable
1200-1300	6	215-235	B	-1.8	20.0	12.2	Moderately Unstable
1300-1400	8	215-236	B	-1.9	21.0	12.8	Moderately Unstable
1400-1500	8	215-235	B	-1.9	20.0	14.4	Moderately Unstable
1500-1600	6	217-233	C	-1.7	16.0	15.5	Slightly Unstable
1600-1700	6	218-232	C	-1.6	14.0	15.5	Slightly Unstable

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	Exercise 93		PAGE 2 of 2
SHEET NO.	E1.d	RESPONSIBLE CONTROLLER (LOCATION)	Control Room (Simulator), MUDAC & TSC
REAL TIME OF:	03:00 TO: 12:00	DRILL TIME OF:	00:00 TO: 09:00
ASSOCIATED WITH MESSAGES		INFORMATION APPLIES TO	Meteorological Data- Primary and Backup

Backup Met Tower Readings

Time	Wind Speed (MPH)	Direction Wind From Degrees	Pasquill Category	Delta T ▲T/▲z Degrees °C/100m	Sigma Θ Theta (Degrees)	Temp. Degrees °C	Stability Classification
0000-0300	1	226-224	F	2.0	2.0	7.2	Moderately Stable
0400-0600	1	226-224	F	2.0	2.0	7.2	Moderately Stable
0600-0700	2	226-224	F	2.0	2.0	7.2	Moderately Stable
0700-0800	2	228-222	E	0.5	4.0	7.2	Slightly Stable
0800-0900	2	229-222	E	0.5	5.0	7.8	Slightly Stable
0900-1000	3	231-219	E	0.0	6.0	8.9	Slightly Stable
1000-1100	6	216-234	B	-1.8	18.0	10.0	Moderately Unstable
1100-1200	6	216-234	B	-1.8	18.0	11.1	Moderatley Unstable
1200-1300	6	215-235	B	-1.8	20.0	12.2	Moderately Unstable
1300-1400	8	215-236	B	-1.9	21.0	12.8	Moderately Unstable
1400-1500	8	215-235	B	-1.9	20.0	14.4	Moderately Unstable
1500-1600	6	217-233	C	-1.7	16.0	15.5	Slightly Unstable
1600-1700	6	218-232	C	-1.6	14.0	15.5	Slightly Unstable

DETAILED SCENARIO
EXERCISE 93

INITIAL CONDITIONS

The date is February 23, 1993 seven months after the R-7 outage. The plant is running at 100% power. Operations is currently preforming RCIC Quarterly surveillance (7.4.7.3.3.b). Service Water pump B is running and RHR pump B is in suppression pool cooling to support the surveillance. All other conditions are normal.

The temperature is in the low to mid 30's warming to the low 40's later in the day. Winds are light and from the west.

SCENARIO

At 0340 a .1g earthquake is experienced and the "Minimum Seismic Earthquake" annunciator alarms. A number of shock lights illuminate on the Seismic Panel. This is an UNUSUAL EVENT.

The motion of the quake dislodges bus-work in SM-8 causing a short to ground which severely damages the switch-gear. This means there is a loss of Division 2 AC power.

The earthquake will also cause a rupture disk on the exhaust line of the running RCIC turbine to fail. This will pressurize a pressure switch giving the RCIC system an isolation signal. The RCIC turbine trips but the containment isolation valves fail to close. Inboard isolation valve (RCIC-V-63) due to a loss of power, and outboard isolation valve (RCIC-V-8), in mid position, due to a bent stem. This prompts the operating crew to announce an ALERT due to "Reactor Coolant Pressure Boundary Lines Fail To Isolate When Design Logic Met".

The loss of SM-8 puts the plant in a 2 hour LCO (3.8.2.1.b) for loss of Division 2 battery charger. This and the earthquake damage may cause the Shift Manager to shut the plant down.

Soon after the earthquake the BPA will call the control room and request that WNP-2 stay on line as long as possible. WNP-2 is the only power source for the region because of downed power lines and other grid disturbances. The BPA requests we stay at maximum power until additional sources of power are returned to the grid. A default message to the Shift Manager and oncoming PED will ensure the plant stays at 100% power until the next event.

At 0630 a .075g after shock will occur. This will cause a loss of 230kv Startup Power to TR-S and a spurious trip of the Main Generator output breakers. This will cause a Turbine\Generator trip and resulting reactor SCRAM.

The reactor will be shutdown but several rods will not be completely inserted. This is technically an ATWS (Anticipated Transient Without SCRAM) and will drive the operating crew into the ATWS EOP's.

This after shock will cause a RCIC steam line break downstream of RCIC-V-8 (near the TIP room). Steam will flow from the break to the Reactor Building and out the running train of Standby Gas Treatment.

Since there are no adequate "Outside The Shroud" injection systems available for makeup to the reactor a cooldown will not be performed and pressure will be maintained (800 - 1000 psig). This means steam at high pressure will continue to flow into the Reactor Building.

Because of the loss in power there will be a loss of Primary Containment cooling which will cause Containment temperature and pressure to rise. When pressure rises to 1.68 psig an auto start signal is sent to the HPCS Diesel. The diesel will start and then trip on overspeed due to a failed speed signal to the governor.

At 0700 level in the reactor slowly drops until two Area Radiation Monitors (ARM) exceed their "Maximum Safe Operating Values" at which time the reactor will be "Emergency Depressurized" by opening seven Safety Relief Valves (SRV's). The rapid loss of steam through the SRV's will cause the reactor water level to decrease quickly.

At 0705 as level in the reactor drops and cannot be maintained above -192 inches the remaining "Inside The Shroud\Low Quality Systems" will be lined up for injection into the reactor.

A GENERAL EMERGENCY will be declared due to "Loss Of Two Barriers And Potential Loss Of Third".

When RHR pump A (LPCI A) is lined up to the reactor it's injection valve (RHR-V-42A) will not open due to the disk being jammed into the seat.

When LPCS pump is lined up for injection to the reactor the pump breaker will trip open or if the pump is started the pump breaker will fail to close. This will be due to a minor breaker problem.

The level in the reactor will continue to drop uncovering the core causing fuel temperature to rise.

At 0725 the breaker problem with LPCS pump will be fixed and the pump started. The large amount of cold water injected by the LPCS system on to the hot fuel will cause thermal stress resulting in cladding damage.

The LPCS pump will return reactor level to above Top Of Active Fuel.

The release through the RCIC steam line break will rapidly diminish as pressure in the reactor is lost.

At about 0900 a shift change will occur with the oncoming emergency team.

At about 1000 terminate Exercise 93.

CASUALTY CONTROL

Casualty control after the initial earthquake will consist of:

- Assessing the damage to SM-8 (will not be returned to service for remainder of exercise)

  Attempting to close RCIC-V-8 (will not close for remainder of exercise)

  Possibly finding an alternate power supply to RCIC-V-63 (if re-energized breaker will trip due to internal fault in valve motor)

  In addition tours of the plant will be conducted to determine if there is any other earthquake damage.

Casualty control after the second earthquake will consist of:

- Isolating the steam leak (RCIC-V-8 and RCIC-V-63 will not close)

  Repairing HPCS Service Water pump in order to return HPCS diesel and pump to service

  Open RHR-V-42A (valve will not be able to open until LPCS pump has returned reactor water level to above -161 inches)

  Repairing LPCS pump breaker (will allow breaker operation after core uncovered appropriate amount of time for fuel temperature to increase)

  Lining up Firewater to Condensate Crosstie for possible injection to reactor vessel

TIME LINE SUMMARY
EXERCISE 93

TIME	ACTIVITY
0330	Start Exercise 93 , 100% Power, RCIC Surveillance In Progress.
0340	Minimum Seismic Earthquake (.1 g).
	SM-8 Overcurrent Trip (Bus Damage).
	RCIC Isolation Signal with RCIC-V-63 and RCIC-V-8 Failing Open.
0345	ALERT Reactor Coolant Pressure Boundary Fail To Isolate When Design Logic Met.
	BPA Dittmer Calls And Requests WNP-2 Stay On Line As Long As Possible Due To Loss Of Several Dams In The Region And Power Distribution Lines Down Due To An Earthquake.
0630	Minimum Seismic Earthquake (.075 g).
	Loss 230 kv to TR-S.
	RCIC Steam Line Breaks Just Down Stream Of RCIC-V-8 Causing Unisolatable Leak To Reactor Building.
	Main Generator Trip / Reactor Scram.
	Several Rods Fail To Completely Insert. ATWS (Anticipated Transient With Out SCRAM).
	HPCS Diesel Trips Rendering HPCS-P-1 Inoperable
0700	Emergency Depressurize When Two ARM's Exceed Maximum Safe Operating Values
0705	Reactor Water Level Less Than -192 Inches.
	GENERAL EMERGENCY Loss Of Two Barriers, Potential Loss Of Third.
	LPCS-P-1 Breaker Trips (Or Won't Close).
	Start RHR-P-2A, Injection Valve RHR-V-42A Won't Open.

0725	LPCS-P-1 Back In Service, Injecting To Reactor Vessel.
	Thermal Shock To Fuel, Fuel Damage Occurs (Gap Release).
0730	Reactor Water Level Above Top Of Active Fuel.
0900	Shift Change.
1000	Terminate Exercise 93.

OBJECTIVES & LIMITATIONS
EXERCISE '93

A. SCOPE

The primary purpose of this Exercise, scheduled for February 22/23, 1993 is to demonstrate effective management of the emergency and plant reentry operations with efficient coordination and communications between the activated Supply System emergency centers; Control Room (simulator), Operations Support Center (OSC), Technical Support Center (TSC), the Emergency Operations Facility (EOF) and the Joint Information Center (JIC). The exercise will be characterized by required response to an emergency situation that will involve classification, notification, center activation, team deployment, accident prognosis and mitigation.

Two other major purposes of this Exercise are to conduct an "off-hours" exercise as required to be demonstrated once every six years by NuReg-0654, and to conduct a shift change of designated positions in the Supply System Emergency Response Organization.

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

B. OBJECTIVES AND LIMITATIONS

The Objectives and Limitations are divided into two major sections. The first section describes the General Objectives and Limitations which are applicabe to the Supply System and the various offsite agencies. The second section, titled 'Facility Specific Objectives' reflects NRC standardized objectives which are applicabe to specific emergency response facilities at WNP-2.

OBJECTIVES & LIMITATIONS
EXERCISE '93

GENERAL OBJECTIVES

SUPPLY SYSTEM General Objectives and Limitations

1) To demonstrate the ability of the Emergency Response Organization to respond to an "off-hours" emergency situation and to conduct a shift change of the Supply System emergency response personnel *(this is a NuReg 0654 six-year objective).*

2) To provide Supply System personnel with the opportunity to participate interactively with the State and County Offsite Response Organizations as well as with US-DOE RL Hanford Site operations.

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

4) To demonstrate the use by Supply System personnel of plant parameter type Emergency Action Levels (EAL's).

Limitations

1) The Primary Access Point and Alternate Access Point will remain functional for routine plant operations; Actual security is not to be jeopardized.

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

3) Operations and certain Security personnel playing in the Exercise will be individuals specifically predesignated as participants.

4) The Control Room will be exempted from Exercise play; the CR Simulator will serve in its stead. Not all CR functions are simulated in the CR Simulator. The main exceptions are listed, but not limited to the following:
   - No Secondary Alarm Station
   - No functional ENS to the NRC
   - Access is not limited
   - Select Balance-of-Plant equipment is not simulated
   - Certain divisional equipment is simulated for one, but not both divisions

5) No Protected Area or Exclusion Area Evacuation will be demonstrated during this Exercise (Exclusion Area sirens will not be activated).

OBJECTIVES & LIMITATIONS
EXERCISE '93

6) No relocation of major emergency center or use of alternate emergency center will be demonstrated during this Exercise.

7) First and second shift players will be pre-designated.

8) Shift change will not be demonstrated by the Simulator staff.

9) Shift change within the emergency centers will be limited to the following emergency positions for that center:

<u>TSC</u>
PED
RPM
TSC Director
Admin. Manager
Plant/NRC Liaison
Ops. Manager
Core Thermal Eng.
Mechanical Eng.
Electrical Eng.
Computer Eng.

<u>MUDAC</u>
REM
Field Team Dispatcher
Env. Field Teams
Dose Projection HP
MUDAC Coordinator
Field Team Coord.
HPC Coordinator

<u>JIC</u>
JIC Director

<u>OSC</u>
OSC Director
Accountability Coord.
Lead HP
Electrical Craft Lead
Mechanical Craft Lead
I & C Craft Lead

<u>SSDC</u>
Recovery Manager
Security Manager
Site Support Manager
EOF PIO

<u>TDC</u>
TDC Director
Fuels Assessment Eng.
Plant Systems Assessment Eng.
Electrical/I&C Eng.

<u>EOFCC</u>
EOFCC Coordinator

WASHINGTON STATE General Objectives and Limitations

No general objectives or limitations have been identified for Washington State.

OBJECTIVES & LIMITATIONS
EXERCISE '93

OREGON STATE General Objectives and Limitations [1]

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

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

BENTON/FRANKLIN COUNTY General Objectives and Limitations

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

US-DOE (RL) General Objectives and Limitations

1) Provide RL support to the WNP-2 Emergency Operations Facility and the MUDAC.

2) Provide RL/contractor support to the Supply System Joint Information Center.

Limitations

1) RL/RL Contractor involvement in this exercise will be limited to those resources identified in the RL Exercise Scope statement *(not a part of this document)*.

2) Hanford Site safety or security shall not be degraded for the sake of this exercise. All safety and security requirements and procedures shall be complied with during the exercise. This shall include proper entry and exit out of radiologically controlled areas.

3) The Patrol Operations Center (POC) business number, 373-3800, shall be used in lieu of 811. When using this number in lieu of 811, the caller must identify the communication as an exercise message.

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[1] The objectives for Oregon State contained within this document are for training and scenario development purposes only.

OBJECTIVES & LIMITATIONS
EXERCISE '93

FACILITY SPECIFIC OBJECTIVES

CONTROL ROOM

1. Demonstrate the ability for the Shift Manager and the control room operators to recognize abnormal events, determine plant conditions and bring the plant into a safe shutdown mode.

2. Demonstrate the ability of the control room operators to correctly implement the immediate actions of the Emergency Plan Implementing Procedures.

3. Demonstrate the ability of the control room operators to classify the emergency using the Emergency Action Levels (EALs) and determine the necessary onsite and offsite protective actions.

4. For a Site Area or General Emergency, demonstrate the ability of the control room to evacuate nonessential personnel and initiate protective actions for all personnel remaining on site.

   Limitation: No Protected Area or Exclusion Area evacuation will be demonstrated during this Exercise.

5. Demonstrate the ability of the control room to promptly notify onsite personnel of emergency events, conditions or actions.

6. Demonstrate the ability of the control room to promptly notify offsite officials of emergency events, conditions or actions.

7. Demonstrate the ability to make Secondary Alarm Station (SAS) and NRC notifications in a timely manner.

8. Demonstrate the timely and systematic transfer of the Plant Emergency Director (PED) duties.

TECHNICAL SUPPORT CENTER (TSC)

1. For Alerts, Site Area and General Emergencies, demonstrate that the TSC can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency.

2. Demonstrate the ability of the TSC to assess plant conditions and determine the proper emergency classification.

OBJECTIVES & LIMITATIONS
EXERCISE '93

3. Demonstrate the ability of the TSC to assess and direct actions to mitigate the consequences of an emergency.

4. Demonstrate the ability of the TSC to determine the necessary protective actions for onsite and offsite personnel.

5. Demonstrate the ability of the TSC to promptly notify onsite personnel of emergency events, classifications and actions.

6. Demonstrate the ability to conduct and maintain personnel accountability.

7. Demonstrate the ability of the TSC Director to communicate with onsite and offsite emergency response personnel when making decisions and implement corrective actions in an effective and timely manner.

8. Demonstrate the ability of the TSC to communicate technical information to the Control Room, OSC, EOF and NRC.

   Limitation: A control cell will be used to simulate the NRC in the event the NRC Operations Center declines to participate after the initial notification.

9. Demonstrate the capability of the Duty Plant Emergency Director to make timely and effective decisions and demonstrate command and control of the TSC and onsite response effort.

10. Demonstrate the timely and systematic transfer of Recovery Manager duties.

OPERATIONS SUPPORT CENTER (OSC)

1. For Alerts, Site Area and General Emergencies, demonstrate that the OSC can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency.

2. Demonstrate the ability to maintain appropriate radiological controls in the Protected Area, throughout the course of the event.

3. Demonstrate the ability of the OSC to effectively communicate with the EOF, TSC and repair teams, adequately brief, track and debrief teams dispatched from the OSC.

4. Demonstrate the ability to respond to and analyze simulated elevated airborne and direct radiation measurements in the Protected Area environment.

5. Demonstrate the ability to provide respiratory protection and contamination control in the Protected Area.

   Limitation: Use of SCBAs will be limited to one-time full use and bottle changeout by each emergency worker needing to wear one.

6. Demonstrate the ability to monitor OSC habitability.

   Limitation: Relocation of the OSC will not be demonstrated.

7. Demonstrate the ability to maintain accountability for all on-site personnel for the duration of the emergency event.

8. Demonstrate the ability of the OSC Director to command and coordinate OSC activities with the CR and TSC.

9. Demonstrate the ability to communicate technical information to the TSC and CR.

10. Demonstrate the ability to implement emergency exposure guidelines for onsite emergency workers.

EMERGENCY OPERATIONS FACILITY (EOF)

1. For Alerts, Site Area and General Emergencies, demonstrate that the Emergency Operations Facility (EOF) can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency.

2. Demonstrate the ability of the EOF to deploy environmental sampling teams to appropriate locations, promptly and correctly project direction and maximum dose within the plume EPZ and the distance to which EPA PAGs are projected to be exceeded and perform dose assessment if a release is in progress.

3. Upon activation, demonstrate the ability of the EOF to make offsite protective action recommendations and transmit these to offsite agencies.

4. Demonstrate the ability of the EOF to set up and maintain a communications channel to offsite authorities, including NRC and keep them informed of emergency conditions.

   Limitation: A control cell will be used to simulate the NRC in the event the NRC Operations Center declines to participate after the initial notification.

5. Demonstrate the ability to periodically assess the habitability of the EOF.

6. Demonstrate the ability to brief offsite representatives at the EOF and keep them informed of emergency conditions.

OBJECTIVES & LIMITATIONS
EXERCISE '93

7. Demonstrate the ability of the EOF to communicate effectively with corporate headquarters and other emergency response personnel and centers and to obtain outside resources in a timely manner, when requested.

8. Demonstrate the ability to dispatch offsite monitoring teams in a timely manner and the teams to implement their functions in a timely manner.

9. Demonstrate proficiency of offsite monitoring teams to use protective measures equipment, locate sampling and monitoring locations, collect, bag and label samples and other duties as required to effectively perform their function.

10. Demonstrate the ability of the Recovery Manager to make timely and effective decisions and demonstrate command and control of the EOF functions and overall response effort.

JOINT INFORMATION CENTER (JIC)

1. Demonstrate the ability of the Joint Information Center (JIC) to properly coordinate news releases with the NRC and other offsite agencies and disseminate information to the media/press in an accurate and timely manner.

   Limitation: A control cell will be used to simulate the NRC in the event the NRC Operations Center declines to participate after the initial notification.

2. Demonstrate the ability of the JIC to maintain adequate communications for use by the news media.

EVALUATOR / CONTROLLER LIST
EXERCISE 93

1. PLANT

CONTROL ROOM (Simulator)

Lead Controller/Evaluator	Paul Taylor
Simulator Controller/Evaluator	OJ Brooks
Lead Scenario Controller	Pat Bagan
GDS/CIS Controller	Dean Kovacs
Simulator Programmer	Fred Guyer
Real Control Room Controller	On-Shift CRS

OPERATIONS SUPPORT CENTER.

Lead Controller/Evaluator	Bruce Olson
Reentry Team Controller/Evaluators	
Mechanical	Jim Cooper
Electrical	Brian Evans
Instrument & Control	Ken Kirley
Lead HP Controller/Evaluator	Gary Phillips
Health Physics	Max Valdez
Health Physics	Carl Hemphill
Health Physics	Don Ehlert
Health Physics	Mike Tuel
PET Controller/Evaluator	'Skip' Fowler

NR = Not Required
TBD = To Be Determined

Chemistry Controller/Evaluator	NR

TECHNICAL SUPPORT CENTER

Lead Controller/Evaluator	Mark Reis
Evaluator	Terry Meade

CENTRAL ALARM STATION

Lead Controller/Evaluator	Andy Conner

2. EMERGENCY OPERATIONS FACILITY

SUPPLY SYSTEM DECISION CENTER

Lead Controller/Evaluator	Dave Kobus

SECURITY DECISION CENTER / EOF COMMUNICATIONS CENTER

Lead Controller/Evaluator	Sue Morris

OFFSITE AGENCY COORDINATION CENTER

Lead Controller/Evaluator	Doug Coleman

TECHNICAL DATA CENTER

Lead Controller/Evaluator	Dennis Armstrong

HEALTH PHYSICS CENTER

Lead Controller/Evaluator	Ron Wardlow

METEOROLOGY & UNIFIED DOSE ASSESSMENT CENTER

Lead Controller/Evaluator	Terry Chrisler
Dose Projection Evaluator	Jesse James
Field Team Coordinator Controller/Evaluator	Bryce Twitty

NR = Not Required
TBD = To Be Determined

WPPSS Field Team Controller/Evaluators:

Team Number One	Charlie McDonald
Team Number Two	Terry Northstrom
Team Number Three	Steve Rejniak
Aerial Monitoring Controller/Evaluator	Not Staffed

3. HEADQUARTERS

JOINT INFORMATION CENTER

Lead Evaluator	Richard Romanelli
Controller/Evaluator	Sandra Day

CRISIS MANAGEMENT CENTER

Lead Controller/Evaluator	Not Staffed

CONTROL CELL

Lead Controller	Nancy Garza

Telephone Query/Role Player Controllers:

Public Information	
Media Information	Suzanne Livingston
State/County Agencies	TBD

CONTROLLER COMMUNICATIONS LISTING
EXERCISE 93

AREA	CENTER/POSITION	PERSON	PHONE
Plant	Actual Control Room Controller	On-Duty CRS	377-2348
	OSC - Lead Controller	B Olson	377-2730
	TSC - Lead Controller	MP Reis	377-2310
	CAS - Lead Controller	AJ Conner	377-2089
	Simulator - Lead Controller	PM Taylor	377-8567
	Lead Scenario Controller	PT Bagan	377-8567
EOF	SSDC - Controller	DR Kobus	377-8181
	EOFCC - Controller	S Morris	377-8228
	OACC - Controller	DW Coleman	377-8071
	TDC - Controller	DA Armstrong	377-8092
	MUDAC - Lead Controller	FD Quinn	377-8191
	HP Center - Controller	RL Wardlow	(750 PSF Page)
Exercise Command Center	Exercise Director	RL Utter	377-8330
		(or pager)	780-0505
	Control Coordinator	PT Bagan	377-8567
HQ	JIC - Lead Controller	RL Romanelli	372-5860
	Control Cell - Lead Controller	N Garza	372-5346

CELLULAR PHONES

FIELD TEAM CONTROLLER PHONE NUMBERS (NEED VEHICLE LICENSE NUMBER):

PHONE	LICENSE#	NOTE:
948-0485	C58462	*CONTROLLERS CALL MUDAC @ 377-8191*
948-0484	C58614	
948-0483	C58468	

CELLULARS ARE FOR THE USE OF CONTROLLERS ONLY

notes & exceptions . . .

- In an emergency or failure of radios during the Exercise, the cellulars may be used by the players.
- Cost is expensive, limit use accordingly.
- Controllers need to have hands-on training (10 minutes)

GENERAL
EVALUATOR/CONTROLLER INSTRUCTIONS
EXERCISE 93

A. **Exercise Preparation:** Under the supervision of the Exercise director, the following will ***normally*** be accomplished prior to the exercise:

1. Completion of the scenario package.

2. Arrangements for required facilities, including for the larger drills and the exercise, use of the simulator.

3. Validation run of the scenario on the simulator, and the loading of scenario data on the graphics display system emulator.

4. Scheduling of pre- and post-drill meetings with evaluators/controllers and players, and evaluator/controller training for those not certified.

5. Procurement of props, realistic staging of casualty areas and briefings of any role players. However, neither actual plant operations, security or personnel safety are to be jeopardized.

6. Administrative and logistical arrangements, e.g., pager carrier duty roster revisions, controller and simulator communications set up, coffee and doughnuts contract, etc.

B. **Exercise Meetings for Evaluators and Controllers:** There will normally be two meetings:

1. A exercise package issue and overview meeting will be conducted for all evaluators/controllers; such things as objectives, limitations, schedules, evaluator/controller assignments, scenario introduction, the organization of scenario forms, messages, anticipated responses, general data sheets, critical points, and special evaluator/controller instructions will be covered.

2. Evaluator/controller team (center) breakout sessions will be conducted for all evaluators/controllers covering such things as specific messages, data input, event evaluation assignments, team communications, documentation and other coordination matters.

3. **Exercise Scenario Compromise**-All controllers and evaluators will be required to sign an "Emergency Preparedness Exercise Security Agreement" prior to the Exercise stating that they have specialized knowledge about the Exercise scenario and that they will not knowingly divulge this information to any unauthorized persons. Following the Exercise, they will again sign the same agreement stating that they did not divulge any specialized information during the course of the Exercise.

C. **Exercise Players Briefings:**

1. A briefing on the exercise activities will be conducted for preassigned players, covering generalities of the exercise package. An excerpt from the exercise package can be issued as a handout. Topics should include: introduction, schedule, player positions to be activated, instructions for players, any recent procedural changes and any special coordination matters. A synopsis of current Plant Conditions may be disseminated at this time.

2. Informal table top drills may also be conducted prior to an exercise to review center/team operations, procedures, etc. However, specifics on the particular scenario are not to be compromised.

D. **Exercise Evaluation and Control:**

1. Scenario Inputs:

Scenario messages and data will be provided to the players by center controllers or a controller in the control cell in as realistic a manner as possible. For example, a controller may call the Shift Manager and role-play as the BPA dispatcher with a scenario message; a controller may provide simulated radiation readings to a reentry team HP technician from a scenario package data sheet if commensurate with the type and scale setting of the instrument being used. Controllers do not provide conclusions, they furnish simulated sensory inputs, e.g., if the portrayed emergency condition actually existed, what would be seen, heard, smelled, etc.

Controllers are specifically cautioned against 'letting-on' to the Players what might/might-not be successful during Exercises and, to a lesser extent, during Drills. Controllers/Evaluators are not to inform the players of such items except as specifically permitted by the scenario or

by permission from the Exercise Director or Lead Scenario Controller.[1] Additionally, Controllers are cautioned not to permit player 'pre-staging' unless specifically permitted by the scenario. Should players show up at emergency centers or other areas in which Drill/Exercise play is to be conducted before it is appropriate for them to arrive, the Controller in charge is to request them to leave the area.

2. Scenario Deviations:

   a. Controllers seeing a need to modify the scenario should inform their team lead controller, who will contact the exercise director.

   b. Only the exercise director has the authority to start, stop or deviate the scenario. Scenario deviations, especially on the larger drills and the exercises are to be infrequent and only implemented after thorough coordination, to include any lead federal evaluators and lead offsite agency controllers. The exercise director is also responsible for arbitrating any jurisdictional or interagency disagreements which may occur during the exercise.

3. Performance Evaluation:

   a. Player task performance must be closely monitored by evaluators, as well as controllers as long as it does not interfere with their controller functions. Action taken should be compared with anticipated responses and procedural guidance. Evaluator logs are to be used to record observations. Center/team documentation should also be checked to verify the chronology of events and for correctness.

   b. Interference by evaluators/controllers with player actions should be minimized, with questioning restricted to slack times and the immediate critique session right after the exercise, with the following major exceptions:

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[1] During the 1992 Exercise, the NRC observed that a Controller had informed TSC players that they would not be able to stop the release prior to 9:15 a.m. This was communicated between emergency centers, thus prompting players as to when this item would re-enter Exercise play. Emergency Preparedness has committed to caution Controller/Evaluators not to inform players of this (and like) items, except as appropriate.

- o Safety - Evaluators/controllers will immediately intervene to prevent or mitigate any unsafe condition or act.

- o Major scenario deviation - If the players depart from the anticipated responses to the extent successful run of the scenario, and the meeting of drill or exercise objectives, is jeopardized.

- o **During drills only,** for brief, on-the-spot informal training to address incorrect task performance. ***This is NOT permitted during graded exercises.***

c. The reasons for incorrect task performances must be captured for proper preparation of the drill critique. This normally requires thorough questioning of the individual(s) involved.

E. Critiques

1. Immediate In-Center Critique Sessions:

Conducted in the center by the Emergency Planner or Lead controller immediately after the exercise, this informal session will be used to provide the players with feedback, ensure Center Director/Manager is aware of his/her responsibility to return center/team equipment to readiness state, resolve issues, complete any informal training and ascertain any systematic reasons behind unfavorable observations. For some findings it may be necessary to conduct a category 3 Root Cause Analysis (RCA) pursuant to PPM 1.3.48. The key is to determine the "why" of each unfavorable observation involving personnel error that indicates a problem with the system, e.g., improper procedural step, poor personnel selection for the position, ambiguous training, etc. The Emergency Planners or Lead Controllers are to collect all logs, After-Action Reports, and administrative paper work for delivery at the formal critique session.

2. Formal Critique Work Session:

Normally conducted the day after the exercise, this session involves two phases:

a. Specific center team breakout sessions for all evaluators/ controllers will be held during this day. During these sessions observations are discussed, researched with players and drafted

up on the critique work sheets as either favorable and unfavorable observations. Time-line inputs and answers to specific evaluation questions will be assembled during this time. Necessary RCA's with the players if present will be completed at this time, to assure a reason for each unfavorable finding is ascertained using the RCA flow sheets. Final team/center documentation and CARs will be prepared for submission by the Emergency Planner or Lead Controller. ***Key players may also be called to participate in these sessions.***

b. In the afternoon a center lead controller session is held, team inputs are discussed and submitted, appropriate observations are consolidated, assignments are made for any required follow-on actions and issues are identified and categorized for the written formal critique. Again, key players may be requested to be present.

3. Written Critique:

The exercise director will disseminate a written critique usually within 30 days of the exercise. The critique will normally consist of:

Part I - Chronology: A time line of the major scenario and player response activities.

Part II - Assessment of Drill Objectives: An identification of any of the objectives that were not met and the reasons.

Part III - Favorable Observations: Any noted display of special initiative or judgement meeting one of the two following definitions:

- o Exceptional Performance - A display of initiative or judgement that exceeds procedural requirements to mitigate emergency conditions.

- o Noteworthy Performance - A display of procedural initiative or judgement that is performed with a high degree of efficiency to mitigate an emergency condition.

Part IV: Corrective Action Records: Unfavorable findings divided by severity as defined below, as well as by those already closed out (normally involving isolated personnel errors) and those still requiring

action (normally involving needed equipment, procedure, software, training, etc., fixes).

In categorizing the severity of exercise findings, the potential significance of the concern under investigation should not be minimized by the possibly limited scope of the scenario. The concern should be extrapolated out to determine the potential total impact under a worse case real event situation:

a. **Major Deficiencies:** Observed inadequacies that could cause a finding that emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken to protect the health and safety of the public, and/or that of emergency workers.

b. **Minor Deficiencies:** Findings which have emergency response impact but do not adversely impact the health and safety of the general public or of emergency workers.

c. **Items of Clarification:** Findings which do not have an adverse impact on health and safety, but would enhance an organization's level of emergency preparedness.

Part V - Informational Observations: Major points that warrant consideration but do not meet the criteria for unfavorable findings, e.g., efforts directed by a center staff did not appear to be in the most efficient sequence. These do not require resolution or tracking. For critiques of exercises and the larger drills, the critique may simply make reference to a separate report disseminating informational observations to interested parties.

Part VI - Participants: A listing of all recorded participants who are to receive credit for the activity.

Part VII - Minority Opinion - In the unlikely event some evaluators/ controllers take exception to the content of the report, their minority opinion will be stated here.

SPECIAL EVALUATOR/CONTROLLER INSTRUCTIONS
EXERCISE 93

A. CONTROL

1. **Player Response:** Players at all of the different emergency centers are to interact with one another as if the simulated situations actually exist. However, communications that would be initiated to individuals and agencies not actually playing in the Exercise, e.g., BPA, Hanford Patrol, National Weather Service, etc., are to be made to controllers in the control cell who will role play the parts.

2. **Coordination:** Emergency Planners or lead controllers in each of the emergency centers will be linked by telephones set aside for that purpose. This will be used for exercise control coordination, such as to resolve problems or make needed scenario deviations. A controller communications listing is attached.

3. **Player Participation:** For additional players the current players want to use who would not normally be at the plant under the given exercise conditions, inject a one-hour response delay time before the additional player(s) are allowed to be used.

B. RECORD KEEPING

1. **Logs:** Evaluator log forms are at the "Evaluator Logs" tab. Also, you may write observations on the message forms, anticipated response forms or data sheets.

2. **Times:** Accurate times are important. Call the Simulator at X-8942 to set your watch to the official exercise time. Do this after hearing the PA announcement that the Exercise has started to ensure you will recieve an answer on the phone.

3. **Participants:** Player and Controller/Evaluator listings for your center should be documented for "credit" purposes. Special attendance records should be signed by each player during the drill. These records are to be turned in at the formal critique work sessions.

FAVORABLE OBSERVATION WORKSHEET

Exercise 93

EVALUATOR NAME	ORGANIZATION

FAVORABLE OBSERVATION FOR:

(List the Center, Team and Personnel involved)

A. Favorable Finding:

UNFAVORABLE OBSERVATION WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

UNFAVORABLE OBSERVATION FOR:
(List the Center, Team and Personnel involved)

A. Relevant Objectives *(List from Objectives section of the Scenario Package)*:

B. Findings *(who, what, when, where, consequences, violation)* **ALL MUST BE COMPLETED**

WHO?:

WHAT?:

VIOLATION REFERENCE? *(if different or in addition to section A, above)*

WHEN?:

WHERE?:

CONSEQUENCES?:

PERSONNEL CONTACTED TO VERIFY ACCURACY OF FINDING? *(List who)*:

(Write on the back of this form if you need more space)

C. Cause(s) from the Basic Root Cause Determination *(in Section III C of the scenario package)*:

WHY?:

D. Feedback *(complete for personnel performance issues identified in the Basic Root Cause Determination)*:

1. **Involved personnel briefed on findings?** ____ Yes; ____ No.
2. **Root Cause analysis attached?** ____ Yes; ____ No.

DRILL & EXERCISE
ROOT CAUSE ANALYSIS SUMMARY SHEET

Name of Evaluator/Controller Initiating Analysis:	Unfavorable Observation Number:

Initial Information Collection

Further description of the event or problem identified in the unfavorable observation. It is permissible to refer to the originating document *(the unfavorable observation sheet)*, rather than re-write the description here.

Pertinent Data - *Identify sources of data. e.g. - center logs, team logs, procedure excerpts, personal statements, etc. Attach the data to this summary sheet.*

ATTACHMENT	DESCRIPTION
A	
B	
C	
D	
E	
F	

Names of other personnel, besides yourself, who assisted in performing the Root Cause Analysis . . . .

Date Completed:

DRILL/EXERCISE UNFAVORABLE OBSERVATION
ROOT CAUSE ANALYSIS GUIDE

A. General

The cause of incorrect personnel task performance(s) will be included for each unfavorable observation. If simple questioning of the player(s) involved fails to identify the cause(s), then a Category 3 type root cause analysis *(RCA)* will be conducted by and evaluator/controller in accordance with this guide and attached to the unfavorable observation.

B. Process

1. Initiate the Root Cause Analysis Summary Sheet *(Enclosure 1)* by filling in the blanks for your name and the unfavorable observation number [1]

2. Gather the information necessary to complete the Initial Information Collection and Pertinent Data Blocks on the enclosure. Question involved personnel and complete personal statements on Personal Statement Forms *(Enclosure 2)*.

3. Using the information gathered, determine root cause(s) of the problem by application of the basic root cause determination method on the supplied copy of the Root Cause Tree. *Do not hesitate to collect additional information if necessary to validate your findings.*

    a. For the problem being analyzed, determine if the primary cause [2] is equipment, personnel, or procedures *(Section A of the tree)*.

    b. For each area in Section A of the tree identified as a primary cause, determine which subcategory *(Section B of the tree)* led to the primary cause. To do this, a list of questions *(Section C of the tree)* has been developed.

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[1] Use your own numbering system . . . Just start with number 1, number 2, etc.

[2] Although the root cause(s) may be determined to be realated to only one of these primary categories, all three should be considered initially to ensure complete coverage. Without complete consideration of the three categories, ALL root causes may not be identified.

c. For any question in Section C of the tree which is answered "Yes", it is a root cause. Any root cause shall be circled for easy identification. Limiting root cause(s) to those identified in the tree will aid in the trending of similar problems.

4. List at the bottom of the Root Cause Analysis Summary Sheet (Enclosure 1) the names of personnel, besides yourself, who assisted in performing the RCA. List the completion date of the RCA.

5. Attach the completed Root Cause Analysis Summary Sheet *(Enclosure 1)*, accompanying Personal Statement Forms *(Enclosure 2)*, and copies of any other relevant documentation, *e.g., center/team logs, etc.*, to the unfavorable observation critique worksheet.

Enclosures:

1. Root Cause Analysis Summary Sheet

2. Personal Statement Form

PLAYER/OBSERVER INSTRUCTIONS
EXERCISE 93

A. **Player's Rules**

1. General Instructions for all players:

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

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

      2) Players need to be pre-designated for this exercise so the auto-dialer database can be set up to call in the first shift personnel and the designated second shift personnel can be contacted regarding shift change time.

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

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

   b. Exercise

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

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

   c. Interactions with evaluators and controllers:

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

      2) React as if their scenario inputs are real.

      3) Refer any disagreements up management channels.

      4) Controllers may interrupt the play for essential reasons.

d. Safety

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

2) Realize safety takes precedence over all other requirements.

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

e. Realism

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

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

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

f. Exercise administrative items:

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

2) A shift change will be demonstrated.

3) At the conclusion of the Exercise, remain in place for a debriefing and Facilitative Post-Exercise critique [1] by the Emergency Planner assigned to the center or the Lead Controller-this includes first and second shift personnel. Fill out and submit After Action Reports with specific comments on the exercise.

4) Snacks will be provided for both shifts.

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[1] The NRC has new rules regarding the critique process. These rules were printed in the February 18, 1992 Federal Register. The rules are now in effect.

2. Additional instructions for JIC and EOF players:

   a. Mutual aid response may **NOT** be demonstrated.

3. Additional instructions for Plant and EOF Players.

   a. Realism:

      1) **Play out the scenario as if it were real!!**

      2) Minimal simulation will be allowed. Realistic detailed responses will be required, especially by Plant reentry teams. Describe verbally to your assigned Controller/Evaluator any action taken that must be simulated.

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

      4) Critical data *(eg - Plant Parameters)* for the exercise that is not on the display terminals will be available from the controllers in the centers.

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

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

      7) At exercise termination:

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

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

c. Radiation levels:

1) Act as if radiation levels are actually present.

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

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

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

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

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

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

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

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

6) To maintain separation from normal samples, if any samples are provided to the counting room at the plant or EOF, they should be marked "Exercise Sample" as appropriate. These samples and analytical results will be collected by the controller at the end of the exercise. Samples will not be "spiked."

4. Additional instructions for Plant Players:

a. Player designation:

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

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

b. Exercise administrative items:

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

2) All routine security procedures remain in effect.

c. Security

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

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

B. Observer's Information

1. Identification: Potential observers must contact the exercise coordinator no later than the week prior to the exercise for clearance to observe the exercise. Those willing to accept an evaluator's role will then have access to the area(s) to be evaluated. Designated evaluators will be committed to the schedule of controller/evaluator orientations and work sessions.

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

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

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

Plant & EOF Centers	RL Utter	377-8330
Plant & EOF Centers	TE Chrisler	377-8300
Plant & EOF Centers	PT Bagan	377-8643
Joint Information Center	JD Houchins	372-5116

SPECIAL PLAYER TELEPHONE USE INSTRUCTIONS
EXERCISE 93

1. During the Exercise, the Supply System emergency centers will be fully activated. State and County Emergency Operations Centers (EOCs) will be participating as Control Cells. Exercise communications and coordination should take place between the players in the Supply System centers and the applicable controllers at the EOCs.

WA State EOC Phone Numbers		B/F County EOC Phone Numbers
EMD Decision Maker	206-923-4956	582-5487
DOH Decision Maker	206-923-4950	582-2813
Ag Decision Maker	206-923-4958	
DOH Support	206-923-4960	
FNF Planners	206-923-4954	
	206-459-4133	

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

Players from:	Call:	For:
Supply System Centers	372-5440	Any other agency
	372-5686	Any other agency
B/F Counties EOC	372-5201	Any other agency
WA State EOC	372-5247	Any other agency

2. The PSF Simulator will be used to portray the Control Room, use the following corresponding numbers to contact the staff there:

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

3. **Do Not Use** the Emergency Notification System (ENS) phone in any emergency center. In order to simulate making NRC communication, call the Control Cell at 377-8095.
4. **Do Not Use** the Health Physics Network (HPN) telephone system. This applies to the TSC and many of the Centers in the EOF. Call the Control Cell at 377-8643.
5. Drill Emergency calls that would in reality be made on 2222 to the control room and EOF Communications Center should be made on 8832 (Simulator).

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DEFINITIONS/ACRONYMS
EXERCISE 93

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

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

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

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

CONTROLLER INFORMATION SCENARIO MESSAGES INDEX

MESSAGE NO.	MESSAGE ABOUT
1	START EXERCISE 93
2	BPA REQUEST WNP-2 STAY ON LINE
3	DEFAULT MESSAGE FOR SM AND PED ABOUT WNP-2 STAYING ON LINE
4	DEFAULT MESSAGE FOR ALERT
5	BPA REPORTS ON LOSS OF 230 KV
6	DEFAULT MESSAGE FOR GENERAL EMERGENCY
7	DEFAULT MESSAGE FOR OPS MANAGER AND PED ABOUT LPCS PUMP BREAKER
8	DEFAULT MESSAGE ABOUT SHIFT CHANGE
9	TERMINATE EXERCISE 93

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.			PAGE
EXERCISE 93			1 OF 1
MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:	
1	0330	0000	
CONTROLLER LOCATION			
CONTROL ROOM (SIMULATOR) & EOFCC			
CONTROLLER NAME		ORGANIZATION	

MESSAGE FOR: ALL PERSONNEL

MESSAGE FROM: CONTROL ROOM (SIMULATOR) & LEAD EOFCC CONTROLLERS

MESSAGE:

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

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

EXERCISE 93 IS NOW IN PROGRESS. PERSONNEL NOT IDENTIFIED AS PARTICIPANTS IN THE EXERCISE SHOULD CONTINUE WITH THEIR NORMAL WORK SCHEDULE.

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

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

REPEAT THIS PA ANNOUNCEMENT APPROXIMATELY EVERY HOUR.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.		PAGE
EXERCISE 93		1 of 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
2	0345	

CONTROLER LOCATION: CONTROL CELL (BPA)

CONTROLER NAME	ORGANIZATION

MESSAGE FOR: CONTROL ROOM SHIFT MANAGER

MESSAGE FROM: BPA (CONTROL CELL)

MESSAGE:

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

This is Dittmer in Vancouver, we request WNP-2 stay on line as long as possible. You are one of the few power sources left on line in the region following the earthquake. We would like you at maximum power until additional sources of power are returned to service.

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

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

If it appears the Shift Manager is going to shut down the plant , the controller in the Simulator will give the default message (message sheet 3).

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.		PAGE
EXERCISE 93		1 of 1
MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
3	0345	
CONTROLLER LOCATION		
CONTROL ROOM (SIMULATOR) - TSC		
CONTROLLER NAME	ORGANIZATION	

MESSAGE FOR: SHIFT MANAGER - PLANT EMERGENCY DIRECTOR

MESSAGE FROM: CONTROL ROOM (SIMULATOR) AND TSC CONTROLLERS

MESSAGE:

"THIS IS A DEFAULT MESSAGE"

For the purposes of the Exercise the plant is to remain on line as requested by the BPA even if it is decided shutting it down would be more conservative.

"THIS IS A DEFAULT MESSAGE"

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

This message is to be read to the Shift Manager and/or PED if it is decided to shut down the plant after the first earthquake. The plant must remain on line until the second earthquake which will automatically shutdown the plant.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.	PAGE
EXERCISE 93	1 of 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
4	0355	

CONTROLLER LOCATION: CONTROL ROOM (SIMULATOR)

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: SHIFT MANAGER

MESSAGE FROM: CONTROL ROOM (SIMULATOR) CONTROLLER

MESSAGE:

"THIS IS A DEFAULT MESSAGE"

For the purposes of the Exercise the plant is to declare an ALERT based on "Reactor Coolant Pressure Boundary lines fail to isolate when design logic met".

"THIS IS A DEFAULT MESSAGE"

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

This message is to be read to the Shift Manager if it appears the Operating crew is not going to declare an ALERT based on failure of RCIC steam isolation valves failing to close with an isolation signal present.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.		PAGE
EXERCISE 93		1 of 1
MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
5	0640	
CONTROLLER LOCATION		
CONTROL CELL (BPA)		
CONTROLLER NAME	ORGANIZATION	

MESSAGE FOR: SHIFT MANAGER - PLANT EMERGENCY DIRECTOR

MESSAGE FROM: BPA (CONTROL CELL)

MESSAGE:

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

The 230 KV lines from the ASHE substation to WNP-2 are down due to the earthquake. The prognosis is 12 - 24 hours before crews will be available to repair and another 12 hours for lines to be re-energized.

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

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

The second earthquake will occur at 0630 at which time 230 KV will be lost . The Shift Manager or PED may contact BPA before BPA contacts them. This message is valid anytime after 0630.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.	PAGE
EXERCISE 93	1 of 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
6	0720	

CONTROLLER LOCATION: CONTROL ROOM (SIMULATOR) - TSC

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: SHIFT MANAGER - PLANT EMERGENCY DIRECTOR

MESSAGE FROM: CONTROL ROOM (SIMULATOR) AND TSC CONTROLLERS

MESSAGE:

"THIS IS A DEFAULT MESSAGE"

For the purposes of the Exercise the plant is to declare a GENERAL EMERGENCY based on "Loss of two barriers and potential loss of the third".

"THIS IS A DEFAULT MESSAGE"

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

This message is to be read to the Shift Manager and PED if it appears the PED is not going to declare a GENERAL EMERGENCY with a RCIC steam line break into the reactor building and inadequate core cooling.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.	PAGE
EXERCISE 93	1 of 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
7	0705	

CONTROLLER LOCATION: TSC

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: OPERATIONS MANAGER - PLANT EMERGENCY DIRECTOR

MESSAGE FROM: LEAD TSC CONTROLLER

MESSAGE:

"THIS IS A DEFAULT MESSAGE"

For the purposes of the Exercise, regardless of any additional trouble shooting to be done, tell the OSC to reset the 86 lockout relay on LPCS pump breaker when the Control Room is ready.

"THIS IS A DEFAULT MESSAGE"

REFERENCE GENERAL DATA SHEETS: 8

FOR CONTROLLER USE ONLY

This message is to be read to the Operations Manager and Plant Emergency Director as soon as the initial report from the OSC about the LPCS pump breaker comes in.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.		PAGE
EXERCISE 93		1 OF 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
9	1000	0000

CONTROLLER LOCATION: CONTROL ROOM (SIMULATOR) & EOFCC

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: ALL PERSONNEL

MESSAGE FROM: CONTROL ROOM (SIMULATOR) & LEAD EOFCC CONTROLLERS

MESSAGE:

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

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

EXERCISE 93 IS NOW TERMINATED. PERSONNEL IDENTIFIED AS PARTICIPANTS IN THE DRILL SHOULD RETURN TO THEIR EMERGENCY CENTER TO CONDUCT POST EXERCISE CRITIQUE.

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

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

THIS PAGE

IS

PURPOSELY BLANK

CONTROLLER INFORMATION GENERAL DATA SHEET INDEX

SHEET NO.	INFORMATION APPLIES TO -
1	LOSS OF SM-8
2	RCIC-V-8 FAIL TO CLOSE
3	RCIC-V-63 FAIL TO CLOSE
4	RCIC EXHAUST RUPTURE DISK
5	RCIC STEAM LINE BREAK
6	HPCS DIESEL FAILURE
7	RHR-V-42A FAIL TO OPEN
8	LPCS PUMP BREAKER

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1
SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*	
1	CR (SIMULATOR) / SM-8	
REAL TIME OF: 0340	TO:	DRILL TIME OF: TO:
ASSOCIATED WITH MESSAGES		INFORMATION APPLIES TO: LOSS OF SM-8

At 0340 breaker 8-3 will trip and lockout, de-energizing SM-8. The Control Room will receive a fire alarm ("RW BLDG 467' ELECT SWGR AREA 2").

An Operator will be dispatched to investigate the cause of the fire alarm and the loss of SM-8.

Local indications will be:

Smoke in SM-8 room but no sign of an active fire.

Overcurrent relays on breaker 8-3 will have picked up (E-RLY-51/8/3).

Lockout relay on breaker 8-3 will have picked up and will not reset (E-RLY-86/8/3).

Further investigation will reveal that two to the phases of buswork in SM-8 are severely damaged possibly by some foreign object falling across them during the earthquake.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1
SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*	
2	RCIC-V-8	

REAL TIME OF:	TO:	DRILL TIME OF:	TO:
	0340		

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	RCIC-V-8 FAILING TO COMPLETELY CLOSE

At 0340 the earthquake will cause an isolation signal in the RCIC system. RCIC-V-8 will get a close signal but will fail to go completely closed.

Control Room (Simulator) indication will be a valid isolation signal, RCIC-V-8 position indication showing both red and green lights illuminated (mid position) and GDS showing RCIC-V-8 still open.

Local indication (simulated) will be RCIC-V-8 in mid position with a visibly bent stem. All attempts to manually close RCIC-V-8 will fail due to the stem binding. In addition the valve will not re-open either.

Since the upstream isolation valve (RCIC-V-63) inside of containment will not close the valve cannot be disassembled for repair.

RCIC-V-8 must stay open for the duration of the Exercise.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1

SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*
3	RCIC-V-63

REAL TIME OF:	TO:	DRILL TIME OF:	TO:
0340			

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	RCIC-V-63 FAILING OPEN DUE TO LOSS OF POWER

At 0340 an earthquake will cause a loss of SM-8 which causes power to be lost to MC-8BA which is the power supply to RCIC-V-63. This valve will fail as is on a loss of power which will be open.

This valve will be needed for isolation and an attempt may be made to connect an alternate power supply to the supply breaker for RCIC-V-63 on MC-8BA. If this is attempted the crew will be allowed to simulate hooking up the power supply and when the attempt to close the valve is made in the Control Room (Simulator) the breaker will trip on overload and not be able to reset.

This valve will not be able to close until entry can be made into containment and the valve closed manually.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.	PAGE
EXERCISE 93	1 of 1

SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*
4	RCIC EXHAUST RUPTURE DISK

REAL TIME OF:	TO:	DRILL TIME OF:	TO:
0340			

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	FAILURE OF RCIC EXHAUST RUPTURE DISK

At 0340 an earthquake occurs which causes the failure of RCIC Exhaust Rupture Disk RCIC-RD-1. The RCIC system is being run for its quarterly surveillance and the failure of the rupture disk initiates an isolation signal.

Control Room (Simulator) indications are:

Annunciator P601.A4 3-8 "RCIC TURBINE EXH DIAPHRAGM PRESS HIGH"

Annunciator P601.A11 4-1 "RCIC TURBINE EXH DIAPHRAGM PRESS HIGH"

Locally if maintenance crew wants to inspect rupture disk (simulate) they will find that the disk has a hole in the diaphragm.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1

SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*
5	RCIC STEAM LINE BREAK NEAR RCIC-V-8

REAL TIME OF:	TO:	DRILL TIME OF:	TO:
0630			

ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO
	RCIC STEAM LINE BREAK

At 0630 a second earthquake occurs which causes the RCIC steam line down stream of RCIC-V-8 to begin leaking (see attached drawing). This leak will propagate to a complete 4 inch line rupture within two minutes.

Control Room (Simulator) indications are:

Annunciator P601.A12 6-2 "LEAK DET RWCU/RCIC PIPE AREA TEMP HIGH"

Annunciator P601.A2 1-1 "LEAK DET RCIC PIPE ROUTING AREA TEMP HI-HI"

Annunciator P601.A3 1-8 "LEAK DET RCIC PIPE ROUTING AREA TEMP HI-HI"

Increasing Area Radiation Monitor readings on:

ARM-RIS-7 TIP ROOM
ARM-RIS-4 CRD AREA EAST
ARM-RIS-8 SGT FILTER AREA

Annunciator P602.A5 3-1 "REACTOR BLDG RAD HIGH"

If with a maintenance crew after 0630 in the area of the RCIC steam line break, inform crew of earthquake motion the sound of escaping steam and steam cloud forming above TIP room. The maintenance crew should evacuate the area and inform Control Room (Simulator), TSC or OSC.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1
SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*	
6	HPCS DIESEL FAILURE	
REAL TIME OF: AFTER 0630	TO:	DRILL TIME OF: TO:
ASSOCIATED WITH MESSAGES		INFORMATION APPLIES TO: HPCS DIESEL FAILURE

After 0630 the HPCS diesel which is running due to an auto start signal trips on overspeed.

Control Room (Simulator) indications are:

Annunciator P601.A1 3-1 "DIESEL ENGINE OVERSPEED"

Annunciator P601.A1 3-3 "DIESEL ENGINE TRIP"

Local DG-3 control panel indications are:

Annunciator DG-3 1-2 "UNIT LOCKOUT"

Annunciator DG-3 5-2 "OVERSPEED TRIP"

The cause of the overspeed condition will be a damaged connection between the magnetic speed pickup and the governor system. The loss of speed signal will cause the governor to speed up the diesel causing the overspeed trip.

The maintenance crew and /or operator will reset the overspeed trip but on the subsequent start the diesel will overspeed again.

Until the damaged connection is repaired the diesel will not run.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1
SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*	
7	RHR-V-42A	
REAL TIME OF: 0705	TO:	DRILL TIME OF: TO:
ASSOCIATED WITH MESSAGES		INFORMATION APPLIES TO: RHR-V-42A FAILING TO OPEN

At approximately 0705 the operating crew in the Control Room (Simulator) will attempt to open RHR-V-42A to inject water to the Reactor Vessel. The valve will fail to open from the control switch on P601 due to the valve disk jammed into the seat. Radiation levels in the area of RHR-V-42A will be to high to send an operator to open the valve manually.

If an Operator and/or Maintenance Crew is sent to the valve to open it manually, the valve will not open.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO.		PAGE
EXERCISE 93		1 of 1
SHEET NO.	RESPONSIBLE CONTROLLER *(LOCATION)*	
8	LPCS PUMP BREAKER (SM-7)	
REAL TIME OF: TO:	DRILL TIME OF: TO:	
0705		
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO	
	TRIP OF LPCS PUMP BREAKER	

Depending on the operating crews decision the LPCS pump may be running with its injection valve closed or the pump may be off when it is time to use the LPCS system for injection to the Reactor Vessel.

If the pump is running and the injection valve is opened the pump will trip.

If the pump is off and the pump is started it will subsequently trip.

Control Room (Simulator) indicators are:

Annunciator P601.A3 3-2 "LPCS PUMP P-1 OVERLOAD"

Annunciator P601.A3 4-2 "LPCS PUMP P-1 TRIP"

Local indications on the LPCS pump breaker at SM-7 are:

LPCS-RLY-51X/P1 tripped

LPCS-RLY-86/P1 tripped

The cause of the pump trip is a spurious overcurrent relay trip. When a maintenance crew and/or operator is sent to SM-7 to investigate there will be no apparent cause of the overcurrent condition. Ensure the maintenance crew and/or operator report findings to the OSC.

When the OSC reports to the TSC its findings a DEFAULT MESSAGE will have the TSC tell the OSC to reset the 86 lockout relay when the Control Room (Simulator) is ready.

When the 86 lockout is reset the LPCS pump breaker will close and the pump will run.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 93		PAGE
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION) Control Room (Simulator), MUDAC & TSC	
REAL TIME OF: 03:00 TO: 12:00	DRILL TIME OF: 00:00 TO: 09:00	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO TABLE OF CONTENTS	

TAB	HEADING
P1	REACTOR WATER ACTIVITY CONCENTRATION
P2	DRYWELL GAS ACTIVITY CONCENTRATION
P3	WETWELL GAS ACTIVITY CONCENTRATION
P4	WETWELL WATER ACTIVITY CONCENTRATION
P5	RX BLDG & REFUEL FLOOR ACT. CONC.
P6	RX BLDG ELEVATED RELEASE POINT CONC.
P7	RADWASTE BLDG/RADWASTE BLDG EXHAUST
P8	TURBINE BLDG/TURBINE BLDG EXHAUST
P9	RADIATION MONITORING SYSTEM DATA
P10	IN-PLANT SURVEY AND SAMPLING DATA
P11	ONSITE SURVEY AND SAMPLING DATA
P12	AIRBORNE ACTIVITY (PLANT VICINITY)
P13	CRITICAL PLANT PARAMETER SUMMARY
P14	PUMP AND FAN STATUS SUMMARY
E1	METEOROLOGICAL DATA SUMMARY
E2	OFFSITE SURVEY AND SAMPLING DATA
E3	ENVIRONMENTAL SAMPLING DATA
PE1	EMERGENCY RESPONSE FACILITY DATA

TABLE P1. a

REACTOR WATER ACTIVITY CONCENTRATION (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.76E-03 uCi/cc
Kr-87	3.06E-03 uCi/cc
Kr-88	4.85E-03 uCi/cc
Xe-131m	7.67E-05 uCi/cc
Xe-133	1.30E-02 uCi/cc
Xe-133m	4.59E-04 uCi/cc
Xe-135	2.66E-03 uCi/cc
Xe-138	5.41E-03 uCi/cc
I-131	4.35E-03 uCi/cc
I-132	5.61E-03 uCi/cc
I-133	8.62E-03 uCi/cc
I-134	7.68E-03 uCi/cc
I-135	7.44E-03 uCi/cc
Cs-134	9.61E-04 uCi/cc
Cs-136	3.84E-04 uCi/cc
Cs-137	6.03E-04 uCi/cc
TOTAL WATER SAMPLE	6.71E-02 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.0E+1
For 4" lead shield divide dose rate by: 6.2E+2

TABLE P1. c

REACTOR WATER ACTIVITY CONCENTRATION (T = 03:30) (06:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.76E-03 uCi/cc
Kr-87	3.05E-03 uCi/cc
Kr-88	4.84E-03 uCi/cc
Xe-131m	7.67E-05 uCi/cc
Xe-133	1.32E-02 uCi/cc
Xe-133m	4.58E-04 uCi/cc
Xe-135	3.47E-03 uCi/cc
Xe-138	5.41E-03 uCi/cc
I-131	4.35E-03 uCi/cc
I-132	5.55E-03 uCi/cc
I-133	8.61E-03 uCi/cc
I-134	7.67E-03 uCi/cc
I-135	7.44E-03 uCi/cc
Rb-88	1.89E-03 uCi/cc
Cs-134	9.61E-04 uCi/cc
Cs-136	3.84E-04 uCi/cc
Cs-137	6.03E-04 uCi/cc
TOTAL WATER SAMPLE	6.98E-02 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 2.9E+1
For 4" lead shield divide dose rate by: 6.1E+2

TABLE P1. d

REACTOR WATER ACTIVITY CONCENTRATION (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	2.26E-03 uCi/cc
Kr-87	3.30E-03 uCi/cc
Kr-88	5.98E-03 uCi/cc
Xe-131m	1.06E-04 uCi/cc
Xe-133	1.81E-02 uCi/cc
Xe-133m	6.29E-04 uCi/cc
Xe-135	4.82E-03 uCi/cc
Xe-138	1.98E-03 uCi/cc
I-131	6.08E-03 uCi/cc
I-132	6.79E-03 uCi/cc
I-133	1.19E-02 uCi/cc
I-134	7.53E-03 uCi/cc
I-135	9.94E-03 uCi/cc
Rb-88	1.24E-03 uCi/cc
Cs-134	1.35E-03 uCi/cc
Cs-136	5.37E-04 uCi/cc
Cs-137	8.45E-04 uCi/cc
TOTAL WATER SAMPLE	8.36E-02 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.1E+1
For 4" lead shield divide dose rate by: 6.5E+2

TABLE P1. e

REACTOR WATER ACTIVITY CONCENTRATION (T = 04:30) (07:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	2.42E+00 uCi/cc
Kr-87	3.62E+00 uCi/cc
Kr-88	6.46E+00 uCi/cc
Xe-133	1.94E+01 uCi/cc
Xe-133m	6.68E-01 uCi/cc
Xe-135	6.30E+00 uCi/cc
Xe-138	2.52E+00 uCi/cc
Br-83	8.64E-01 uCi/cc
Br-84	6.69E-01 uCi/cc
I-131	1.02E+01 uCi/cc
I-132	1.19E+01 uCi/cc
I-133	1.99E+01 uCi/cc
I-134	1.32E+01 uCi/cc
I-135	1.67E+01 uCi/cc
Rb-88	5.24E+00 uCi/cc
Cs-134	3.02E+00 uCi/cc
Cs-136	1.05E+00 uCi/cc
Cs-137	2.05E+00 uCi/cc
TOTAL WATER SAMPLE	1.27E+02 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 11. mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 7.3 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.2E+1
For 4" lead shield divide dose rate by: 6.9E+2

TABLE P1. f

REACTOR WATER ACTIVITY CONCENTRATION (T = 05:00) (08:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.72E+00 uCi/cc
Kr-87	2.43E+00 uCi/cc
Kr-88	4.53E+00 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.85E-01 uCi/cc
Xe-135	4.61E+00 uCi/cc
Xe-138	1.18E+00 uCi/cc
Br-83	6.02E-01 uCi/cc
Br-84	4.00E-01 uCi/cc
I-131	7.38E+00 uCi/cc
I-132	8.29E+00 uCi/cc
I-133	1.44E+01 uCi/cc
I-134	8.54E+00 uCi/cc
I-135	1.20E+01 uCi/cc
Rb-88	2.79E+00 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.65E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
TOTAL WATER SAMPLE	8.83E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 7.5 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 5.0 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.2E+1
For 4" lead shield divide dose rate by: 7.1E+2

TABLE P1. g

REACTOR WATER ACTIVITY CONCENTRATION (T = 05:30) (08:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.68E+00 uCi/cc
Kr-87	2.24E+00 uCi/cc
Kr-88	4.37E+00 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.84E-01 uCi/cc
Xe-135	4.64E+00 uCi/cc
Xe-138	7.61E-01 uCi/cc
Br-83	5.77E-01 uCi/cc
Br-84	3.29E-01 uCi/cc
I-131	7.38E+00 uCi/cc
I-132	7.93E+00 uCi/cc
I-133	1.43E+01 uCi/cc
I-134	7.59E+00 uCi/cc
I-135	1.18E+01 uCi/cc
Rb-88	2.07E+00 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.65E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
TOTAL WATER SAMPLE	8.51E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 7.2 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 4.8 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.3E+1
For 4" lead shield divide dose rate by: 7.3E+2

TABLE P1. h

REACTOR WATER ACTIVITY CONCENTRATION (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.64E+00 uCi/cc
Kr-87	2.06E+00 uCi/cc
Kr-88	4.21E+00 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.83E-01 uCi/cc
Xe-135	4.67E+00 uCi/cc
Xe-138	4.90E-01 uCi/cc
Br-83	5.52E-01 uCi/cc
Br-84	2.70E-01 uCi/cc
I-131	7.38E+00 uCi/cc
I-132	7.58E+00 uCi/cc
I-133	1.42E+01 uCi/cc
I-134	6.74E+00 uCi/cc
I-135	1.16E+01 uCi/cc
Rb-88	1.56E+00 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.65E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
Mo-99	8.48E-02 uCi/cc
TOTAL WATER SAMPLE	8.24E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 6.9 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 4.6 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.3E+1
For 4" lead shield divide dose rate by: 7.4E+2

TABLE P1. i

REACTOR WATER ACTIVITY CONCENTRATION (T = 06:30) (09:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.60E+00 uCi/cc
Kr-87	1.90E+00 uCi/cc
Kr-88	4.06E+00 uCi/cc
Xe-131m	8.14E-02 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.82E-01 uCi/cc
Xe-135	4.69E+00 uCi/cc
Xe-138	3.15E-01 uCi/cc
Br-83	5.29E-01 uCi/cc
Br-84	2.22E-01 uCi/cc
I-131	7.37E+00 uCi/cc
I-132	7.24E+00 uCi/cc
I-133	1.42E+01 uCi/cc
I-134	5.98E+00 uCi/cc
I-135	1.14E+01 uCi/cc
Rb-88	1.19E+00 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.65E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
Mo-99	8.47E-02 uCi/cc
TOTAL WATER SAMPLE	8.01E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 6.6 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 4.4 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.3E+1
For 4" lead shield divide dose rate by: 7.6E+2

TABLE P1. j

REACTOR WATER ACTIVITY CONCENTRATION (T = 07:00) (10:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.56E+00 uCi/cc
Kr-87	1.75E+00 uCi/cc
Kr-88	3.91E+00 uCi/cc
Xe-131m	8.13E-02 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.81E-01 uCi/cc
Xe-135	4.71E+00 uCi/cc
Xe-138	2.03E-01 uCi/cc
Br-83	5.06E-01 uCi/cc
Br-84	1.82E-01 uCi/cc
I-131	7.37E+00 uCi/cc
I-132	6.92E+00 uCi/cc
I-133	1.41E+01 uCi/cc
I-134	5.32E+00 uCi/cc
I-135	1.12E+01 uCi/cc
Rb-88	9.32E-01 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.64E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
Mo-99	8.45E-02 uCi/cc
TOTAL WATER SAMPLE	7.81E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 6.4 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 4.3 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.4E+1
For 4" lead shield divide dose rate by: 7.7E+2

TABLE P1. k

REACTOR WATER ACTIVITY CONCENTRATION (T = 07:30) (10:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.53E+00 uCi/cc
Kr-87	1.62E+00 uCi/cc
Kr-88	3.77E+00 uCi/cc
Xe-131m	8.13E-02 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.81E-01 uCi/cc
Xe-135	4.73E+00 uCi/cc
Xe-138	1.30E-01 uCi/cc
Br-83	4.85E-01 uCi/cc
Br-84	1.50E-01 uCi/cc
I-131	7.36E+00 uCi/cc
I-132	6.62E+00 uCi/cc
I-133	1.40E+01 uCi/cc
I-134	4.72E+00 uCi/cc
I-135	1.11E+01 uCi/cc
Rb-88	7.46E-01 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.64E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
Mo-99	8.44E-02 uCi/cc
TOTAL WATER SAMPLE	7.63E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 6.2 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 4.2 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.4E+1
For 4" lead shield divide dose rate by: 7.8E+2

TABLE P1. 1

REACTOR WATER ACTIVITY CONCENTRATION (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.49E+00 uCi/cc
Kr-87	1.49E+00 uCi/cc
Kr-88	3.64E+00 uCi/cc
Xe-131m	8.13E-02 uCi/cc
Xe-133	1.41E+01 uCi/cc
Xe-133m	4.80E-01 uCi/cc
Xe-135	4.75E+00 uCi/cc
Xe-138	8.39E-02 uCi/cc
Br-83	4.65E-01 uCi/cc
Br-84	1.23E-01 uCi/cc
I-131	7.36E+00 uCi/cc
I-132	6.33E+00 uCi/cc
I-133	1.40E+01 uCi/cc
I-134	4.19E+00 uCi/cc
I-135	1.09E+01 uCi/cc
Rb-88	6.11E-01 uCi/cc
Cs-134	2.20E+00 uCi/cc
Cs-136	7.64E-01 uCi/cc
Cs-137	1.49E+00 uCi/cc
Mo-99	8.43E-02 uCi/cc
TOTAL WATER SAMPLE	7.48E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 6.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 4.0 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.4E+1
For 4" lead shield divide dose rate by: 8.0E+2

TABLE P2. a

DRYWELL GAS ACTIVITY CONCENTRATION (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.47E-08 uCi/cc
Kr-87	2.42E-08 uCi/cc
Kr-88	3.90E-08 uCi/cc
Xe-133	1.29E-07 uCi/cc
Xe-135	1.58E-07 uCi/cc
Xe-138	4.48E-08 uCi/cc
TOTAL GAS SAMPLE	4.14E-07 uCi/cc
I-131	8.79E-10 uCi/cc
I-132	1.14E-09 uCi/cc
I-133	1.92E-09 uCi/cc
I-134	1.51E-09 uCi/cc
I-135	1.76E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	7.22E-09 uCi/cc
Cs-134	2.49E-10 uCi/cc
Cs-136	9.66E-11 uCi/cc
Cs-137	1.61E-10 uCi/cc
Np-239	8.34E-11 uCi/cc
TOTAL FILTER SAMPLE	6.19E-10 uCi/cc

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TABLE P2. a

DRYWELL GAS ACTIVITY CONCENTRATION (T = 00:00) (03:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.8E+1
For 4" lead shield divide dose rate by:4.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 3.9%

Cladding Failure: 0.% Fuel Melt: 0.%

TABLE P2. b

DRYWELL GAS ACTIVITY CONCENTRATION (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	3.71E-07 uCi/cc
Kr-87	3.26E-07 uCi/cc
Kr-88	8.64E-07 uCi/cc
Xe-133	3.74E-06 uCi/cc
Xe-133m	1.28E-07 uCi/cc
Xe-135	8.56E-07 uCi/cc
TOTAL GAS SAMPLE	6.37E-06 uCi/cc
I-131	5.53E-09 uCi/cc
I-132	4.68E-09 uCi/cc
I-133	1.05E-08 uCi/cc
I-134	3.75E-09 uCi/cc
I-135	8.13E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	3.26E-08 uCi/cc
Rb-88	5.53E-08 uCi/cc
TOTAL FILTER SAMPLE	5.97E-08 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: .0%

Cladding Failure: 0.% Fuel Melt: 0.%

TABLE P2. c

DRYWELL GAS ACTIVITY CONCENTRATION (T = 05:00) (08:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.11E-03 uCi/cc
Kr-87	1.57E-03 uCi/cc
Kr-88	2.92E-03 uCi/cc
Xe-133	9.06E-03 uCi/cc
Xe-133m	3.13E-04 uCi/cc
Xe-135	2.88E-03 uCi/cc
Xe-138	7.67E-04 uCi/cc
TOTAL GAS SAMPLE	1.87E-02 uCi/cc
Br-83	1.69E-06 uCi/cc
I-131	2.07E-05 uCi/cc
I-132	2.33E-05 uCi/cc
I-133	4.04E-05 uCi/cc
I-134	2.40E-05 uCi/cc
I-135	3.36E-05 uCi/cc
TOTAL CHARCOAL SAMPLE	1.45E-04 uCi/cc
Rb-88	1.15E-04 uCi/cc
Cs-134	3.19E-05 uCi/cc
Cs-136	1.11E-05 uCi/cc
Cs-137	2.17E-05 uCi/cc
TOTAL FILTER SAMPLE	1.80E-04 uCi/cc

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TABLE P2. c

DRYWELL GAS ACTIVITY CONCENTRATION (T = 05:00) (08:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 3.8%

Cladding Failure: 3.% Fuel Melt: 0.%

TABLE P2. d

DRYWELL GAS ACTIVITY CONCENTRATION (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.00E-03 uCi/cc
Kr-87	1.26E-03 uCi/cc
Kr-88	2.57E-03 uCi/cc
Xe-133	8.57E-03 uCi/cc
Xe-133m	2.95E-04 uCi/cc
Xe-135	2.67E-03 uCi/cc
Xe-138	3.01E-04 uCi/cc
TOTAL GAS SAMPLE	1.68E-02 uCi/cc
Br-83	1.02E-07 uCi/cc
I-131	1.36E-06 uCi/cc
I-132	1.39E-06 uCi/cc
I-133	2.62E-06 uCi/cc
I-134	1.24E-06 uCi/cc
I-135	2.14E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	8.91E-06 uCi/cc
Rb-88	9.54E-05 uCi/cc
Cs-134	1.27E-05 uCi/cc
Cs-137	8.59E-06 uCi/cc
TOTAL FILTER SAMPLE	1.21E-04 uCi/cc

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TABLE P2. d

DRYWELL GAS ACTIVITY CONCENTRATION (T = 06:00) (09:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 3.8%

Cladding Failure: 3.% Fuel Melt: 0.%

TABLE P2. e

DRYWELL GAS ACTIVITY CONCENTRATION (T = 07:00) (10:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.32E-04 uCi/cc
Kr-87	1.05E-03 uCi/cc
Kr-88	2.33E-03 uCi/cc
Xe-133	8.35E-03 uCi/cc
Xe-133m	2.87E-04 uCi/cc
Xe-135	2.55E-03 uCi/cc
TOTAL GAS SAMPLE	1.57E-02 uCi/cc
Br-83	1.48E-08 uCi/cc
I-131	2.16E-07 uCi/cc
I-132	2.03E-07 uCi/cc
I-133	4.13E-07 uCi/cc
I-134	1.56E-07 uCi/cc
I-135	3.29E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	1.34E-06 uCi/cc
Rb-88	8.54E-05 uCi/cc
Cs-134	5.29E-06 uCi/cc
TOTAL FILTER SAMPLE	9.62E-05 uCi/cc

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TABLE P2. e

DRYWELL GAS ACTIVITY CONCENTRATION (T = 07:00) (10:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 3.8%

Cladding Failure: 3.% Fuel Melt: 0.%

TABLE P2. f

DRYWELL GAS ACTIVITY CONCENTRATION (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.80E-04 uCi/cc
Kr-87	8.77E-04 uCi/cc
Kr-88	2.14E-03 uCi/cc
Xe-133	8.24E-03 uCi/cc
Xe-133m	2.82E-04 uCi/cc
Xe-135	2.46E-03 uCi/cc
TOTAL GAS SAMPLE	1.50E-02 uCi/cc
Br-83	8.85E-09 uCi/cc
I-131	1.40E-07 uCi/cc
I-132	1.21E-07 uCi/cc
I-133	2.66E-07 uCi/cc
I-134	8.00E-08 uCi/cc
I-135	2.08E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	8.26E-07 uCi/cc
Rb-88	7.82E-05 uCi/cc
TOTAL FILTER SAMPLE	8.30E-05 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 3.8%

Cladding Failure: 3.% Fuel Melt: 0.%

TABLE P3.a

WETWELL GAS ACTIVITY CONCENTRATION (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.44E-07 uCi/cc
Kr-87	2.52E-07 uCi/cc
Kr-88	3.97E-07 uCi/cc
Xe-133	1.07E-06 uCi/cc
Xe-133m	3.74E-08 uCi/cc
Xe-135	2.15E-07 uCi/cc
Xe-138	4.64E-07 uCi/cc
TOTAL GAS SAMPLE	2.58E-06 uCi/cc
I-131	3.47E-09 uCi/cc
I-132	4.51E-09 uCi/cc
I-133	6.89E-09 uCi/cc
I-134	6.21E-09 uCi/cc
I-135	5.96E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	2.70E-08 uCi/cc
Cs-134	7.68E-10 uCi/cc
Cs-136	3.07E-10 uCi/cc
Cs-137	4.81E-10 uCi/cc
TOTAL FILTER SAMPLE	1.63E-09 uCi/cc

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TABLE P3. a

WETWELL GAS ACTIVITY CONCENTRATION (T = 00:00) (03:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 3.2%

TABLE P3. b

WETWELL GAS ACTIVITY CONCENTRATION (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	3.03E-08 uCi/cc
Kr-87	2.68E-08 uCi/cc
Kr-88	7.09E-08 uCi/cc
Xe-133	3.03E-07 uCi/cc
Xe-133m	1.04E-08 uCi/cc
Xe-135	6.31E-08 uCi/cc
TOTAL GAS SAMPLE	5.11E-07 uCi/cc
I-131	1.08E-09 uCi/cc
I-132	8.06E-10 uCi/cc
I-133	2.02E-09 uCi/cc
I-134	5.28E-10 uCi/cc
I-135	1.52E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	5.95E-09 uCi/cc
Rb-88	4.90E-09 uCi/cc
TOTAL FILTER SAMPLE	5.39E-09 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: .1%

TABLE P3. c

WETWELL GAS ACTIVITY CONCENTRATION (T = 05:00) (08:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.58E+01 uCi/cc
Kr-87	2.24E+01 uCi/cc
Kr-88	4.17E+01 uCi/cc
Xe-133	1.29E+02 uCi/cc
Xe-133m	4.46E+00 uCi/cc
Xe-135	4.14E+01 uCi/cc
Xe-138	1.09E+01 uCi/cc
TOTAL GAS SAMPLE	2.68E+02 uCi/cc
Br-83	2.06E-01 uCi/cc
I-131	2.53E+00 uCi/cc
I-132	2.84E+00 uCi/cc
I-133	4.92E+00 uCi/cc
I-134	2.92E+00 uCi/cc
I-135	4.09E+00 uCi/cc
TOTAL CHARCOAL SAMPLE	1.76E+01 uCi/cc
Rb-88	2.03E+00 uCi/cc
Cs-134	7.52E-01 uCi/cc
Cs-136	2.62E-01 uCi/cc
Cs-137	5.11E-01 uCi/cc
TOTAL FILTER SAMPLE	3.56E+00 uCi/cc

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TABLE P3. c

WETWELL GAS ACTIVITY CONCENTRATION (T = 05:00) (08:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml)	Dose Rate at 1 ft.:	26. mR/hr
PASS Sample (14. ml)	Dose Rate at 1 ft.:	25. mR/hr
PASS Sample (charcoal)	Dose Rate at 1 ft.:	3000. mR/hr per cf
PASS Sample (filter)	Dose Rate at 1 ft.:	580. mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:4.0E+2
Hydrogen Concentration: 16.5%
Oxygen Concentration: .7%

TABLE P3. d

WETWELL GAS ACTIVITY CONCENTRATION (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.51E+01 uCi/cc
Kr-87	1.90E+01 uCi/cc
Kr-88	3.87E+01 uCi/cc
Xe-133	1.29E+02 uCi/cc
Xe-133m	4.44E+00 uCi/cc
Xe-135	4.06E+01 uCi/cc
Xe-138	4.50E+00 uCi/cc
TOTAL GAS SAMPLE	2.53E+02 uCi/cc
Br-83	1.42E-01 uCi/cc
I-131	1.89E+00 uCi/cc
I-132	1.94E+00 uCi/cc
I-133	3.65E+00 uCi/cc
I-134	1.73E+00 uCi/cc
I-135	2.97E+00 uCi/cc
TOTAL CHARCOAL SAMPLE	1.24E+01 uCi/cc
Rb-88	2.03E+00 uCi/cc
Cs-134	5.63E-01 uCi/cc
Cs-136	1.96E-01 uCi/cc
Cs-137	3.83E-01 uCi/cc
TOTAL FILTER SAMPLE	3.18E+00 uCi/cc

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TABLE P3. d

WETWELL GAS ACTIVITY CONCENTRATION (T = 06:00) (09:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml)	Dose Rate at 1 ft.:	24. mR/hr
PASS Sample (14. ml)	Dose Rate at 1 ft.:	23. mR/hr
PASS Sample (charcoal)	Dose Rate at 1 ft.:	2100. mR/hr per cf
PASS Sample (filter)	Dose Rate at 1 ft.:	510. mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:4.0E+2
Hydrogen Concentration: 17.7%
Oxygen Concentration: 2.2%

TABLE P5. m

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.35E-03 uCi/cc
Kr-87	1.05E-02 uCi/cc
Kr-88	2.15E-02 uCi/cc
Xe-133	7.16E-02 uCi/cc
Xe-133m	2.46E-03 uCi/cc
Xe-135	2.27E-02 uCi/cc
Xe-138	2.50E-03 uCi/cc
TOTAL GAS SAMPLE	1.40E-01 uCi/cc
Br-83	1.78E-04 uCi/cc
I-131	2.37E-03 uCi/cc
I-132	2.44E-03 uCi/cc
I-133	4.58E-03 uCi/cc
I-134	2.17E-03 uCi/cc
I-135	3.73E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	1.56E-02 uCi/cc
Rb-88	2.00E-03 uCi/cc
Cs-134	1.95E-03 uCi/cc
Cs-136	6.78E-04 uCi/cc
Cs-137	1.32E-03 uCi/cc
TOTAL FILTER SAMPLE	6.14E-03 uCi/cc

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TABLE P3. e

WETWELL GAS ACTIVITY CONCENTRATION (T = 07:00) (10:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.44E+01 uCi/cc
Kr-87	1.61E+01 uCi/cc
Kr-88	3.59E+01 uCi/cc
Xe-133	1.29E+02 uCi/cc
Xe-133m	4.42E+00 uCi/cc
Xe-135	3.98E+01 uCi/cc
TOTAL GAS SAMPLE	2.43E+02 uCi/cc
Br-83	1.01E-01 uCi/cc
I-131	1.47E+00 uCi/cc
I-132	1.38E+00 uCi/cc
I-133	2.82E+00 uCi/cc
I-134	1.06E+00 uCi/cc
I-135	2.25E+00 uCi/cc
TOTAL CHARCOAL SAMPLE	9.13E+00 uCi/cc
Rb-88	1.92E+00 uCi/cc
Cs-134	4.40E-01 uCi/cc
Cs-136	1.53E-01 uCi/cc
Cs-137	2.99E-01 uCi/cc
TOTAL FILTER SAMPLE	2.81E+00 uCi/cc

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TABLE P3. e

WETWELL GAS ACTIVITY CONCENTRATION (T = 07:00) (10:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml)	Dose Rate at 1 ft.:	23. mR/hr
PASS Sample (14. ml)	Dose Rate at 1 ft.:	22. mR/hr
PASS Sample (charcoal)	Dose Rate at 1 ft.:	1500. mR/hr per cf
PASS Sample (filter)	Dose Rate at 1 ft.:	440. mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: 18.2%
Oxygen Concentration: 2.8%

TABLE P3. f

WETWELL GAS ACTIVITY CONCENTRATION (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.37E+01 uCi/cc
Kr-87	1.37E+01 uCi/cc
Kr-88	3.34E+01 uCi/cc
Xe-133	1.29E+02 uCi/cc
Xe-133m	4.40E+00 uCi/cc
Xe-135	3.91E+01 uCi/cc
TOTAL GAS SAMPLE	2.35E+02 uCi/cc
Br-83	7.59E-02 uCi/cc
I-131	1.20E+00 uCi/cc
I-132	1.03E+00 uCi/cc
I-133	2.28E+00 uCi/cc
I-134	6.85E-01 uCi/cc
I-135	1.78E+00 uCi/cc
TOTAL CHARCOAL SAMPLE	7.08E+00 uCi/cc
Rb-88	1.78E+00 uCi/cc
Cs-134	3.59E-01 uCi/cc
Cs-137	2.44E-01 uCi/cc
TOTAL FILTER SAMPLE	2.51E+00 uCi/cc

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TABLE P3. f

WETWELL GAS ACTIVITY CONCENTRATION (T = 08:00) (11:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml)	Dose Rate at 1 ft.:	21. mR/hr
PASS Sample (14. ml)	Dose Rate at 1 ft.:	21. mR/hr
PASS Sample (charcoal)	Dose Rate at 1 ft.:	1200. mR/hr per cf
PASS Sample (filter)	Dose Rate at 1 ft.:	390. mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: 18.5%
Oxygen Concentration: 3.1%

TABLE P4. a

WETWELL WATER ACTIVITY CONCENTRATION (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.02E-10 uCi/cc
Kr-87	7.04E-10 uCi/cc
Kr-88	1.11E-09 uCi/cc
Xe-133	4.66E-09 uCi/cc
Xe-133m	1.05E-10 uCi/cc
Xe-135	1.66E-09 uCi/cc
Xe-138	1.30E-09 uCi/cc
I-131	8.70E-09 uCi/cc
I-132	1.13E-08 uCi/cc
I-133	1.72E-08 uCi/cc
I-134	1.56E-08 uCi/cc
I-135	1.49E-08 uCi/cc
Cs-134	1.92E-09 uCi/cc
Cs-136	7.67E-10 uCi/cc
Cs-137	1.20E-09 uCi/cc
TOTAL WATER SAMPLE	8.16E-08 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.3E+1
For 4" lead shield divide dose rate by: 7.8E+2

TABLE P4. c

WETWELL WATER ACTIVITY CONCENTRATION (T = 03:30) (06:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.92E-09 uCi/cc
Kr-87	4.80E-09 uCi/cc
Kr-88	1.17E-08 uCi/cc
Xe-133	4.98E-08 uCi/cc
Xe-133m	1.63E-09 uCi/cc
Xe-135	1.93E-08 uCi/cc
Xe-138	1.56E-09 uCi/cc
I-131	9.84E-08 uCi/cc
I-132	8.05E-08 uCi/cc
I-133	1.86E-07 uCi/cc
I-134	6.16E-08 uCi/cc
I-135	1.43E-07 uCi/cc
Rb-88	1.57E-08 uCi/cc
Cs-134	2.19E-08 uCi/cc
Cs-136	8.71E-09 uCi/cc
Cs-137	1.37E-08 uCi/cc
TOTAL WATER SAMPLE	7.24E-07 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.5E+1
For 4" lead shield divide dose rate by: 8.8E+2

TABLE P4. d

WETWELL WATER ACTIVITY CONCENTRATION (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.28E-09 uCi/cc
Kr-87	3.53E-09 uCi/cc
Kr-88	9.84E-09 uCi/cc
Xe-133	4.64E-08 uCi/cc
Xe-133m	1.51E-09 uCi/cc
Xe-135	1.90E-08 uCi/cc
I-131	8.72E-08 uCi/cc
I-132	6.24E-08 uCi/cc
I-133	1.62E-07 uCi/cc
I-134	3.83E-08 uCi/cc
I-135	1.21E-07 uCi/cc
Rb-88	9.23E-09 uCi/cc
Cs-134	1.94E-08 uCi/cc
Cs-136	7.73E-09 uCi/cc
Cs-137	1.22E-08 uCi/cc
TOTAL WATER SAMPLE	6.06E-07 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.6E+1
For 4" lead shield divide dose rate by: 9.2E+2

TABLE P4. e

WETWELL WATER ACTIVITY CONCENTRATION (T = 04:30) (07:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-87	4.35E-02 uCi/cc
Kr-88	7.76E-02 uCi/cc
Xe-133	2.36E-01 uCi/cc
Xe-135	1.04E-01 uCi/cc
Br-83	4.07E-01 uCi/cc
Br-84	3.15E-01 uCi/cc
I-131	4.79E+00 uCi/cc
I-132	5.62E+00 uCi/cc
I-133	9.36E+00 uCi/cc
I-134	6.23E+00 uCi/cc
I-135	7.88E+00 uCi/cc
Rb-88	2.40E+00 uCi/cc
Cs-134	1.42E+00 uCi/cc
Cs-136	4.96E-01 uCi/cc
Cs-137	9.67E-01 uCi/cc
Mo-99	5.68E-02 uCi/cc
Tc-99m	5.41E-02 uCi/cc
TOTAL WATER SAMPLE	4.06E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 3.4 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 2.3 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.4E+1
For 4" lead shield divide dose rate by: 8.2E+2

TABLE P4. f

WETWELL WATER ACTIVITY CONCENTRATION (T = 05:00) (08:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-87	4.69E-02 uCi/cc
Kr-88	8.73E-02 uCi/cc
Xe-133	2.81E-01 uCi/cc
Xe-135	1.65E-01 uCi/cc
Br-83	3.96E-01 uCi/cc
Br-84	2.63E-01 uCi/cc
I-131	4.86E+00 uCi/cc
I-132	5.45E+00 uCi/cc
I-133	9.46E+00 uCi/cc
I-134	5.62E+00 uCi/cc
I-135	7.87E+00 uCi/cc
Rb-88	1.74E+00 uCi/cc
Cs-134	1.45E+00 uCi/cc
Cs-136	5.04E-01 uCi/cc
Cs-137	9.82E-01 uCi/cc
Mo-99	5.68E-02 uCi/cc
Tc-99m	5.34E-02 uCi/cc
TOTAL WATER SAMPLE	3.94E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 3.3 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 2.2 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.4E+1
For 4" lead shield divide dose rate by: 8.5E+2

TABLE P4. g

WETWELL WATER ACTIVITY CONCENTRATION (T = 05:30) (08:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-87	4.90E-02 uCi/cc
Kr-88	9.55E-02 uCi/cc
Xe-133	3.23E-01 uCi/cc
Xe-135	2.22E-01 uCi/cc
Br-83	3.84E-01 uCi/cc
Br-84	2.19E-01 uCi/cc
I-131	4.91E+00 uCi/cc
I-132	5.28E+00 uCi/cc
I-133	9.53E+00 uCi/cc
I-134	5.05E+00 uCi/cc
I-135	7.85E+00 uCi/cc
Rb-88	1.28E+00 uCi/cc
Cs-134	1.46E+00 uCi/cc
Cs-136	5.10E-01 uCi/cc
Cs-137	9.94E-01 uCi/cc
Mo-99	5.67E-02 uCi/cc
Tc-99m	5.26E-02 uCi/cc
Ru-103	3.91E-02 uCi/cc
TOTAL WATER SAMPLE	3.84E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 3.2 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 2.1 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.5E+1
For 4" lead shield divide dose rate by: 8.7E+2

TABLE P4. h

WETWELL WATER ACTIVITY CONCENTRATION (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	3.99E-02 uCi/cc
Kr-87	5.03E-02 uCi/cc
Kr-88	1.03E-01 uCi/cc
Xe-133	3.64E-01 uCi/cc
Xe-135	2.75E-01 uCi/cc
Br-83	3.72E-01 uCi/cc
Br-84	1.82E-01 uCi/cc
I-131	4.96E+00 uCi/cc
I-132	5.09E+00 uCi/cc
I-133	9.58E+00 uCi/cc
I-134	4.53E+00 uCi/cc
I-135	7.80E+00 uCi/cc
Rb-88	9.63E-01 uCi/cc
Cs-134	1.48E+00 uCi/cc
Cs-136	5.15E-01 uCi/cc
Cs-137	1.00E+00 uCi/cc
Mo-99	5.67E-02 uCi/cc
Tc-99m	5.18E-02 uCi/cc
Ru-103	3.92E-02 uCi/cc
TOTAL WATER SAMPLE	3.75E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 3.1 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 2.0 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.5E+1
For 4" lead shield divide dose rate by: 8.9E+2

TABLE P4. i

WETWELL WATER ACTIVITY CONCENTRATION (T = 06:30) (09:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.28E-02 uCi/cc
Kr-87	5.08E-02 uCi/cc
Kr-88	1.08E-01 uCi/cc
Xe-133	4.03E-01 uCi/cc
Xe-135	3.25E-01 uCi/cc
Br-83	3.59E-01 uCi/cc
Br-84	1.51E-01 uCi/cc
I-131	5.00E+00 uCi/cc
I-132	4.91E+00 uCi/cc
I-133	9.60E+00 uCi/cc
I-134	4.06E+00 uCi/cc
I-135	7.74E+00 uCi/cc
Rb-88	7.36E-01 uCi/cc
Cs-134	1.49E+00 uCi/cc
Cs-136	5.19E-01 uCi/cc
Cs-137	1.01E+00 uCi/cc
Mo-99	5.67E-02 uCi/cc
Tc-99m	5.10E-02 uCi/cc
Ru-103	3.92E-02 uCi/cc
TOTAL WATER SAMPLE	3.67E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 3.0 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 2.0 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.6E+1
For 4" lead shield divide dose rate by: 9.1E+2

TABLE P4. j

WETWELL WATER ACTIVITY CONCENTRATION (T = 07:00) (10:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.53E-02 uCi/cc
Kr-87	5.08E-02 uCi/cc
Kr-88	1.13E-01 uCi/cc
Xe-133	4.39E-01 uCi/cc
Xe-135	3.71E-01 uCi/cc
Br-83	3.46E-01 uCi/cc
Br-84	1.24E-01 uCi/cc
I-131	5.03E+00 uCi/cc
I-132	4.72E+00 uCi/cc
I-133	9.62E+00 uCi/cc
I-134	3.63E+00 uCi/cc
I-135	7.67E+00 uCi/cc
Rb-88	5.75E-01 uCi/cc
Cs-134	1.50E+00 uCi/cc
Cs-136	5.22E-01 uCi/cc
Cs-137	1.02E+00 uCi/cc
Mo-99	5.66E-02 uCi/cc
Tc-99m	5.03E-02 uCi/cc
Ru-103	3.92E-02 uCi/cc
TOTAL WATER SAMPLE	3.59E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 2.9 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 1.9 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.6E+1
For 4" lead shield divide dose rate by: 9.3E+2

TABLE P4. k

WETWELL WATER ACTIVITY CONCENTRATION (T = 07:30) (10:30)

Provide current Chem data 30 minutes afte

TABLE P4. k

WETWELL WATER ACTIVITY CONCENTRATION (T = 07:30) (10:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.76E-02 uCi/cc
Kr-87	5.03E-02 uCi/cc
Kr-88	1.18E-01 uCi/cc
Xe-133	4.75E-01 uCi/cc
Xe-135	4.14E-01 uCi/cc
Br-83	3.33E-01 uCi/cc
Br-84	1.03E-01 uCi/cc
I-131	5.05E+00 uCi/cc
I-132	4.54E+00 uCi/cc
I-133	9.62E+00 uCi/cc
I-134	3.24E+00 uCi/cc
I-135	7.59E+00 uCi/cc
Rb-88	4.61E-01 uCi/cc
Cs-134	1.51E+00 uCi/cc
Cs-136	5.24E-01 uCi/cc
Cs-137	1.02E+00 uCi/cc
Mo-99	5.65E-02 uCi/cc
Tc-99m	4.95E-02 uCi/cc
Ru-103	3.92E-02 uCi/cc
TOTAL WATER SAMPLE	3.53E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 2.8 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 1.9 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.7E+1
For 4" lead shield divide dose rate by: 9.5E+2

TABLE P4. 1

WETWELL WATER ACTIVITY CONCENTRATION (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.96E-02 uCi/cc
Kr-87	4.95E-02 uCi/cc
Kr-88	1.21E-01 uCi/cc
Xe-133	5.08E-01 uCi/cc
Xe-135	4.55E-01 uCi/cc
Br-83	3.20E-01 uCi/cc
Br-84	8.48E-02 uCi/cc
I-131	5.07E+00 uCi/cc
I-132	4.36E+00 uCi/cc
I-133	9.61E+00 uCi/cc
I-134	2.89E+00 uCi/cc
I-135	7.50E+00 uCi/cc
Rb-88	3.79E-01 uCi/cc
Cs-134	1.51E+00 uCi/cc
Cs-136	5.26E-01 uCi/cc
Cs-137	1.03E+00 uCi/cc
Mo-99	5.65E-02 uCi/cc
Tc-99m	4.87E-02 uCi/cc
Ru-103	3.92E-02 uCi/cc
TOTAL WATER SAMPLE	3.46E+01 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: 2.8 mR/hr
PASS Sample (10. ml) Dose Rate at 1 ft.: 1.8 mR/hr
PASS Sample (0.1 ml) Dose Rate at 1 ft.: < 0.1 mR/hr

For 2" lead shield divide dose rate by: 3.7E+1
For 4" lead shield divide dose rate by: 9.7E+2

TABLE P5. a

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.95E-10 uCi/cc
Kr-87	3.39E-10 uCi/cc
Kr-88	5.36E-10 uCi/cc
Xe-133	1.46E-09 uCi/cc
Xe-133m	5.06E-11 uCi/cc
Xe-135	5.10E-10 uCi/cc
Xe-138	6.09E-10 uCi/cc
TOTAL GAS SAMPLE	3.71E-09 uCi/cc
I-131	4.59E-11 uCi/cc
I-132	5.97E-11 uCi/cc
I-133	1.10E-10 uCi/cc
I-134	7.65E-11 uCi/cc
I-135	1.05E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	3.97E-10 uCi/cc
Cs-134	1.00E-11 uCi/cc
Cs-136	3.99E-12 uCi/cc
Cs-137	6.51E-12 uCi/cc
Np-239	2.43E-12 uCi/cc
TOTAL FILTER SAMPLE	2.33E-11 uCi/cc

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TABLE P5. a

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 00:00) (03:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.3E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 0.2 mRem/hr
Net Air Sample Contact Rate: 2.4 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.6E+2 Hours
Stay Time: 2 MPC hr (in mask):8.0E+3 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):3.2E+5 Hours

TABLE P5. b

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 03:00) (06:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.40E-09 uCi/cc
Kr-87	1.65E-09 uCi/cc
Kr-88	3.51E-09 uCi/cc
Xe-133	1.24E-08 uCi/cc
Xe-133m	4.29E-10 uCi/cc
Xe-135	2.77E-09 uCi/cc
Xe-138	8.02E-10 uCi/cc
TOTAL GAS SAMPLE	2.31E-08 uCi/cc
I-131	1.68E-10 uCi/cc
I-132	1.73E-10 uCi/cc
I-133	3.26E-10 uCi/cc
I-134	1.77E-10 uCi/cc
I-135	2.66E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	1.11E-09 uCi/cc
Rb-88	2.42E-10 uCi/cc
Cs-134	5.87E-11 uCi/cc
Cs-136	2.34E-11 uCi/cc
Cs-137	3.68E-11 uCi/cc
TOTAL FILTER SAMPLE	3.61E-10 uCi/cc

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TABLE P5. b

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 03:00) (06:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 0.5 mRem/hr
Net Air Sample Contact Rate: 8.3 cpm/cf sample

Floor Contamination: 0.4 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):4.6E+1 Hours
Stay Time: 2 MPC hr (in mask):2.3E+3 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.3E+4 Hours

TABLE P5. c

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 03:30) (06:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.61E-09 uCi/cc
Kr-87	1.79E-09 uCi/cc
Kr-88	3.96E-09 uCi/cc
Xe-133	1.47E-08 uCi/cc
Xe-133m	5.08E-10 uCi/cc
Xe-135	3.30E-09 uCi/cc
Xe-138	8.01E-10 uCi/cc
TOTAL GAS SAMPLE	2.68E-08 uCi/cc
I-131	1.78E-10 uCi/cc
I-132	1.78E-10 uCi/cc
I-133	3.44E-10 uCi/cc
I-134	1.79E-10 uCi/cc
I-135	2.78E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	1.16E-09 uCi/cc
Rb-88	2.83E-10 uCi/cc
Cs-134	6.49E-11 uCi/cc
Cs-136	2.58E-11 uCi/cc
Cs-137	4.07E-11 uCi/cc
TOTAL FILTER SAMPLE	4.15E-10 uCi/cc

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TABLE P5. c

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 03:30) (06:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 0.5 mRem/hr
Net Air Sample Contact Rate: 8.9 cpm/cf sample

Floor Contamination: 0.4 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):4.3E+1 Hours
Stay Time: 2 MPC hr (in mask):2.2E+3 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):8.7E+4 Hours

TABLE P5. d

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 03:45) (06:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.17E-07 uCi/cc
Kr-87	1.30E-06 uCi/cc
Kr-88	2.21E-06 uCi/cc
Xe-133	6.34E-06 uCi/cc
Xe-133m	2.20E-07 uCi/cc
Xe-135	1.66E-06 uCi/cc
Xe-138	1.34E-06 uCi/cc
TOTAL GAS SAMPLE	1.39E-05 uCi/cc
I-131	1.77E-07 uCi/cc
I-132	2.11E-07 uCi/cc
I-133	3.49E-07 uCi/cc
I-134	2.61E-07 uCi/cc
I-135	2.96E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	1.29E-06 uCi/cc
Rb-88	1.14E-07 uCi/cc
Cs-134	4.31E-08 uCi/cc
Cs-136	1.72E-08 uCi/cc
Cs-137	2.71E-08 uCi/cc
TOTAL FILTER SAMPLE	2.02E-07 uCi/cc

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TABLE P5. d

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 03:45) (06:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:4.1E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.9%

Airborne Beta Dose Rate: 4.4 mRad/hr
Airborne Thyroid Dose Rate: 540. mRem/hr
Air Sample Contact Rate: 2.8 mR/hr / cf sample

Floor Contamination: 46. cpm/100cm2
Wall and Equipment Contamination: 4.6 cpm/100cm2
Personnel Contamination Rate: 0.9 cpm/100cm2 per minute
Personnel Contamination Rate: 0.9 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):4.7E-2 Hours
Stay Time: 2 MPC hr (in mask):2.3E+0 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.3E+1 Hours

TABLE P5. e

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.20E-07 uCi/cc
Kr-87	1.35E-06 uCi/cc
Kr-88	2.44E-06 uCi/cc
Xe-133	7.36E-06 uCi/cc
Xe-133m	2.55E-07 uCi/cc
Xe-135	1.90E-06 uCi/cc
Xe-138	8.58E-07 uCi/cc
TOTAL GAS SAMPLE	1.52E-05 uCi/cc
I-131	1.67E-07 uCi/cc
I-132	1.87E-07 uCi/cc
I-133	3.27E-07 uCi/cc
I-134	2.09E-07 uCi/cc
I-135	2.73E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	1.16E-06 uCi/cc
Rb-88	1.23E-07 uCi/cc
Cs-134	4.52E-08 uCi/cc
Cs-136	1.80E-08 uCi/cc
Cs-137	2.83E-08 uCi/cc
TOTAL FILTER SAMPLE	2.15E-07 uCi/cc

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TABLE P5. e

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:00) (07:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:4.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.8%

Airborne Beta Dose Rate: 4.5 mRad/hr
Airborne Thyroid Dose Rate: 510. mRem/hr
Air Sample Contact Rate: 2.6 mR/hr / cf sample

Floor Contamination: 98. cpm/100cm2
Wall and Equipment Contamination: 9.8 cpm/100cm2
Personnel Contamination Rate: 0.8 cpm/100cm2 per minute
Personnel Contamination Rate: 0.8 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):4.9E-2 Hours
Stay Time: 2 MPC hr (in mask):2.5E+0 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.8E+1 Hours

TABLE P5. f

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:15) (07:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	6.93E-03 uCi/cc
Kr-87	1.08E-02 uCi/cc
Kr-88	1.87E-02 uCi/cc
Xe-133	5.48E-02 uCi/cc
Xe-133m	1.89E-03 uCi/cc
Xe-135	1.77E-02 uCi/cc
Xe-138	9.35E-03 uCi/cc
TOTAL GAS SAMPLE	1.21E-01 uCi/cc
Br-83	1.12E-03 uCi/cc
Br-84	9.53E-04 uCi/cc
I-131	1.28E-02 uCi/cc
I-132	1.55E-02 uCi/cc
I-133	2.52E-02 uCi/cc
I-134	1.80E-02 uCi/cc
I-135	2.13E-02 uCi/cc
TOTAL CHARCOAL SAMPLE	9.48E-02 uCi/cc
Rb-88	8.33E-03 uCi/cc
Cs-134	4.04E-03 uCi/cc
Cs-136	1.41E-03 uCi/cc
Cs-137	2.74E-03 uCi/cc
TOTAL FILTER SAMPLE	1.69E-02 uCi/cc

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TABLE P5. f

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:15) (07:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 15. mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 2.5 mR/hr per cf

For 2" lead shield divide dose rate by:3.0E+1
For 4" lead shield divide dose rate by:6.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.7%

Airborne Beta Dose Rate: 3.8E4 mRad/hr
Airborne Thyroid Dose Rate: 3.9E7 mRem/hr
Air Sample Contact Rate: 2.1E5 mR/hr / cf sample

Floor Contamination: 630. mR/100cm2
Wall and Equipment Contamination: 63. mR/100cm2
Personnel Contamination Rate: 22. mR/100cm2 per minute
Personnel Contamination Rate: 22. mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):7.3E-7 Hours
Stay Time: 2 MPC hr (in mask):3.7E-5 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.5E-3 Hours

TABLE P5. g

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:30) (07:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.93E-03 uCi/cc
Kr-87	1.49E-02 uCi/cc
Kr-88	2.66E-02 uCi/cc
Xe-133	7.96E-02 uCi/cc
Xe-133m	2.75E-03 uCi/cc
Xe-135	2.58E-02 uCi/cc
Xe-138	1.04E-02 uCi/cc
TOTAL GAS SAMPLE	1.71E-01 uCi/cc
Br-83	1.21E-03 uCi/cc
I-131	1.42E-02 uCi/cc
I-132	1.66E-02 uCi/cc
I-133	2.77E-02 uCi/cc
I-134	1.84E-02 uCi/cc
I-135	2.33E-02 uCi/cc
TOTAL CHARCOAL SAMPLE	1.02E-01 uCi/cc
Rb-88	8.58E-03 uCi/cc
Cs-134	4.96E-03 uCi/cc
Cs-136	1.73E-03 uCi/cc
Cs-137	3.37E-03 uCi/cc
TOTAL FILTER SAMPLE	1.91E-02 uCi/cc

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TABLE P5. g

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:30) (07:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 16. mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 2.9 mR/hr per cf

For 2" lead shield divide dose rate by:2.9E+1
For 4" lead shield divide dose rate by:5.8E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 5.2E4 mRad/hr
Airborne Thyroid Dose Rate: 4.3E7 mRem/hr
Air Sample Contact Rate: 2.3E5 mR/hr / cf sample

Floor Contamination: 2200. mR/100cm2
Wall and Equipment Contamination: 220. mR/100cm2
Personnel Contamination Rate: 24. mR/100cm2 per minute
Personnel Contamination Rate: 24. mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):6.6E-7 Hours
Stay Time: 2 MPC hr (in mask):3.3E-5 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.3E-3 Hours

TABLE P5. h

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:45) (07:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.67E-03 uCi/cc
Kr-87	1.41E-02 uCi/cc
Kr-88	2.57E-02 uCi/cc
Xe-133	7.84E-02 uCi/cc
Xe-133m	2.70E-03 uCi/cc
Xe-135	2.53E-02 uCi/cc
Xe-138	8.21E-03 uCi/cc
TOTAL GAS SAMPLE	1.65E-01 uCi/cc
Br-83	8.74E-04 uCi/cc
I-131	1.05E-02 uCi/cc
I-132	1.20E-02 uCi/cc
I-133	2.05E-02 uCi/cc
I-134	1.29E-02 uCi/cc
I-135	1.71E-02 uCi/cc
TOTAL CHARCOAL SAMPLE	7.45E-02 uCi/cc
Rb-88	6.46E-03 uCi/cc
Cs-134	4.24E-03 uCi/cc
Cs-136	1.48E-03 uCi/cc
Cs-137	2.88E-03 uCi/cc
TOTAL FILTER SAMPLE	1.55E-02 uCi/cc

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TABLE P5. h

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 04:45) (07:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 12. mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 2.3 mR/hr per cf

For 2" lead shield divide dose rate by:2.9E+1
For 4" lead shield divide dose rate by:5.5E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 4.9E4 mRad/hr
Airborne Thyroid Dose Rate: 3.2E7 mRem/hr
Air Sample Contact Rate: 1.7E5 mR/hr / cf sample

Floor Contamination: 3600. mR/100cm2
Wall and Equipment Contamination: 360. mR/100cm2
Personnel Contamination Rate: 17. mR/100cm2 per minute
Personnel Contamination Rate: 17. mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):8.8E-7 Hours
Stay Time: 2 MPC hr (in mask):4.4E-5 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.8E-3 Hours

TABLE P5. i

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:00) (08:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.39E-03 uCi/cc
Kr-87	1.33E-02 uCi/cc
Kr-88	2.48E-02 uCi/cc
Xe-133	7.70E-02 uCi/cc
Xe-133m	2.65E-03 uCi/cc
Xe-135	2.48E-02 uCi/cc
Xe-138	6.47E-03 uCi/cc
TOTAL GAS SAMPLE	1.59E-01 uCi/cc
Br-83	6.35E-04 uCi/cc
I-131	7.78E-03 uCi/cc
I-132	8.73E-03 uCi/cc
I-133	1.52E-02 uCi/cc
I-134	9.00E-03 uCi/cc
I-135	1.26E-02 uCi/cc
TOTAL CHARCOAL SAMPLE	5.43E-02 uCi/cc
Rb-88	4.93E-03 uCi/cc
Cs-134	3.63E-03 uCi/cc
Cs-136	1.26E-03 uCi/cc
Cs-137	2.46E-03 uCi/cc
TOTAL FILTER SAMPLE	1.26E-02 uCi/cc

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TABLE P5. i

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:00) (08:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 8.7 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 1.9 mR/hr per cf

For 2" lead shield divide dose rate by:2.8E+1
For 4" lead shield divide dose rate by:5.3E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 4.6E4 mRad/hr
Airborne Thyroid Dose Rate: 2.4E7 mRem/hr
Air Sample Contact Rate: 1.3E5 mR/hr / cf sample

Floor Contamination: 4500. mR/100cm2
Wall and Equipment Contamination: 450. mR/100cm2
Personnel Contamination Rate: 13. mR/100cm2 per minute
Personnel Contamination Rate: 13. mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.2E-6 Hours
Stay Time: 2 MPC hr (in mask):5.9E-5 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.4E-3 Hours

TABLE P5. j

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:15) (08:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.12E-03 uCi/cc
Kr-87	1.25E-02 uCi/cc
Kr-88	2.39E-02 uCi/cc
Xe-133	7.56E-02 uCi/cc
Xe-133m	2.60E-03 uCi/cc
Xe-135	2.42E-02 uCi/cc
Xe-138	5.10E-03 uCi/cc
TOTAL GAS SAMPLE	1.54E-01 uCi/cc
Br-83	4.61E-04 uCi/cc
I-131	5.77E-03 uCi/cc
I-132	6.34E-03 uCi/cc
I-133	1.12E-02 uCi/cc
I-134	6.29E-03 uCi/cc
I-135	9.29E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	3.97E-02 uCi/cc
Rb-88	3.82E-03 uCi/cc
Cs-134	3.10E-03 uCi/cc
Cs-136	1.08E-03 uCi/cc
Cs-137	2.11E-03 uCi/cc
TOTAL FILTER SAMPLE	1.04E-02 uCi/cc

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TABLE P5. j

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:15) (08:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 6.4 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 1.6 mR/hr per cf

For 2" lead shield divide dose rate by:2.8E+1
For 4" lead shield divide dose rate by:5.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 4.4E4 mRad/hr
Airborne Thyroid Dose Rate: 1.7E7 mRem/hr
Air Sample Contact Rate: 9.4E4 mR/hr / cf sample

Floor Contamination: 5200. mR/100cm2
Wall and Equipment Contamination: 520. mR/100cm2
Personnel Contamination Rate: 9.3 mR/100cm2 per minute
Personnel Contamination Rate: 9.3 mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.6E-6 Hours
Stay Time: 2 MPC hr (in mask):7.8E-5 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):3.1E-3 Hours

TABLE P5. k

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:30) (08:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.86E-03 uCi/cc
Kr-87	1.18E-02 uCi/cc
Kr-88	2.31E-02 uCi/cc
Xe-133	7.42E-02 uCi/cc
Xe-133m	2.56E-03 uCi/cc
Xe-135	2.37E-02 uCi/cc
Xe-138	4.02E-03 uCi/cc
TOTAL GAS SAMPLE	1.49E-01 uCi/cc
Br-83	3.35E-04 uCi/cc
I-131	4.29E-03 uCi/cc
I-132	4.60E-03 uCi/cc
I-133	8.31E-03 uCi/cc
I-134	4.40E-03 uCi/cc
I-135	6.84E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	2.90E-02 uCi/cc
Rb-88	3.02E-03 uCi/cc
Cs-134	2.66E-03 uCi/cc
Cs-136	9.25E-04 uCi/cc
Cs-137	1.80E-03 uCi/cc
TOTAL FILTER SAMPLE	8.66E-03 uCi/cc

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TABLE P5. k

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:30) (08:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 4.7 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 1.3 mR/hr per cf

For 2" lead shield divide dose rate by:2.7E+1
For 4" lead shield divide dose rate by:4.8E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 4.2E4 mRad/hr
Airborne Thyroid Dose Rate: 1.3E7 mRem/hr
Air Sample Contact Rate: 7.1E4 mR/hr / cf sample

Floor Contamination: 5600. mR/100cm2
Wall and Equipment Contamination: 560. mR/100cm2
Personnel Contamination Rate: 6.8 mR/100cm2 per minute
Personnel Contamination Rate: 6.8 mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):2.1E-6 Hours
Stay Time: 2 MPC hr (in mask):1.0E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):4.1E-3 Hours

TABLE P5. 1

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:45) (08:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.60E-03 uCi/cc
Kr-87	1.12E-02 uCi/cc
Kr-88	2.22E-02 uCi/cc
Xe-133	7.29E-02 uCi/cc
Xe-133m	2.51E-03 uCi/cc
Xe-135	2.32E-02 uCi/cc
Xe-138	3.17E-03 uCi/cc
TOTAL GAS SAMPLE	1.45E-01 uCi/cc
Br-83	2.44E-04 uCi/cc
I-131	3.19E-03 uCi/cc
I-132	3.35E-03 uCi/cc
I-133	6.17E-03 uCi/cc
I-134	3.09E-03 uCi/cc
I-135	5.05E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	2.12E-02 uCi/cc
Rb-88	2.43E-03 uCi/cc
Cs-134	2.27E-03 uCi/cc
Cs-136	7.92E-04 uCi/cc
Cs-137	1.54E-03 uCi/cc
TOTAL FILTER SAMPLE	7.26E-03 uCi/cc

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TABLE P5. 1

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 05:45) (08:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 3.4 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 1.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.6E+1
For 4" lead shield divide dose rate by:4.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 4.0E4 mRad/hr
Airborne Thyroid Dose Rate: 9.6E6 mRem/hr
Air Sample Contact Rate: 5.4E4 mR/hr / cf sample

Floor Contamination: 6000. mR/100cm2
Wall and Equipment Contamination: 600. mR/100cm2
Personnel Contamination Rate: 5.0 mR/100cm2 per minute
Personnel Contamination Rate: 5.0 mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):2.7E-6 Hours
Stay Time: 2 MPC hr (in mask):1.4E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):5.4E-3 Hours

TABLE P5. m

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:00) (09:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 2.5 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.9 mR/hr per cf

For 2" lead shield divide dose rate by:2.6E+1
For 4" lead shield divide dose rate by:4.5E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.8E4 mRad/hr
Airborne Thyroid Dose Rate: 7.1E6 mRem/hr
Air Sample Contact Rate: 4.1E4 mR/hr / cf sample

Floor Contamination: 6200. mR/100cm2
Wall and Equipment Contamination: 620. mR/100cm2
Personnel Contamination Rate: 3.7 mR/100cm2 per minute
Personnel Contamination Rate: 3.7 mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):3.6E-6 Hours
Stay Time: 2 MPC hr (in mask):1.8E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):7.1E-3 Hours

TABLE P5. n

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:15) (09:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.11E-03 uCi/cc
Kr-87	9.92E-03 uCi/cc
Kr-88	2.07E-02 uCi/cc
Xe-133	7.03E-02 uCi/cc
Xe-133m	2.42E-03 uCi/cc
Xe-135	2.22E-02 uCi/cc
Xe-138	1.97E-03 uCi/cc
TOTAL GAS SAMPLE	1.36E-01 uCi/cc
Br-83	1.30E-04 uCi/cc
I-131	1.77E-03 uCi/cc
I-132	1.78E-03 uCi/cc
I-133	3.41E-03 uCi/cc
I-134	1.52E-03 uCi/cc
I-135	2.76E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	1.14E-02 uCi/cc
Rb-88	1.69E-03 uCi/cc
Cs-134	1.67E-03 uCi/cc
Cs-136	5.82E-04 uCi/cc
Cs-137	1.14E-03 uCi/cc
TOTAL FILTER SAMPLE	5.23E-03 uCi/cc

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TABLE P5. n

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:15) (09:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 1.9 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.8 mR/hr per cf

For 2" lead shield divide dose rate by:2.6E+1
For 4" lead shield divide dose rate by:4.3E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.7E4 mRad/hr
Airborne Thyroid Dose Rate: 5.3E6 mRem/hr
Air Sample Contact Rate: 3.1E4 mR/hr / cf sample

Floor Contamination: 6300. mR/100cm2
Wall and Equipment Contamination: 630. mR/100cm2
Personnel Contamination Rate: 2.8 mR/100cm2 per minute
Personnel Contamination Rate: 2.8 mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):4.6E-6 Hours
Stay Time: 2 MPC hr (in mask):2.3E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.2E-3 Hours

TABLE P5. o

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:30) (09:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.88E-03 uCi/cc
Kr-87	9.36E-03 uCi/cc
Kr-88	2.00E-02 uCi/cc
Xe-133	6.91E-02 uCi/cc
Xe-133m	2.37E-03 uCi/cc
Xe-135	2.17E-02 uCi/cc
Xe-138	1.55E-03 uCi/cc
TOTAL GAS SAMPLE	1.33E-01 uCi/cc
Br-83	9.52E-05 uCi/cc
I-131	1.33E-03 uCi/cc
I-132	1.30E-03 uCi/cc
I-133	2.55E-03 uCi/cc
I-134	1.08E-03 uCi/cc
I-135	2.05E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	8.44E-03 uCi/cc
Rb-88	1.45E-03 uCi/cc
Cs-134	1.44E-03 uCi/cc
Cs-136	4.99E-04 uCi/cc
Cs-137	9.74E-04 uCi/cc
TOTAL FILTER SAMPLE	4.49E-03 uCi/cc

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TABLE P5. o

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:30) (09:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 1.4 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.7 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.2E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.5E4 mRad/hr
Airborne Thyroid Dose Rate: 4.0E6 mRem/hr
Air Sample Contact Rate: 2.4E4 mR/hr / cf sample

Floor Contamination: 6400. mR/100cm2
Wall and Equipment Contamination: 640. mR/100cm2
Personnel Contamination Rate: 2.1 mR/100cm2 per minute
Personnel Contamination Rate: 2.1 mR/100cm2 per minute
Stay Time: 2 MPC hr (no mask):5.9E-6 Hours
Stay Time: 2 MPC hr (in mask):3.0E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.2E-2 Hours

TABLE P5. p

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:45) (09:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.65E-03 uCi/cc
Kr-87	8.83E-03 uCi/cc
Kr-88	1.93E-02 uCi/cc
Xe-133	6.79E-02 uCi/cc
Xe-133m	2.33E-03 uCi/cc
Xe-135	2.12E-02 uCi/cc
TOTAL GAS SAMPLE	1.29E-01 uCi/cc
Br-83	7.01E-05 uCi/cc
I-131	9.98E-04 uCi/cc
I-132	9.57E-04 uCi/cc
I-133	1.91E-03 uCi/cc
I-134	7.62E-04 uCi/cc
I-135	1.53E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	6.26E-03 uCi/cc
Rb-88	1.27E-03 uCi/cc
Cs-134	1.23E-03 uCi/cc
Cs-136	4.29E-04 uCi/cc
Cs-137	8.37E-04 uCi/cc
TOTAL FILTER SAMPLE	3.88E-03 uCi/cc

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TABLE P5. p

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 06:45) (09:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 1.0 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.6 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.1E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.4E4 mRad/hr
Airborne Thyroid Dose Rate: 3.0E6 mRem/hr
Air Sample Contact Rate: 1.9E4 mR/hr / cf sample

Floor Contamination: 6400. mR/100cm2
Wall and Equipment Contamination: 640. mR/100cm2
Personnel Contamination Rate: 4700. cpm/100cm2 per minute
Personnel Contamination Rate: 4700. cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):7.5E-6 Hours
Stay Time: 2 MPC hr (in mask):3.7E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.5E-2 Hours

TABLE P5. q

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 07:00) (10:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.43E-03 uCi/cc
Kr-87	8.33E-03 uCi/cc
Kr-88	1.86E-02 uCi/cc
Xe-133	6.67E-02 uCi/cc
Xe-133m	2.29E-03 uCi/cc
Xe-135	2.07E-02 uCi/cc
TOTAL GAS SAMPLE	1.26E-01 uCi/cc
Br-83	5.18E-05 uCi/cc
I-131	7.54E-04 uCi/cc
I-132	7.08E-04 uCi/cc
I-133	1.44E-03 uCi/cc
I-134	5.43E-04 uCi/cc
I-135	1.15E-03 uCi/cc
TOTAL CHARCOAL SAMPLE	4.67E-03 uCi/cc
Rb-88	1.14E-03 uCi/cc
Cs-134	1.06E-03 uCi/cc
Cs-136	3.69E-04 uCi/cc
Cs-137	7.20E-04 uCi/cc
TOTAL FILTER SAMPLE	3.38E-03 uCi/cc

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TABLE P5. q

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 07:00) (10:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 0.8 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.5 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.1E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.3E4 mRad/hr
Airborne Thyroid Dose Rate: 2.3E6 mRem/hr
Air Sample Contact Rate: 1.5E4 mR/hr / cf sample

Floor Contamination: 6400. mR/100cm2
Wall and Equipment Contamination: 640. mR/100cm2
Personnel Contamination Rate: 3600. cpm/100cm2 per minute
Personnel Contamination Rate: 3600. cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):9.4E-6 Hours
Stay Time: 2 MPC hr (in mask):4.7E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.9E-2 Hours

TABLE P5. r

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 07:15) (10:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.22E-03 uCi/cc
Kr-87	7.86E-03 uCi/cc
Kr-88	1.79E-02 uCi/cc
Xe-133	6.55E-02 uCi/cc
Xe-133m	2.25E-03 uCi/cc
Xe-135	2.02E-02 uCi/cc
TOTAL GAS SAMPLE	1.22E-01 uCi/cc
Br-83	3.87E-05 uCi/cc
I-131	5.74E-04 uCi/cc
I-132	5.27E-04 uCi/cc
I-133	1.10E-03 uCi/cc
I-134	3.90E-04 uCi/cc
I-135	8.69E-04 uCi/cc
TOTAL CHARCOAL SAMPLE	3.51E-03 uCi/cc
Rb-88	1.03E-03 uCi/cc
Cs-134	9.14E-04 uCi/cc
Cs-136	3.18E-04 uCi/cc
Cs-137	6.21E-04 uCi/cc
TOTAL FILTER SAMPLE	2.96E-03 uCi/cc

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TABLE P5. r

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 07:15) (10:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 0.6 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.5 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.1E4 mRad/hr
Airborne Thyroid Dose Rate: 1.7E6 mRem/hr
Air Sample Contact Rate: 1.2E4 mR/hr / cf sample

Floor Contamination: 6400. mR/100cm2
Wall and Equipment Contamination: 640. mR/100cm2
Personnel Contamination Rate: 2700. cpm/100cm2 per minute
Personnel Contamination Rate: 2700. cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.2E-5 Hours
Stay Time: 2 MPC hr (in mask):5.8E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.3E-2 Hours

TABLE P5. s

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 07:30) (10:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.01E-03 uCi/cc
Kr-87	7.41E-03 uCi/cc
Kr-88	1.73E-02 uCi/cc
Xe-133	6.43E-02 uCi/cc
Xe-133m	2.20E-03 uCi/cc
Xe-135	1.98E-02 uCi/cc
TOTAL GAS SAMPLE	1.19E-01 uCi/cc
Br-83	2.91E-05 uCi/cc
I-131	4.42E-04 uCi/cc
I-132	3.96E-04 uCi/cc
I-133	8.41E-04 uCi/cc
I-134	2.83E-04 uCi/cc
I-135	6.63E-04 uCi/cc
TOTAL CHARCOAL SAMPLE	2.66E-03 uCi/cc
Rb-88	9.47E-04 uCi/cc
Cs-134	7.89E-04 uCi/cc
Cs-136	2.74E-04 uCi/cc
Cs-137	5.36E-04 uCi/cc
TOTAL FILTER SAMPLE	2.61E-03 uCi/cc

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TABLE P5. s

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 07:30) (10:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 0.4 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.4 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 3.0E4 mRad/hr
Airborne Thyroid Dose Rate: 1.3E6 mRem/hr
Air Sample Contact Rate: 9900. mR/hr / cf sample

Floor Contamination: 6300. mR/100cm2
Wall and Equipment Contamination: 630. mR/100cm2
Personnel Contamination Rate: 2100. cpm/100cm2 per minute
Personnel Contamination Rate: 2100. cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.4E-5 Hours
Stay Time: 2 MPC hr (in mask):7.0E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.8E-2 Hours

TABLE P5. t

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	6.62E-03 uCi/cc
Kr-87	6.60E-03 uCi/cc
Kr-88	1.61E-02 uCi/cc
Xe-133	6.21E-02 uCi/cc
Xe-133m	2.13E-03 uCi/cc
Xe-135	1.89E-02 uCi/cc
TOTAL GAS SAMPLE	1.13E-01 uCi/cc
Br-83	1.71E-05 uCi/cc
I-131	2.71E-04 uCi/cc
I-132	2.32E-04 uCi/cc
I-133	5.13E-04 uCi/cc
I-134	1.54E-04 uCi/cc
I-135	4.00E-04 uCi/cc
TOTAL CHARCOAL SAMPLE	1.59E-03 uCi/cc
Rb-88	8.24E-04 uCi/cc
Cs-134	5.91E-04 uCi/cc
Cs-136	2.05E-04 uCi/cc
Cs-137	4.01E-04 uCi/cc
TOTAL FILTER SAMPLE	2.07E-03 uCi/cc

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TABLE P5. t

RX BLDG & REFUEL FLOOR ACT. CONC. (T = 08:00) (11:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: 0.3 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: 0.3 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

Airborne Beta Dose Rate: 2.8E4 mRad/hr
Airborne Thyroid Dose Rate: 8.1E5 mRem/hr
Air Sample Contact Rate: 6900. mR/hr / cf sample

Floor Contamination: 6200. mR/100cm2
Wall and Equipment Contamination: 620. mR/100cm2
Personnel Contamination Rate: 1300. cpm/100cm2 per minute
Personnel Contamination Rate: 1300. cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):2.0E-5 Hours
Stay Time: 2 MPC hr (in mask):9.9E-4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):3.9E-2 Hours

TABLE P6. a

RX BLDG ELEVATED RELEASE POINT CONC. (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	2.46E-10 uCi/cc
Kr-87	4.33E-10 uCi/cc
Kr-88	6.80E-10 uCi/cc
Xe-133	1.84E-09 uCi/cc
Xe-133m	6.38E-11 uCi/cc
Xe-135	5.93E-10 uCi/cc
Xe-138	8.23E-10 uCi/cc
TOTAL GAS SAMPLE	4.69E-09 uCi/cc
I-131	4.42E-11 uCi/cc
I-132	5.80E-11 uCi/cc
I-133	1.07E-10 uCi/cc
I-134	7.45E-11 uCi/cc
I-135	1.04E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	3.88E-10 uCi/cc
Cs-134	9.50E-12 uCi/cc
Cs-136	3.79E-12 uCi/cc
Cs-137	6.20E-12 uCi/cc
Np-239	2.53E-12 uCi/cc
TOTAL FILTER SAMPLE	2.24E-11 uCi/cc

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TABLE P6. a

RX BLDG ELEVATED RELEASE POINT CONC. (T = 00:00) (03:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:4.1E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

TABLE P6. b

RX BLDG ELEVATED RELEASE POINT CONC. (T = 03:00) (06:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.04E-08 uCi/cc
Kr-87	1.16E-08 uCi/cc
Kr-88	2.57E-08 uCi/cc
Xe-133	9.40E-08 uCi/cc
Xe-133m	3.26E-09 uCi/cc
Xe-135	1.97E-08 uCi/cc
Xe-138	5.05E-09 uCi/cc
TOTAL GAS SAMPLE	1.70E-07 uCi/cc
I-131	1.35E-13 uCi/cc
I-132	1.27E-13 uCi/cc
I-133	2.60E-13 uCi/cc
I-134	1.15E-13 uCi/cc
I-135	2.07E-13 uCi/cc
TOTAL CHARCOAL SAMPLE	8.43E-13 uCi/cc
Rb-88	1.47E-11 uCi/cc
TOTAL FILTER SAMPLE	1.49E-11 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

TABLE P6. c

RX BLDG ELEVATED RELEASE POINT CONC. (T = 03:30) (06:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.18E-08 uCi/cc
Kr-87	1.24E-08 uCi/cc
Kr-88	2.87E-08 uCi/cc
Xe-133	1.11E-07 uCi/cc
Xe-133m	3.83E-09 uCi/cc
Xe-135	2.33E-08 uCi/cc
Xe-138	5.05E-09 uCi/cc
TOTAL GAS SAMPLE	1.97E-07 uCi/cc
I-131	1.54E-13 uCi/cc
I-132	1.36E-13 uCi/cc
I-133	2.92E-13 uCi/cc
I-134	1.17E-13 uCi/cc
I-135	2.30E-13 uCi/cc
TOTAL CHARCOAL SAMPLE	9.29E-13 uCi/cc
Rb-88	1.67E-11 uCi/cc
TOTAL FILTER SAMPLE	1.70E-11 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

TABLE P6. d

RX BLDG ELEVATED RELEASE POINT CONC. (T = 03:45) (06:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.25E-07 uCi/cc
Kr-87	1.18E-06 uCi/cc
Kr-88	1.97E-06 uCi/cc
Xe-133	5.58E-06 uCi/cc
Xe-133m	1.94E-07 uCi/cc
Xe-135	1.46E-06 uCi/cc
Xe-138	1.36E-06 uCi/cc
TOTAL GAS SAMPLE	1.25E-05 uCi/cc
I-131	4.97E-11 uCi/cc
I-132	6.01E-11 uCi/cc
I-133	9.79E-11 uCi/cc
I-134	7.61E-11 uCi/cc
I-135	8.34E-11 uCi/cc
TOTAL CHARCOAL SAMPLE	3.67E-10 uCi/cc
Rb-88	7.34E-09 uCi/cc
TOTAL FILTER SAMPLE	7.42E-09 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.9%

TABLE P6. e

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.85E-07 uCi/cc
Kr-87	1.33E-06 uCi/cc
Kr-88	2.36E-06 uCi/cc
Xe-133	7.02E-06 uCi/cc
Xe-133m	2.44E-07 uCi/cc
Xe-135	1.82E-06 uCi/cc
Xe-138	9.49E-07 uCi/cc
TOTAL GAS SAMPLE	1.47E-05 uCi/cc
I-131	5.11E-11 uCi/cc
I-132	5.82E-11 uCi/cc
I-133	1.00E-10 uCi/cc
I-134	6.67E-11 uCi/cc
I-135	8.41E-11 uCi/cc
TOTAL CHARCOAL SAMPLE	3.60E-10 uCi/cc
Rb-88	8.80E-09 uCi/cc
TOTAL FILTER SAMPLE	8.89E-09 uCi/cc

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.2E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.8%

TABLE P6. f

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:15) (07:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	6.59E-03 uCi/cc
Kr-87	1.03E-02 uCi/cc
Kr-88	1.78E-02 uCi/cc
Xe-133	5.21E-02 uCi/cc
Xe-133m	1.80E-03 uCi/cc
Xe-135	1.69E-02 uCi/cc
Xe-138	8.96E-03 uCi/cc
TOTAL GAS SAMPLE	1.15E-01 uCi/cc
Br-83	3.29E-07 uCi/cc
Br-84	2.81E-07 uCi/cc
I-131	3.77E-06 uCi/cc
I-132	4.55E-06 uCi/cc
I-133	7.39E-06 uCi/cc
I-134	5.28E-06 uCi/cc
I-135	6.26E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	2.79E-05 uCi/cc
Rb-88	1.14E-05 uCi/cc
Cs-134	3.93E-06 uCi/cc
Cs-136	1.37E-06 uCi/cc
Cs-137	2.67E-06 uCi/cc
TOTAL FILTER SAMPLE	1.94E-05 uCi/cc

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TABLE P6. f

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:15) (07:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. g

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:30) (07:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.72E-03 uCi/cc
Kr-87	1.46E-02 uCi/cc
Kr-88	2.60E-02 uCi/cc
Xe-133	7.79E-02 uCi/cc
Xe-133m	2.69E-03 uCi/cc
Xe-135	2.52E-02 uCi/cc
Xe-138	1.02E-02 uCi/cc
TOTAL GAS SAMPLE	1.67E-01 uCi/cc
Br-83	3.63E-07 uCi/cc
I-131	4.26E-06 uCi/cc
I-132	5.00E-06 uCi/cc
I-133	8.33E-06 uCi/cc
I-134	5.54E-06 uCi/cc
I-135	7.01E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	3.08E-05 uCi/cc
Rb-88	8.58E-06 uCi/cc
Cs-134	4.96E-06 uCi/cc
Cs-136	1.73E-06 uCi/cc
Cs-137	3.37E-06 uCi/cc
TOTAL FILTER SAMPLE	1.87E-05 uCi/cc

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TABLE P6. g

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:30) (07:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. h

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:45) (07:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.49E-03 uCi/cc
Kr-87	1.38E-02 uCi/cc
Kr-88	2.52E-02 uCi/cc
Xe-133	7.69E-02 uCi/cc
Xe-133m	2.65E-03 uCi/cc
Xe-135	2.48E-02 uCi/cc
Xe-138	8.11E-03 uCi/cc
TOTAL GAS SAMPLE	1.62E-01 uCi/cc
Br-83	2.66E-07 uCi/cc
I-131	3.20E-06 uCi/cc
I-132	3.67E-06 uCi/cc
I-133	6.24E-06 uCi/cc
I-134	3.93E-06 uCi/cc
I-135	5.22E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	2.27E-05 uCi/cc
Rb-88	1.12E-05 uCi/cc
Cs-134	4.27E-06 uCi/cc
Cs-136	1.49E-06 uCi/cc
Cs-137	2.90E-06 uCi/cc
TOTAL FILTER SAMPLE	1.99E-05 uCi/cc

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TABLE P6. h

RX BLDG ELEVATED RELEASE POINT CONC. (T = 04:45) (07:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. i

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:00) (08:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	9.22E-03 uCi/cc
Kr-87	1.31E-02 uCi/cc
Kr-88	2.43E-02 uCi/cc
Xe-133	7.55E-02 uCi/cc
Xe-133m	2.60E-03 uCi/cc
Xe-135	2.43E-02 uCi/cc
Xe-138	6.39E-03 uCi/cc
TOTAL GAS SAMPLE	1.56E-01 uCi/cc
Br-83	1.93E-07 uCi/cc
I-131	2.37E-06 uCi/cc
I-132	2.66E-06 uCi/cc
I-133	4.62E-06 uCi/cc
I-134	2.75E-06 uCi/cc
I-135	3.84E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	1.66E-05 uCi/cc
Rb-88	9.46E-06 uCi/cc
Cs-134	3.65E-06 uCi/cc
Cs-136	1.27E-06 uCi/cc
Cs-137	2.48E-06 uCi/cc
TOTAL FILTER SAMPLE	1.69E-05 uCi/cc

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TABLE P6. i

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:00) (08:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. j

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:15) (08:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.95E-03 uCi/cc
Kr-87	1.23E-02 uCi/cc
Kr-88	2.35E-02 uCi/cc
Xe-133	7.41E-02 uCi/cc
Xe-133m	2.56E-03 uCi/cc
Xe-135	2.38E-02 uCi/cc
Xe-138	5.04E-03 uCi/cc
TOTAL GAS SAMPLE	1.51E-01 uCi/cc
Br-83	1.40E-07 uCi/cc
I-131	1.76E-06 uCi/cc
I-132	1.93E-06 uCi/cc
I-133	3.42E-06 uCi/cc
I-134	1.92E-06 uCi/cc
I-135	2.83E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	1.21E-05 uCi/cc
Rb-88	8.19E-06 uCi/cc
Cs-134	3.13E-06 uCi/cc
Cs-136	1.09E-06 uCi/cc
Cs-137	2.12E-06 uCi/cc
TOTAL FILTER SAMPLE	1.46E-05 uCi/cc

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TABLE P6. j

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:15) (08:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. k

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:30) (08:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.69E-03 uCi/cc
Kr-87	1.16E-02 uCi/cc
Kr-88	2.26E-02 uCi/cc
Xe-133	7.28E-02 uCi/cc
Xe-133m	2.51E-03 uCi/cc
Xe-135	2.33E-02 uCi/cc
Xe-138	3.97E-03 uCi/cc
TOTAL GAS SAMPLE	1.46E-01 uCi/cc
Br-83	1.02E-07 uCi/cc
I-131	1.31E-06 uCi/cc
I-132	1.40E-06 uCi/cc
I-133	2.53E-06 uCi/cc
I-134	1.34E-06 uCi/cc
I-135	2.08E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	8.83E-06 uCi/cc
Rb-88	7.22E-06 uCi/cc
Cs-134	2.68E-06 uCi/cc
Cs-136	9.32E-07 uCi/cc
Cs-137	1.82E-06 uCi/cc
TOTAL FILTER SAMPLE	1.27E-05 uCi/cc

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TABLE P6. k

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:30) (08:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. 1

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:45) (08:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.44E-03 uCi/cc
Kr-87	1.10E-02 uCi/cc
Kr-88	2.18E-02 uCi/cc
Xe-133	7.15E-02 uCi/cc
Xe-133m	2.46E-03 uCi/cc
Xe-135	2.27E-02 uCi/cc
Xe-138	3.13E-03 uCi/cc
TOTAL GAS SAMPLE	1.42E-01 uCi/cc
Br-83	7.43E-08 uCi/cc
I-131	9.71E-07 uCi/cc
I-132	1.02E-06 uCi/cc
I-133	1.88E-06 uCi/cc
I-134	9.42E-07 uCi/cc
I-135	1.54E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	6.46E-06 uCi/cc
Rb-88	6.48E-06 uCi/cc
Cs-134	2.29E-06 uCi/cc
Cs-136	7.98E-07 uCi/cc
Cs-137	1.56E-06 uCi/cc
TOTAL FILTER SAMPLE	1.11E-05 uCi/cc

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TABLE P6. 1

RX BLDG ELEVATED RELEASE POINT CONC. (T = 05:45) (08:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. m

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	8.20E-03 uCi/cc
Kr-87	1.03E-02 uCi/cc
Kr-88	2.11E-02 uCi/cc
Xe-133	7.03E-02 uCi/cc
Xe-133m	2.42E-03 uCi/cc
Xe-135	2.22E-02 uCi/cc
Xe-138	2.47E-03 uCi/cc
TOTAL GAS SAMPLE	1.38E-01 uCi/cc
Br-83	5.41E-08 uCi/cc
I-131	7.23E-07 uCi/cc
I-132	7.42E-07 uCi/cc
I-133	1.39E-06 uCi/cc
I-134	6.61E-07 uCi/cc
I-135	1.14E-06 uCi/cc
TOTAL CHARCOAL SAMPLE	4.74E-06 uCi/cc
Rb-88	5.90E-06 uCi/cc
Cs-134	1.96E-06 uCi/cc
Cs-136	6.84E-07 uCi/cc
Cs-137	1.33E-06 uCi/cc
TOTAL FILTER SAMPLE	9.90E-06 uCi/cc

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TABLE P6. m

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:00) (09:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. n

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:15) (09:15)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.96E-03 uCi/cc
Kr-87	9.75E-03 uCi/cc
Kr-88	2.03E-02 uCi/cc
Xe-133	6.90E-02 uCi/cc
Xe-133m	2.37E-03 uCi/cc
Xe-135	2.17E-02 uCi/cc
Xe-138	1.95E-03 uCi/cc
TOTAL GAS SAMPLE	1.34E-01 uCi/cc
Br-83	3.96E-08 uCi/cc
I-131	5.39E-07 uCi/cc
I-132	5.42E-07 uCi/cc
I-133	1.04E-06 uCi/cc
I-134	4.65E-07 uCi/cc
I-135	8.42E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	3.48E-06 uCi/cc
Rb-88	5.45E-06 uCi/cc
Cs-134	1.68E-06 uCi/cc
Cs-136	5.86E-07 uCi/cc
Cs-137	1.14E-06 uCi/cc
TOTAL FILTER SAMPLE	8.88E-06 uCi/cc

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TABLE P6. n

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:15) (09:15)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. o

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:30) (09:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.73E-03 uCi/cc
Kr-87	9.20E-03 uCi/cc
Kr-88	1.96E-02 uCi/cc
Xe-133	6.78E-02 uCi/cc
Xe-133m	2.33E-03 uCi/cc
Xe-135	2.12E-02 uCi/cc
Xe-138	1.53E-03 uCi/cc
TOTAL GAS SAMPLE	1.30E-01 uCi/cc
Br-83	2.90E-08 uCi/cc
I-131	4.04E-07 uCi/cc
I-132	3.97E-07 uCi/cc
I-133	7.76E-07 uCi/cc
I-134	3.28E-07 uCi/cc
I-135	6.25E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	2.57E-06 uCi/cc
Rb-88	5.07E-06 uCi/cc
Cs-134	1.45E-06 uCi/cc
Cs-136	5.03E-07 uCi/cc
Cs-137	9.82E-07 uCi/cc
TOTAL FILTER SAMPLE	8.02E-06 uCi/cc

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TABLE P6. o

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:30) (09:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. p

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:45) (09:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.51E-03 uCi/cc
Kr-87	8.67E-03 uCi/cc
Kr-88	1.89E-02 uCi/cc
Xe-133	6.66E-02 uCi/cc
Xe-133m	2.29E-03 uCi/cc
Xe-135	2.08E-02 uCi/cc
TOTAL GAS SAMPLE	1.27E-01 uCi/cc
Br-83	2.13E-08 uCi/cc
I-131	3.04E-07 uCi/cc
I-132	2.92E-07 uCi/cc
I-133	5.82E-07 uCi/cc
I-134	2.32E-07 uCi/cc
I-135	4.67E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	1.91E-06 uCi/cc
Rb-88	4.77E-06 uCi/cc
Cs-134	1.24E-06 uCi/cc
Cs-136	4.32E-07 uCi/cc
Cs-137	8.44E-07 uCi/cc
TOTAL FILTER SAMPLE	7.30E-06 uCi/cc

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TABLE P6. p

RX BLDG ELEVATED RELEASE POINT CONC. (T = 06:45) (09:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. q

RX BLDG ELEVATED RELEASE POINT CONC. (T = 07:00) (10:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	7.30E-03 uCi/cc
Kr-87	8.18E-03 uCi/cc
Kr-88	1.83E-02 uCi/cc
Xe-133	6.54E-02 uCi/cc
Xe-133m	2.24E-03 uCi/cc
Xe-135	2.03E-02 uCi/cc
TOTAL GAS SAMPLE	1.23E-01 uCi/cc
Br-83	1.58E-08 uCi/cc
I-131	2.29E-07 uCi/cc
I-132	2.16E-07 uCi/cc
I-133	4.39E-07 uCi/cc
I-134	1.66E-07 uCi/cc
I-135	3.50E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	1.42E-06 uCi/cc
Rb-88	4.51E-06 uCi/cc
Cs-134	1.07E-06 uCi/cc
Cs-136	3.72E-07 uCi/cc
Cs-137	7.26E-07 uCi/cc
TOTAL FILTER SAMPLE	6.68E-06 uCi/cc

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TABLE P6. q

RX BLDG ELEVATED RELEASE POINT CONC. (T = 07:00) (10:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.6E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. r

RX BLDG ELEVATED RELEASE POINT CONC. (T = 07:30) (10:30)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	6.88E-03 uCi/cc
Kr-87	7.28E-03 uCi/cc
Kr-88	1.70E-02 uCi/cc
Xe-133	6.31E-02 uCi/cc
Xe-133m	2.16E-03 uCi/cc
Xe-135	1.94E-02 uCi/cc
TOTAL GAS SAMPLE	1.17E-01 uCi/cc
Br-83	8.84E-09 uCi/cc
I-131	1.34E-07 uCi/cc
I-132	1.21E-07 uCi/cc
I-133	2.56E-07 uCi/cc
I-134	8.60E-08 uCi/cc
I-135	2.02E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	8.10E-07 uCi/cc
Rb-88	4.09E-06 uCi/cc
Cs-134	7.94E-07 uCi/cc
Cs-137	5.39E-07 uCi/cc
TOTAL FILTER SAMPLE	5.70E-06 uCi/cc

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TABLE P6. r

RX BLDG ELEVATED RELEASE POINT CONC. (T = 07:30) (10:30)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. s

RX BLDG ELEVATED RELEASE POINT CONC. (T = 07:45) (10:45)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	6.69E-03 uCi/cc
Kr-87	6.87E-03 uCi/cc
Kr-88	1.64E-02 uCi/cc
Xe-133	6.20E-02 uCi/cc
Xe-133m	2.12E-03 uCi/cc
Xe-135	1.90E-02 uCi/cc
TOTAL GAS SAMPLE	1.14E-01 uCi/cc
Br-83	6.73E-09 uCi/cc
I-131	1.04E-07 uCi/cc
I-132	9.16E-08 uCi/cc
I-133	1.98E-07 uCi/cc
I-134	6.30E-08 uCi/cc
I-135	1.55E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	6.21E-07 uCi/cc
Rb-88	3.91E-06 uCi/cc
Cs-134	6.87E-07 uCi/cc
Cs-137	4.66E-07 uCi/cc
TOTAL FILTER SAMPLE	5.31E-06 uCi/cc

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TABLE P6. s

RX BLDG ELEVATED RELEASE POINT CONC. (T = 07:45) (10:45)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P6. t

RX BLDG ELEVATED RELEASE POINT CONC. (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	6.50E-03 uCi/cc
Kr-87	6.48E-03 uCi/cc
Kr-88	1.58E-02 uCi/cc
Xe-133	6.09E-02 uCi/cc
Xe-133m	2.09E-03 uCi/cc
Xe-135	1.86E-02 uCi/cc
TOTAL GAS SAMPLE	1.11E-01 uCi/cc
Br-83	5.19E-09 uCi/cc
I-131	8.22E-08 uCi/cc
I-132	7.06E-08 uCi/cc
I-133	1.56E-07 uCi/cc
I-134	4.68E-08 uCi/cc
I-135	1.22E-07 uCi/cc
TOTAL CHARCOAL SAMPLE	4.83E-07 uCi/cc
Rb-88	3.75E-06 uCi/cc
Cs-134	5.95E-07 uCi/cc
Cs-137	4.04E-07 uCi/cc
TOTAL FILTER SAMPLE	4.96E-06 uCi/cc

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TABLE P6. t

RX BLDG ELEVATED RELEASE POINT CONC. (T = 08:00) (11:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 20.6%

TABLE P7. a

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 00:00) (03:00)

The Radwaste Building cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	3.77E-16 uCi/cc
Kr-87	6.42E-16 uCi/cc
Kr-88	1.01E-15 uCi/cc
Xe-133	3.28E-15 uCi/cc
Xe-135	3.72E-15 uCi/cc
Xe-138	1.22E-15 uCi/cc
TOTAL GAS SAMPLE	1.04E-14 uCi/cc
I-131	1.09E-16 uCi/cc
I-132	1.46E-16 uCi/cc
I-133	3.64E-16 uCi/cc
I-134	1.59E-16 uCi/cc
I-135	3.99E-16 uCi/cc
TOTAL CHARCOAL SAMPLE	1.18E-15 uCi/cc
Cs-134	1.94E-17 uCi/cc
Cs-136	7.50E-18 uCi/cc
Cs-137	1.39E-17 uCi/cc
Np-239	1.12E-17 uCi/cc
TOTAL FILTER SAMPLE	5.30E-17 uCi/cc

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TABLE P7. a

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 00:00) (03:00)
(continued)

The Radwaste Building cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.8E+1
For 4" lead shield divide dose rate by:5.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: < 0.1 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):5.7E+7 Hours
Stay Time: 2 MPC hr (in mask):2.9E+9 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.9E+9 Hours

TABLE P7. b

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 02:00) (05:00)

The Radwaste Building cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	7.20E-15 uCi/cc
Kr-87	8.07E-15 uCi/cc
Kr-88	1.79E-14 uCi/cc
Xe-133	6.43E-14 uCi/cc
Xe-133m	2.20E-15 uCi/cc
Xe-135	1.69E-14 uCi/cc
Xe-138	1.78E-15 uCi/cc
TOTAL GAS SAMPLE	1.19E-13 uCi/cc
I-131	2.26E-16 uCi/cc
I-132	2.01E-16 uCi/cc
I-133	4.58E-16 uCi/cc
I-134	1.48E-16 uCi/cc
I-135	3.73E-16 uCi/cc
TOTAL CHARCOAL SAMPLE	1.41E-15 uCi/cc
Rb-88	1.19E-15 uCi/cc
Cs-134	1.31E-16 uCi/cc
Cs-137	8.34E-17 uCi/cc
TOTAL FILTER SAMPLE	1.46E-15 uCi/cc

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TABLE P7. b

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 02:00) (05:00)
(continued)

The Radwaste Building cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: < 0.1 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):2.2E+7 Hours
Stay Time: 2 MPC hr (in mask):1.1E+9 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.9E+9 Hours

TABLE P7. c

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 04:00) (07:00)

The Radwaste Building cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	1.38E-13 uCi/cc
Kr-87	1.92E-13 uCi/cc
Kr-88	3.59E-13 uCi/cc
Xe-133	1.15E-12 uCi/cc
Xe-133m	3.97E-14 uCi/cc
Xe-135	2.87E-13 uCi/cc
Xe-138	1.29E-13 uCi/cc
TOTAL GAS SAMPLE	2.30E-12 uCi/cc
I-131	5.23E-15 uCi/cc
I-132	5.85E-15 uCi/cc
I-133	1.02E-14 uCi/cc
I-134	6.54E-15 uCi/cc
I-135	8.55E-15 uCi/cc
TOTAL CHARCOAL SAMPLE	3.64E-14 uCi/cc
Rb-88	1.33E-14 uCi/cc
Cs-134	1.60E-15 uCi/cc
Cs-137	1.01E-15 uCi/cc
TOTAL FILTER SAMPLE	1.66E-14 uCi/cc

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TABLE P7. c

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 04:00) (07:00)
(continued)

The Radwaste Building cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: < 0.1 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0,1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.0E+6 Hours
Stay Time: 2 MPC hr (in mask):5.0E+7 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.0E+9 Hours

TABLE P7. d

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 06:00) (09:00)

The Radwaste Building cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	4.43E-09 uCi/cc
Kr-87	5.59E-09 uCi/cc
Kr-88	1.14E-08 uCi/cc
Xe-133	3.80E-08 uCi/cc
Xe-133m	1.31E-09 uCi/cc
Xe-135	1.20E-08 uCi/cc
Xe-138	1.33E-09 uCi/cc
TOTAL GAS SAMPLE	7.45E-08 uCi/cc
Br-83	7.30E-11 uCi/cc
I-131	9.74E-10 uCi/cc
I-132	1.00E-09 uCi/cc
I-133	1.88E-09 uCi/cc
I-134	8.90E-10 uCi/cc
I-135	1.53E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	6.38E-09 uCi/cc
Rb-88	1.06E-09 uCi/cc
Cs-134	9.88E-10 uCi/cc
Cs-136	3.44E-10 uCi/cc
Cs-137	6.71E-10 uCi/cc
TOTAL FILTER SAMPLE	3.16E-09 uCi/cc

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TABLE P7. d

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 06:00) (09:00)
(continued)

The Radwaste Building cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.6E+1
For 4" lead shield divide dose rate by:4.3E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 2.9 mRem/hr
Net Air Sample Contact Rate: 54. cpm/cf sample

Floor Contamination: 3.0 cpm/100cm2
Wall and Equipment Contamination: 0.3 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):8.3E+0 Hours
Stay Time: 2 MPC hr (in mask):4.1E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.7E+4 Hours

TABLE P7. e

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 08:00) (11:00)

The Radwaste Building cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	1.20E-08 uCi/cc
Kr-87	1.19E-08 uCi/cc
Kr-88	2.91E-08 uCi/cc
Xe-133	1.12E-07 uCi/cc
Xe-133m	3.84E-09 uCi/cc
Xe-135	3.41E-08 uCi/cc
TOTAL GAS SAMPLE	2.05E-07 uCi/cc
Br-83	2.51E-11 uCi/cc
I-131	3.97E-10 uCi/cc
I-132	3.41E-10 uCi/cc
I-133	7.53E-10 uCi/cc
I-134	2.26E-10 uCi/cc
I-135	5.88E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	2.34E-09 uCi/cc
Rb-88	1.80E-09 uCi/cc
Cs-134	1.43E-09 uCi/cc
Cs-136	4.98E-10 uCi/cc
Cs-137	9.72E-10 uCi/cc
TOTAL FILTER SAMPLE	4.83E-09 uCi/cc

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TABLE P7. e

RADWASTE BLDG/RADWASTE BLDG EXHAUST (T = 08:00) (11:00)
(continued)

The Radwaste Building cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 1.2 mRem/hr
Net Air Sample Contact Rate: 41. cpm/cf sample

Floor Contamination: 4.8 cpm/100cm2
Wall and Equipment Contamination: 0.5 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.2E+1 Hours
Stay Time: 2 MPC hr (in mask):5.8E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.3E+4 Hours

TABLE P8. a

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 00:00) (03:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.26E-12 uCi/cc
Kr-87	1.99E-12 uCi/cc
Kr-88	3.11E-12 uCi/cc
Xe-133	9.76E-12 uCi/cc
Xe-133m	2.99E-13 uCi/cc
Xe-135	2.66E-12 uCi/cc
Xe-138	3.20E-12 uCi/cc
TOTAL GAS SAMPLE	2.24E-11 uCi/cc
I-131	8.66E-13 uCi/cc
I-132	1.13E-12 uCi/cc
I-133	1.86E-12 uCi/cc
I-134	1.53E-12 uCi/cc
I-135	1.69E-12 uCi/cc
TOTAL CHARCOAL SAMPLE	7.08E-12 uCi/cc
Cs-134	2.01E-13 uCi/cc
Cs-136	8.01E-14 uCi/cc
Cs-137	1.28E-13 uCi/cc
TOTAL FILTER SAMPLE	4.17E-13 uCi/cc

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TABLE P8. a

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 00:00) (03:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.7E+1
For 4" lead shield divide dose rate by:5.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: < 0.1 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.0E+4 Hours
Stay Time: 2 MPC hr (in mask):5.0E+5 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.0E+7 Hours

TABLE P8. b

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 02:00) (05:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	1.20E-11 uCi/cc
Kr-87	1.48E-11 uCi/cc
Kr-88	2.93E-11 uCi/cc
Xe-133	1.02E-10 uCi/cc
Xe-133m	3.40E-12 uCi/cc
Xe-135	2.35E-11 uCi/cc
Xe-138	6.84E-12 uCi/cc
TOTAL GAS SAMPLE	1.93E-10 uCi/cc
I-131	6.43E-12 uCi/cc
I-132	6.91E-12 uCi/cc
I-133	1.25E-11 uCi/cc
I-134	7.19E-12 uCi/cc
I-135	1.04E-11 uCi/cc
TOTAL CHARCOAL SAMPLE	4.34E-11 uCi/cc
Rb-88	1.92E-12 uCi/cc
Cs-134	2.21E-12 uCi/cc
Cs-136	8.81E-13 uCi/cc
Cs-137	1.39E-12 uCi/cc
TOTAL FILTER SAMPLE	6.40E-12 uCi/cc

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TABLE P8. b

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 02:00) (05:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.7E+1
For 4" lead shield divide dose rate by:4.8E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: 0.3 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.4E+3 Hours
Stay Time: 2 MPC hr (in mask):7.1E+4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.8E+6 Hours

TABLE P8. c

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 04:00) (07:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	2.96E-11 uCi/cc
Kr-87	2.62E-11 uCi/cc
Kr-88	6.70E-11 uCi/cc
Xe-133	2.97E-10 uCi/cc
Xe-133m	9.80E-12 uCi/cc
Xe-135	7.27E-11 uCi/cc
TOTAL GAS SAMPLE	5.10E-10 uCi/cc
I-131	8.71E-12 uCi/cc
I-132	8.07E-12 uCi/cc
I-133	1.67E-11 uCi/cc
I-134	7.07E-12 uCi/cc
I-135	1.33E-11 uCi/cc
TOTAL CHARCOAL SAMPLE	5.39E-11 uCi/cc
Rb-88	4.66E-12 uCi/cc
Cs-134	4.25E-12 uCi/cc
Cs-136	1.69E-12 uCi/cc
Cs-137	2.67E-12 uCi/cc
TOTAL FILTER SAMPLE	1.33E-11 uCi/cc

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TABLE P8. c

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 04:00) (07:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.6E+1
For 4" lead shield divide dose rate by:4.5E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: 0.4 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.0E+3 Hours
Stay Time: 2 MPC hr (in mask):5.1E+4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.0E+6 Hours

TABLE P8. d

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 06:00) (09:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	2.28E-10 uCi/cc
Kr-87	2.66E-10 uCi/cc
Kr-88	5.70E-10 uCi/cc
Xe-133	2.04E-09 uCi/cc
Xe-133m	6.96E-11 uCi/cc
Xe-135	6.29E-10 uCi/cc
Xe-138	5.69E-11 uCi/cc
TOTAL GAS SAMPLE	3.89E-09 uCi/cc
I-131	3.09E-11 uCi/cc
I-132	2.95E-11 uCi/cc
I-133	5.93E-11 uCi/cc
I-134	2.45E-11 uCi/cc
I-135	4.75E-11 uCi/cc
TOTAL CHARCOAL SAMPLE	1.94E-10 uCi/cc
Rb-88	3.57E-11 uCi/cc
Cs-134	3.13E-11 uCi/cc
Cs-136	1.12E-11 uCi/cc
Cs-137	2.10E-11 uCi/cc
TOTAL FILTER SAMPLE	1.02E-10 uCi/cc

CONTINUED ON NEXT PAGE

TABLE P8. d

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 06:00) (09:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.1E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: 1.7 cpm/cf sample

Floor Contamination: 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):2.5E+2 Hours
Stay Time: 2 MPC hr (in mask):1.2E+4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):4.9E+5 Hours

TABLE P8. e

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 08:00) (11:00)

Provide current Chem data 30 minutes after sample request

Nuclide	Concentration
Kr-85m	4.91E-10 uCi/cc
Kr-87	4.70E-10 uCi/cc
Kr-88	1.18E-09 uCi/cc
Xe-133	4.72E-09 uCi/cc
Xe-133m	1.60E-10 uCi/cc
Xe-135	1.43E-09 uCi/cc
TOTAL GAS SAMPLE	8.52E-09 uCi/cc
I-131	1.68E-11 uCi/cc
I-132	1.24E-11 uCi/cc
I-133	3.14E-11 uCi/cc
I-134	7.03E-12 uCi/cc
I-135	2.36E-11 uCi/cc
TOTAL CHARCOAL SAMPLE	9.17E-11 uCi/cc
Rb-88	5.16E-11 uCi/cc
Cs-134	3.01E-11 uCi/cc
Cs-136	1.07E-11 uCi/cc
Cs-137	2.01E-11 uCi/cc
TOTAL FILTER SAMPLE	1.15E-10 uCi/cc

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TABLE P8. e

TURBINE BLDG/TURBINE BLDG EXHAUST (T = 08:00) (11:00)
(continued)

Provide current Chem data 30 minutes after sample request

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: 1.2 cpm/cf sample

Floor Contamination: 0.2 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):3.1E+2 Hours
Stay Time: 2 MPC hr (in mask):1.5E+4 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):6.1E+5 Hours

TABLE P9.

RADIATION MONITORING SYSTEM DATA (T = 00:00) (03:00)

MONITOR KEY - FOR USE WITH TABLES P9.

Monitor	TITLE	Monitor	TITLE
ARM-RIS-01	Fuel Pool Area--RX 606	CMS-RIS-27D	RB Elev Release Pt LOCA
ARM-RIS-02	Fuel Pool Area--RX 606	CMS-RIS-27E	In-CTMT LOCA Monitor
ARM-RIS-03	New Fuel Area-RX 606	CMS-RIS-27F	In-CTMT LOCA Monitor
ARM-RIS-3A	New Fuel Area-RX 606	FD-RIS-1	Sump T-1 Rad Monitor
ARM-RIS-04	CRD Equip Area E-RX 522	FD-RIS-2	Sump T-2 Rad Monitor
ARM-RIS-05	CRD Equip Area W-RX 522	FD-RIS-3	Sump T-3 Rad Monitor
ARM-RIS-06	Equip Access S-RX 572	FDR-RIS-606	Liquid RW Effluent Mon
ARM-RIS-07	Neut Mont Drive-RX 501	MS-RIS-610A	MS Line Rad Monitor
ARM-RIS-08	SGT Filter Area-RX 572	MS-RIS-610B	MS Line Rad Monitor
ARM-RIS-09	A RHR Pump Rm 2-RX 422	MS-RIS-610C	MS Line Rad Monitor
ARM-RIS-10	B RHR Pump Rm 1-RX 422	MS-RIS-610D	MS Line Rad Monitor
ARM-RIS-11	C RHR Pump Rm 4-RX 422	OG-RIS-601A	OG Postreat Rad Monitor
ARM-RIS-12	RCIC Pump Rm 3-RX 422	OG-RIS-601B	OG Postreat Rad Monitor
ARM-RIS-13	HPCS Pump Rm 6-RX 422	OG-RIS-611	Charcoal Bed Rad Monitor
ARM-RIS-14	Turb Front Std-TB 501	OG-RIS-612	OG Pretreat Rad Monitor
ARM-RIS-15	Turb Bldg Entr-TB 441	PSR-RI-507	PASS Encl. Rad Monitor
ARM-RIS-16	Rx Feed Pump 1A-TB 441	PSR-RI-665	Pass Liq Rad Monitor
ARM-RIS-17	Rx Feed Pump 1B-TB 441	PSR-RI-704	Pass Gas Rad Monitor
ARM-RIS-18	Condensate Pump-TB 441	RCC-RIS-607	RB Closed Cooling Water
ARM-RIS-19	Main Control Rm-RW 501	REA-RIS-19	RB Elevated Release Moni
ARM-RIS-20	RW Vlv Rm East-RW 467	REA-RIS-19A	RB Inter Range Rad Monit
ARM-RIS-21	RW Vlv Rm West-RW 467	REA-RIS-609A	RB Exhaust Plenum Mon.
ARM-RIS-22	Sampling Room-RW 487	REA-RIS-609B	RB Exhaust Plenum Mon.
ARM-RIS-23	CRD Pump Rm 10-RX 422	REA-RIS-609C	RB Exhaust Plenum Mon.
ARM-RIS-24	Equip Access West-RX 471	REA-RIS-609D	RB Exhaust Plenum Mon.
ARM-RIS-25	Hot Machine Shop-RW 487	RRA-RIS-1	RB Mobile Air Part Mon.
ARM-RIS-26	Contamatd Tool Rm-RW 467	RRA-RIS-2	RB Mobile Air Part Mon.
ARM-RIS-27	Waste Surge Tank-RW 437	RRA-RIS-3	RB In Plant Air Part Mon
ARM-RIS-28	Tank Corridor N-RW 437	SW-RIS-604	RHR Service Water Loop A
ARM-RIS-29	Tank Corridor S-RW 437	SW-RIS-605	RHR Service Water Loop B
ARM-RIS-30	RW Control Room-RW 467	TEA-RIS-13	Turb Bldg Vent Monitor
ARM-RIS-32	Hi Range Monitor-RX 471	TEA-RIS-13A	TB Exh Extended Range
ARM-RIS-33	Hi Range Monitor-RX 501	TRA-RIS-1	TB In Plant Air Part Mon
ARM-RIS-34	Hi Range Monitor-RX 606	WEA-RIS-14	RW Bldg Vent Monitor
CMS-RIS-12/1A	CTMT Part Rad Monitor	WEA-RIS-14A	RW Bldg Inter Ranger Mon
CMS-RIS-12/1B	CTMT Part Rad Monitor	WOA-RIS-31A	CR Fresh Air Intake Mon
CMS-RIS-12/3A	CTMT Noble Gas Monitor	WOA-RIS-31B	CR Fresh Air Intake Mon
CMS-RIS-12/3B	CTMT Noble Gas Monitor	WOA-RIS-32A	CR Fresh Air Intake Mon
CMS-RIS-27A	CTMT LOCA Rad Monitor	WOA-RIS-32B	CR Fresh Air Intake Mon
CMS-RIS-27B	CTMT LOCA Rad Monitor	WRA-RIS-1	RW In Plant Air Part Mon
CMS-RIS-27C	RB Elev Release Pt LOCA	WRA-RIS-2	RW In Plant Air Part Mon

TABLE P9. a

RADIATION MONITORING SYSTEM DATA (T = 00:00) (03:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	250.	mR/hr	CMS-RIS-27D	0.01	R/hr
ARM-RIS-02	5.0	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	180.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	1.1	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	11.	mR/hr	FD-RIS-3	8500.	cpm
ARM-RIS-06	4.0	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	7.6	mR/hr	MS-RIS-610A	1000.	mR/hr
ARM-RIS-08	2.5	mR/hr	MS-RIS-610B	1000.	mR/hr
ARM-RIS-09	49.	mR/hr	MS-RIS-610C	1000.	mR/hr
ARM-RIS-10	49.	mR/hr	MS-RIS-610D	1000.	mR/hr
ARM-RIS-11	6.7	mR/hr	OG-RIS-601A	1.5E5	cpm
ARM-RIS-12	7.6	mR/hr	OG-RIS-601B	1.5E5	cpm
ARM-RIS-13	6.4	mR/hr	OG-RIS-611	2.5	mR/hr
ARM-RIS-14	200.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1.0	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	0.01	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	1.0	mR/hr
ARM-RIS-18	5.5	mR/hr	RCC-RIS-607	40.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	100.	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	1.8	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	0.41	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	0.38	mR/hr
ARM-RIS-23	11.	mR/hr	REA-RIS-609C	0.35	mR/hr
ARM-RIS-24	7.9	mR/hr	REA-RIS-609D	0.35	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	2000.	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	660.	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	1900.	cpm
ARM-RIS-28	8.1	mR/hr	SW-RIS-604	4.3	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	5.6	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	0.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	0.1	R/hr	TRA-RIS-1	110.	cpm
ARM-RIS-34	0.1	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	160.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	440.	cpm	WOA-RIS-31A	350.	cpm
CMS-RIS-12/3A	93.	cpm	WOA-RIS-31B	18.	cpm
CMS-RIS-12/3B	150.	cpm	WOA-RIS-32A	75.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	110.	cpm
CMS-RIS-27B	1.3	R/hr	WRA-RIS-1	410.	cpm
CMS-RIS-27C	0.01	R/hr	WRA-RIS-2	300.	cpm

TABLE A.1.a

NEW RADIATION MONITOR SYSTEM ALARMS (T = 00:00) (03:00)

B RHR Pump Rm 1-RX 422	(ARM-RIS-10)	HIGH
Sump T-3 Rad Monitor	(FD-RIS-3)	HIGH
Sump T-3 Rad Monitor	(FD-RIS-3)	HIHI
OG Postreat Rad Monitor	(OG-RIS-601A)	HIGH
OG Postreat Rad Monitor	(OG-RIS-601B)	HIGH

TABLE P9. b

RADIATION MONITORING SYSTEM DATA (T = 03:00) (06:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	250.	mR/hr	CMS-RIS-27D	0.01	R/hr
ARM-RIS-02	5.0	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	180.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	1.1	mR/hr	FD-RIS-2	860.	cpm
ARM-RIS-05	11.	mR/hr	FD-RIS-3	1.1E4	cpm
ARM-RIS-06	4.0	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	7.6	mR/hr	MS-RIS-610A	1000.	mR/hr
ARM-RIS-08	2.5	mR/hr	MS-RIS-610B	1000.	mR/hr
ARM-RIS-09	49.	mR/hr	MS-RIS-610C	1000.	mR/hr
ARM-RIS-10	49.	mR/hr	MS-RIS-610D	1000.	mR/hr
ARM-RIS-11	6.7	mR/hr	OG-RIS-601A	1.7E5	cpm
ARM-RIS-12	7.6	mR/hr	OG-RIS-601B	1.7E5	cpm
ARM-RIS-13	6.4	mR/hr	OG-RIS-611	2.5	mR/hr
ARM-RIS-14	200.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1.0	mR/hr
ARM-RIS-16	6.2	mR/hr	PSR-RI-665	0.01	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	1.0	mR/hr
ARM-RIS-18	5.9	mR/hr	RCC-RIS-607	40.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	110.	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	1.8	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	0.41	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	0.38	mR/hr
ARM-RIS-23	11.	mR/hr	REA-RIS-609C	0.35	mR/hr
ARM-RIS-24	7.9	mR/hr	REA-RIS-609D	0.35	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	2000.	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	680.	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	2000.	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	4.3	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	5.6	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	0.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	0.1	R/hr	TRA-RIS-1	110.	cpm
ARM-RIS-34	0.1	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	160.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	440.	cpm	WOA-RIS-31A	1800.	cpm
CMS-RIS-12/3A	94.	cpm	WOA-RIS-31B	40.	cpm
CMS-RIS-12/3B	150.	cpm	WOA-RIS-32A	310.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	350.	cpm
CMS-RIS-27B	1.3	R/hr	WRA-RIS-1	410.	cpm
CMS-RIS-27C	0.01	R/hr	WRA-RIS-2	300.	cpm

TABLE A.1.b

NEW RADIATION MONITOR SYSTEM ALARMS (T = 03:00) (06:00)

CR Fresh Air Intake Mon (WOA-RIS-31A) HIGH

TABLE P9. c

RADIATION MONITORING SYSTEM DATA (T = 03:30) (06:30)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	250.	mR/hr	CMS-RIS-27D	0.01	R/hr
ARM-RIS-02	5.0	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	180.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	870.	mR/hr	FD-RIS-2	860.	cpm
ARM-RIS-05	11.	mR/hr	FD-RIS-3	1.1E4	cpm
ARM-RIS-06	4.5	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	320.	mR/hr	MS-RIS-610A	5.2	mR/hr
ARM-RIS-08	3.7	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	49.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	49.	mR/hr	MS-RIS-610D	6.2	mR/hr
ARM-RIS-11	6.7	mR/hr	OG-RIS-601A	1.7E5	cpm
ARM-RIS-12	7.6	mR/hr	OG-RIS-601B	1.7E5	cpm
ARM-RIS-13	6.4	mR/hr	OG-RIS-611	2.5	mR/hr
ARM-RIS-14	46.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1.0	mR/hr
ARM-RIS-16	6.2	mR/hr	PSR-RI-665	0.01	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	1.0	mR/hr
ARM-RIS-18	5.9	mR/hr	RCC-RIS-607	40.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	110.	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	1.8	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	0.41	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	0.38	mR/hr
ARM-RIS-23	11.	mR/hr	REA-RIS-609C	0.35	mR/hr
ARM-RIS-24	7.9	mR/hr	REA-RIS-609D	0.35	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	2000.	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	680.	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	2000.	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	4.3	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	5.6	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	0.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	0.1	R/hr	TRA-RIS-1	110.	cpm
ARM-RIS-34	0.1	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	160.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	440.	cpm	WOA-RIS-31A	2000.	cpm
CMS-RIS-12/3A	94.	cpm	WOA-RIS-31B	43.	cpm
CMS-RIS-12/3B	150.	cpm	WOA-RIS-32A	340.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	380.	cpm
CMS-RIS-27B	1.3	R/hr	WRA-RIS-1	410.	cpm
CMS-RIS-27C	0.01	R/hr	WRA-RIS-2	300.	cpm

TABLE P9. d

RADIATION MONITORING SYSTEM DATA (T = 03:40) (06:40)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	250.	mR/hr	CMS-RIS-27D	0.01	R/hr
ARM-RIS-02	5.5	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	180.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	3100.	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	11.	mR/hr	FD-RIS-3	1.0E4	cpm
ARM-RIS-06	310.	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.1	mR/hr
ARM-RIS-08	37.	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	43.	mR/hr	MS-RIS-610C	17.	mR/hr
ARM-RIS-10	44.	mR/hr	MS-RIS-610D	6.0	mR/hr
ARM-RIS-11	6.9	mR/hr	OG-RIS-601A	1.0E5	cpm
ARM-RIS-12	7.8	mR/hr	OG-RIS-601B	1.0E5	cpm
ARM-RIS-13	6.6	mR/hr	OG-RIS-611	2.5	mR/hr
ARM-RIS-14	46.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1.0	mR/hr
ARM-RIS-16	6.1	mR/hr	PSR-RI-665	0.01	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	1.0	mR/hr
ARM-RIS-18	5.8	mR/hr	RCC-RIS-607	40.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	920.	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	1.8	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	0.71	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	0.68	mR/hr
ARM-RIS-23	12.	mR/hr	REA-RIS-609C	0.65	mR/hr
ARM-RIS-24	7.6	mR/hr	REA-RIS-609D	0.65	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	1.4E4	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	2.1E4	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	2.0E4	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	4.2	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	5.7	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	0.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	0.1	R/hr	TRA-RIS-1	110.	cpm
ARM-RIS-34	0.1	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	160.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	440.	cpm	WOA-RIS-31A	1900.	cpm
CMS-RIS-12/3A	94.	cpm	WOA-RIS-31B	41.	cpm
CMS-RIS-12/3B	150.	cpm	WOA-RIS-32A	320.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	360.	cpm
CMS-RIS-27B	1.3	R/hr	WRA-RIS-1	410.	cpm
CMS-RIS-27C	0.01	R/hr	WRA-RIS-2	300.	cpm

TABLE A.1.c

NEW RADIATION MONITOR SYSTEM ALARMS (T = 03:40) (06:40)

Equip Access S-RX 572	(ARM-RIS-06	)	HIGH
SGT Filter Area-RX 572	(ARM-RIS-08	)	HIGH
RB Mobile Air Part Mon.	(RRA-RIS-1	)	HIGH
RB Mobile Air Part Mon.	(RRA-RIS-2	)	HIGH
RB In Plant Air Part Mon	(RRA-RIS-3	)	HIGH

TABLE P9. e

RADIATION MONITORING SYSTEM DATA (T = 03:50) (06:50)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	250.	mR/hr	CMS-RIS-27D	0.01	R/hr
ARM-RIS-02	5.6	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	180.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	3400.	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	11.	mR/hr	FD-RIS-3	9600.	cpm
ARM-RIS-06	350.	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.1	mR/hr
ARM-RIS-08	51.	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	43.	mR/hr	MS-RIS-610C	17.	mR/hr
ARM-RIS-10	44.	mR/hr	MS-RIS-610D	5.8	mR/hr
ARM-RIS-11	6.9	mR/hr	OG-RIS-601A	6.6E4	cpm
ARM-RIS-12	7.9	mR/hr	OG-RIS-601B	6.6E4	cpm
ARM-RIS-13	6.7	mR/hr	OG-RIS-611	2.5	mR/hr
ARM-RIS-14	46.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1.0	mR/hr
ARM-RIS-16	6.1	mR/hr	PSR-RI-665	0.01	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	1.0	mR/hr
ARM-RIS-18	5.7	mR/hr	RCC-RIS-607	40.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	1200.	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	1.8	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	0.75	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	0.73	mR/hr
ARM-RIS-23	12.	mR/hr	REA-RIS-609C	0.69	mR/hr
ARM-RIS-24	7.6	mR/hr	REA-RIS-609D	0.69	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	1.5E4	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	2.4E4	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	3.1E4	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	4.2	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	5.7	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	0.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	0.1	R/hr	TRA-RIS-1	110.	cpm
ARM-RIS-34	0.1	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	160.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	440.	cpm	WOA-RIS-31A	1800.	cpm
CMS-RIS-12/3A	110.	cpm	WOA-RIS-31B	40.	cpm
CMS-RIS-12/3B	160.	cpm	WOA-RIS-32A	300.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	340.	cpm
CMS-RIS-27B	1.3	R/hr	WRA-RIS-1	410.	cpm
CMS-RIS-27C	0.01	R/hr	WRA-RIS-2	300.	cpm

TABLE P9. f

RADIATION MONITORING SYSTEM DATA (T = 04:00) (07:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	250.	mR/hr	CMS-RIS-27D	0.01	R/hr
ARM-RIS-02	5.5	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	180.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	3300.	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	11.	mR/hr	FD-RIS-3	9200.	cpm
ARM-RIS-06	330.	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.0	mR/hr
ARM-RIS-08	58.	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	43.	mR/hr	MS-RIS-610C	17.	mR/hr
ARM-RIS-10	44.	mR/hr	MS-RIS-610D	5.7	mR/hr
ARM-RIS-11	6.9	mR/hr	OG-RIS-601A	4.5E4	cpm
ARM-RIS-12	7.9	mR/hr	OG-RIS-601B	4.5E4	cpm
ARM-RIS-13	6.6	mR/hr	OG-RIS-611	2.5	mR/hr
ARM-RIS-14	46.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1.0	mR/hr
ARM-RIS-16	6.0	mR/hr	PSR-RI-665	0.01	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	1.0	mR/hr
ARM-RIS-18	5.6	mR/hr	RCC-RIS-607	40.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	1200.	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	1.8	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	0.73	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	0.71	mR/hr
ARM-RIS-23	12.	mR/hr	REA-RIS-609C	0.68	mR/hr
ARM-RIS-24	7.6	mR/hr	REA-RIS-609D	0.68	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	1.5E4	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	2.3E4	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	3.8E4	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	4.2	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	5.7	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	0.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	0.1	R/hr	TRA-RIS-1	110.	cpm
ARM-RIS-34	0.1	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	160.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	440.	cpm	WOA-RIS-31A	1700.	cpm
CMS-RIS-12/3A	110.	cpm	WOA-RIS-31B	48.	cpm
CMS-RIS-12/3B	160.	cpm	WOA-RIS-32A	300.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	340.	cpm
CMS-RIS-27B	1.3	R/hr	WRA-RIS-1	410.	cpm
CMS-RIS-27C	0.01	R/hr	WRA-RIS-2	300.	cpm

TABLE P9. g

RADIATION MONITORING SYSTEM DATA (T = 04:10) (07:10)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	1.2E4	mR/hr	CMS-RIS-27D	0.31	R/hr
ARM-RIS-02	OSH	mR/hr	CMS-RIS-27E	1.3	R/hr
ARM-RIS-03	1.2E4	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	1.2E4	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	7700.	mR/hr	FD-RIS-3	8900.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.6	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	5300.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	5900.	mR/hr	MS-RIS-610D	6.7	mR/hr
ARM-RIS-11	4700.	mR/hr	OG-RIS-601A	3.2E4	cpm
ARM-RIS-12	4800.	mR/hr	OG-RIS-601B	3.2E4	cpm
ARM-RIS-13	5300.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	54.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	6500.	mR/hr
ARM-RIS-16	6.0	mR/hr	PSR-RI-665	6.5	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	6500.	mR/hr
ARM-RIS-18	5.5	mR/hr	RCC-RIS-607	1100.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	5.7E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	9.2	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	5200.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	6600.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	230.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	1600.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	7.2	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	4.9	R/hr	TRA-RIS-1	5100.	cpm
ARM-RIS-34	12.	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	1500.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	1800.	cpm	WOA-RIS-31A	1700.	cpm
CMS-RIS-12/3A	7.5E4	cpm	WOA-RIS-31B	160.	cpm
CMS-RIS-12/3B	7.5E4	cpm	WOA-RIS-32A	370.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	440.	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	7500.	cpm
CMS-RIS-27C	0.32	R/hr	WRA-RIS-2	4700.	cpm

TABLE A.1.d

NEW RADIATION MONITOR SYSTEM ALARMS (T = 04:10) (07:10)

Fuel Pool Area--RX 606	(ARM-RIS-01)	HIGH
Fuel Pool Area--RX 606	(ARM-RIS-02)	HIGH
New Fuel Area-RX 606	(ARM-RIS-03)	HIGH
New Fuel Area-RX 606	(ARM-RIS-3A)	HIGH
CRD Equip Area W-RX 522	(ARM-RIS-05)	HIGH
A RHR Pump Rm 2-RX 422	(ARM-RIS-09)	HIGH
B RHR Pump Rm 1-RX 422	(ARM-RIS-10)	HIGH
C RHR Pump Rm 4-RX 422	(ARM-RIS-11)	HIGH
RCIC Pump Rm 3-RX 422	(ARM-RIS-12)	HIGH
HPCS Pump Rm 6-RX 422	(ARM-RIS-13)	HIGH
CRD Pump Rm 10-RX 422	(ARM-RIS-23)	HIGH
Equip Access West-RX 471	(ARM-RIS-24)	HIGH
PASS Encl. Rad Monitor	(PSR-RI-507)	HIGH
PASS Encl. Rad Monitor	(PSR-RI-507)	HIHI
RB Closed Cooling Water	(RCC-RIS-607)	HIHI
RB Elevated Release Moni	(REA-RIS-19)	HIGH
RB Elevated Release Moni	(REA-RIS-19)	HIHI
RB Exhaust Plenum Mon.	(REA-RIS-609A)	HIGH
RB Exhaust Plenum Mon.	(REA-RIS-609A)	HIHI
RB Exhaust Plenum Mon.	(REA-RIS-609B)	HIGH
RB Exhaust Plenum Mon.	(REA-RIS-609B)	HIHI
RB Exhaust Plenum Mon.	(REA-RIS-609C)	HIGH
RB Exhaust Plenum Mon.	(REA-RIS-609C)	HIHI
RB Exhaust Plenum Mon.	(REA-RIS-609D)	HIGH
RB Exhaust Plenum Mon.	(REA-RIS-609D)	HIHI
RHR Service Water Loop A	(SW-RIS-604)	HIGH
RHR Service Water Loop B	(SW-RIS-605)	HIGH
CR Fresh Air Intake Mon	(WOA-RIS-32B)	HIGH

TABLE P9. h

RADIATION MONITORING SYSTEM DATA (T = 04:20) (07:20)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	1.5E4	mR/hr	CMS-RIS-27D	0.52	R/hr
ARM-RIS-02	OSH	mR/hr	CMS-RIS-27E	1.3	R/hr
ARM-RIS-03	1.5E4	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	1.5E4	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	9600.	mR/hr	FD-RIS-3	8800.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.8	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	6600.	mR/hr	MS-RIS-610C	19.	mR/hr
ARM-RIS-10	7300.	mR/hr	MS-RIS-610D	7.0	mR/hr
ARM-RIS-11	5800.	mR/hr	OG-RIS-601A	2.8E4	cpm
ARM-RIS-12	6100.	mR/hr	OG-RIS-601B	2.8E4	cpm
ARM-RIS-13	6600.	mR/hr	OG-RIS-611	2.8	mR/hr
ARM-RIS-14	56.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	8200.	mR/hr
ARM-RIS-16	6.0	mR/hr	PSR-RI-665	8.2	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	8200.	mR/hr
ARM-RIS-18	5.5	mR/hr	RCC-RIS-607	1300.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	9.9E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	15.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	6400.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	8200.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.3	mR/hr	SW-RIS-604	290.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	2000.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	9.0	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	6.1	R/hr	TRA-RIS-1	6500.	cpm
ARM-RIS-34	15.	R/hr	WEA-RIS-14	45.	cpm
CMS-RIS-12/1A	1300.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	1600.	cpm	WOA-RIS-31A	1600.	cpm
CMS-RIS-12/3A	7.2E4	cpm	WOA-RIS-31B	180.	cpm
CMS-RIS-12/3B	7.2E4	cpm	WOA-RIS-32A	380.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	470.	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	9400.	cpm
CMS-RIS-27C	0.53	R/hr	WRA-RIS-2	5900.	cpm

TABLE P9. i

RADIATION MONITORING SYSTEM DATA (T = 04:30) (07:30)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	1.6E4	mR/hr	CMS-RIS-27D	0.63	R/hr
ARM-RIS-02	OSH	mR/hr	CMS-RIS-27E	1.3	R/hr
ARM-RIS-03	1.5E4	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	1.6E4	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	9000.	mR/hr	FD-RIS-3	8600.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.9	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	14.	mR/hr
ARM-RIS-09	6800.	mR/hr	MS-RIS-610C	19.	mR/hr
ARM-RIS-10	7600.	mR/hr	MS-RIS-610D	7.5	mR/hr
ARM-RIS-11	6100.	mR/hr	OG-RIS-601A	2.3E4	cpm
ARM-RIS-12	6300.	mR/hr	OG-RIS-601B	2.3E4	cpm
ARM-RIS-13	6900.	mR/hr	OG-RIS-611	2.6	mR/hr
ARM-RIS-14	57.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	8500.	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	8.5	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	8500.	mR/hr
ARM-RIS-18	5.5	mR/hr	RCC-RIS-607	1400.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	18.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.5	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	6700.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	8500.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.4	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	300.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	1800.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	9.4	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	6.3	R/hr	TRA-RIS-1	2.5E4	cpm
ARM-RIS-34	15.	R/hr	WEA-RIS-14	46.	cpm
CMS-RIS-12/1A	1100.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	1400.	cpm	WOA-RIS-31A	8.1E4	cpm
CMS-RIS-12/3A	6.9E4	cpm	WOA-RIS-31B	1.0E5	cpm
CMS-RIS-12/3B	6.9E4	cpm	WOA-RIS-32A	8.6E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	9.6E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	2.3E4	cpm
CMS-RIS-27C	0.64	R/hr	WRA-RIS-2	2.0E4	cpm

TABLE A.1.e

NEW RADIATION MONITOR SYSTEM ALARMS (T = 04:30) (07:30)

TB	In Plant Air Part Mon	(TRA-RIS-1)	HIGH
CR	Fresh Air Intake Mon	(WOA-RIS-31A)	HIHI
CR	Fresh Air Intake Mon	(WOA-RIS-31B)	HIGH
CR	Fresh Air Intake Mon	(WOA-RIS-31B)	HIHI
CR	Fresh Air Intake Mon	(WOA-RIS-32A)	HIGH
CR	Fresh Air Intake Mon	(WOA-RIS-32A)	HIHI
CR	Fresh Air Intake Mon	(WOA-RIS-32B)	HIHI
RW	In Plant Air Part Mon	(WRA-RIS-1)	HIGH
RW	In Plant Air Part Mon	(WRA-RIS-2)	HIGH

TABLE P9. j

RADIATION MONITORING SYSTEM DATA (T = 04:40) (07:40)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	1.3E4	mR/hr	CMS-RIS-27D	0.61	R/hr
ARM-RIS-02	OSH	mR/hr	CMS-RIS-27E	1.3	R/hr
ARM-RIS-03	1.3E4	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	1.3E4	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	7700.	mR/hr	FD-RIS-3	8500.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.8	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	14.	mR/hr
ARM-RIS-09	5900.	mR/hr	MS-RIS-610C	19.	mR/hr
ARM-RIS-10	6500.	mR/hr	MS-RIS-610D	7.7	mR/hr
ARM-RIS-11	5200.	mR/hr	OG-RIS-601A	2.0E4	cpm
ARM-RIS-12	5400.	mR/hr	OG-RIS-601B	2.0E4	cpm
ARM-RIS-13	5900.	mR/hr	OG-RIS-611	2.8	mR/hr
ARM-RIS-14	55.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	7300.	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	7.3	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	7300.	mR/hr
ARM-RIS-18	5.5	mR/hr	RCC-RIS-607	1200.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	17.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.5	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	5800.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	7300.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.4	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	260.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	1500.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	8.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	5.4	R/hr	TRA-RIS-1	2.5E4	cpm
ARM-RIS-34	13.	R/hr	WEA-RIS-14	47.	cpm
CMS-RIS-12/1A	1000.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	1300.	cpm	WOA-RIS-31A	8.1E4	cpm
CMS-RIS-12/3A	6.7E4	cpm	WOA-RIS-31B	1.0E5	cpm
CMS-RIS-12/3B	6.7E4	cpm	WOA-RIS-32A	8.6E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	9.6E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	2.2E4	cpm
CMS-RIS-27C	0.61	R/hr	WRA-RIS-2	2.0E4	cpm

TABLE P9. k

RADIATION MONITORING SYSTEM DATA (T = 04:50) (07:50)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	1.2E4	mR/hr	CMS-RIS-27D	0.58	R/hr
ARM-RIS-02	OSH	mR/hr	CMS-RIS-27E	1.3	R/hr
ARM-RIS-03	1.2E4	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	1.2E4	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	6700.	mR/hr	FD-RIS-3	8400.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.7	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	5100.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	5700.	mR/hr	MS-RIS-610D	6.7	mR/hr
ARM-RIS-11	4500.	mR/hr	OG-RIS-601A	1.7E4	cpm
ARM-RIS-12	4700.	mR/hr	OG-RIS-601B	1.7E4	cpm
ARM-RIS-13	5100.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	54.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	6300.	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	6.3	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	6300.	mR/hr
ARM-RIS-18	5.4	mR/hr	RCC-RIS-607	1100.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	17.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.0	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	5000.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	6400.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.0	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	230.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	1300.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	7.0	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	4.7	R/hr	TRA-RIS-1	5900.	cpm
ARM-RIS-34	11.	R/hr	WEA-RIS-14	47.	cpm
CMS-RIS-12/1A	890.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	1200.	cpm	WOA-RIS-31A	1500.	cpm
CMS-RIS-12/3A	6.4E4	cpm	WOA-RIS-31B	180.	cpm
CMS-RIS-12/3B	6.4E4	cpm	WOA-RIS-32A	370.	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	460.	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	8300.	cpm
CMS-RIS-27C	0.59	R/hr	WRA-RIS-2	5200.	cpm

TABLE P9. 1

RADIATION MONITORING SYSTEM DATA (T = 05:00) (08:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	1.0E4	mR/hr	CMS-RIS-27D	0.56	R/hr
ARM-RIS-02	1.0E4	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	1.0E4	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	1.0E4	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	5800.	mR/hr	FD-RIS-3	8200.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.6	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	4500.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	5000.	mR/hr	MS-RIS-610D	6.9	mR/hr
ARM-RIS-11	4000.	mR/hr	OG-RIS-601A	1.5E4	cpm
ARM-RIS-12	4100.	mR/hr	OG-RIS-601B	1.5E4	cpm
ARM-RIS-13	4500.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	53.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	5500.	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	5.5	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	5500.	mR/hr
ARM-RIS-18	5.4	mR/hr	RCC-RIS-607	930.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	17.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.4	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	4400.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	5600.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.4	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	200.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	1200.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	6.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	4.1	R/hr	TRA-RIS-1	2.2E4	cpm
ARM-RIS-34	10.	R/hr	WEA-RIS-14	48.	cpm
CMS-RIS-12/1A	780.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	1100.	cpm	WOA-RIS-31A	7.2E4	cpm
CMS-RIS-12/3A	6.2E4	cpm	WOA-RIS-31B	9.2E4	cpm
CMS-RIS-12/3B	6.2E4	cpm	WOA-RIS-32A	7.7E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	8.6E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.9E4	cpm
CMS-RIS-27C	0.56	R/hr	WRA-RIS-2	1.7E4	cpm

TABLE A.1.f

NEW RADIATION MONITOR SYSTEM ALARMS (T = 05:00) (08:00)

TB In Plant Air Part Mon	(TRA-RIS-1)	HIGH
CR Fresh Air Intake Mon	(WOA-RIS-31A)	HIHI
CR Fresh Air Intake Mon	(WOA-RIS-31B)	HIGH
CR Fresh Air Intake Mon	(WOA-RIS-31B)	HIHI
CR Fresh Air Intake Mon	(WOA-RIS-32A)	HIGH
CR Fresh Air Intake Mon	(WOA-RIS-32A)	HIHI
CR Fresh Air Intake Mon	(WOA-RIS-32B)	HIHI
RW In Plant Air Part Mon	(WRA-RIS-1)	HIGH
RW In Plant Air Part Mon	(WRA-RIS-2)	HIGH

TABLE P9. m

RADIATION MONITORING SYSTEM DATA (T = 05:15) (08:15)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	8500.	mR/hr	CMS-RIS-27D	0.53	R/hr
ARM-RIS-02	8300.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	8400.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	8600.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	4800.	mR/hr	FD-RIS-3	8100.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.5	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	3700.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	4100.	mR/hr	MS-RIS-610D	6.7	mR/hr
ARM-RIS-11	3300.	mR/hr	OG-RIS-601A	1.2E4	cpm
ARM-RIS-12	3400.	mR/hr	OG-RIS-601B	1.2E4	cpm
ARM-RIS-13	3700.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	52.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	4600.	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	4.6	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	4600.	mR/hr
ARM-RIS-18	5.4	mR/hr	RCC-RIS-607	790.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	16.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.4	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	3600.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	4600.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.3	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	170.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	970.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	5.1	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	3.4	R/hr	TRA-RIS-1	2.0E4	cpm
ARM-RIS-34	8.3	R/hr	WEA-RIS-14	48.	cpm
CMS-RIS-12/1A	650.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	930.	cpm	WOA-RIS-31A	6.8E4	cpm
CMS-RIS-12/3A	5.9E4	cpm	WOA-RIS-31B	8.7E4	cpm
CMS-RIS-12/3B	5.9E4	cpm	WOA-RIS-32A	7.3E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	8.1E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.8E4	cpm
CMS-RIS-27C	0.53	R/hr	WRA-RIS-2	1.6E4	cpm

TABLE P9. n

RADIATION MONITORING SYSTEM DATA (T = 05:30) (08:30)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	7200.	mR/hr	CMS-RIS-27D	0.50	R/hr
ARM-RIS-02	7000.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	7200.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	7300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	4100.	mR/hr	FD-RIS-3	7900.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.4	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	3100.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	3500.	mR/hr	MS-RIS-610D	6.6	mR/hr
ARM-RIS-11	2800.	mR/hr	OG-RIS-601A	9900.	cpm
ARM-RIS-12	2900.	mR/hr	OG-RIS-601B	9800.	cpm
ARM-RIS-13	3100.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	51.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	3900.	mR/hr
ARM-RIS-16	5.9	mR/hr	PSR-RI-665	3.9	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	3900.	mR/hr
ARM-RIS-18	5.4	mR/hr	RCC-RIS-607	680.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	15.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.4	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	3100.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	3900.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.3	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	140.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	820.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	4.3	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	2.9	R/hr	TRA-RIS-1	1.9E4	cpm
ARM-RIS-34	7.1	R/hr	WEA-RIS-14	49.	cpm
CMS-RIS-12/1A	550.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	830.	cpm	WOA-RIS-31A	6.5E4	cpm
CMS-RIS-12/3A	5.6E4	cpm	WOA-RIS-31B	8.3E4	cpm
CMS-RIS-12/3B	5.6E4	cpm	WOA-RIS-32A	6.9E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	7.7E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.7E4	cpm
CMS-RIS-27C	0.51	R/hr	WRA-RIS-2	1.5E4	cpm

TABLE P9. o

RADIATION MONITORING SYSTEM DATA (T = 05:45) (08:45)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	6200.	mR/hr	CMS-RIS-27D	0.48	R/hr
ARM-RIS-02	6000.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	6200.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	6300.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	3500.	mR/hr	FD-RIS-3	7800.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.4	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	2700.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	3000.	mR/hr	MS-RIS-610D	6.4	mR/hr
ARM-RIS-11	2400.	mR/hr	OG-RIS-601A	8000.	cpm
ARM-RIS-12	2500.	mR/hr	OG-RIS-601B	8000.	cpm
ARM-RIS-13	2700.	mR/hr	OG-RIS-611	2.6	mR/hr
ARM-RIS-14	50.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	3300.	mR/hr
ARM-RIS-16	5.8	mR/hr	PSR-RI-665	3.3	R/hr
ARM-RIS-17	21.	mR/hr	PSR-RI-704	3300.	mR/hr
ARM-RIS-18	5.3	mR/hr	RCC-RIS-607	600.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	OSH	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	15.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.4	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	2600.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	3300.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.3	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	120.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	710.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	3.7	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	2.5	R/hr	TRA-RIS-1	1.8E4	cpm
ARM-RIS-34	6.1	R/hr	WEA-RIS-14	50.	cpm
CMS-RIS-12/1A	470.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	750.	cpm	WOA-RIS-31A	6.2E4	cpm
CMS-RIS-12/3A	5.4E4	cpm	WOA-RIS-31B	7.9E4	cpm
CMS-RIS-12/3B	5.4E4	cpm	WOA-RIS-32A	6.6E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	7.3E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.6E4	cpm
CMS-RIS-27C	0.48	R/hr	WRA-RIS-2	1.4E4	cpm

TABLE P9. p.

RADIATION MONITORING SYSTEM DATA (T = 06:00) (09:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	5500.	mR/hr	CMS-RIS-27D	0.46	R/hr
ARM-RIS-02	5300.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	5400.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	5600.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	3100.	mR/hr	FD-RIS-3	7600.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.3	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	13.	mR/hr
ARM-RIS-09	2400.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	2600.	mR/hr	MS-RIS-610D	6.3	mR/hr
ARM-RIS-11	2100.	mR/hr	OG-RIS-601A	6600.	cpm
ARM-RIS-12	2200.	mR/hr	OG-RIS-601B	6600.	cpm
ARM-RIS-13	2400.	mR/hr	OG-RIS-611	2.6	mR/hr
ARM-RIS-14	50.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	2900.	mR/hr
ARM-RIS-16	5.8	mR/hr	PSR-RI-665	2.9	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	2900.	mR/hr
ARM-RIS-18	5.3	mR/hr	RCC-RIS-607	530.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	9.7E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	15.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.4	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	2300.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	2900.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.3	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	110.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	620.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	3.3	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	2.2	R/hr	TRA-RIS-1	1.7E4	cpm
ARM-RIS-34	5.4	R/hr	WEA-RIS-14	50.	cpm
CMS-RIS-12/1A	410.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	690.	cpm	WOA-RIS-31A	5.9E4	cpm
CMS-RIS-12/3A	5.2E4	cpm	WOA-RIS-31B	7.5E4	cpm
CMS-RIS-12/3B	5.2E4	cpm	WOA-RIS-32A	6.3E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	7.0E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.5E4	cpm
CMS-RIS-27C	0.46	R/hr	WRA-RIS-2	1.3E4	cpm

TABLE P9. q

RADIATION MONITORING SYSTEM DATA (T = 06:15) (09:15)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	4900.	mR/hr	CMS-RIS-27D	0.44	R/hr
ARM-RIS-02	4700.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	4900.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	5000.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	2800.	mR/hr	FD-RIS-3	7500.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.3	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	2100.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	2400.	mR/hr	MS-RIS-610D	6.1	mR/hr
ARM-RIS-11	1900.	mR/hr	OG-RIS-601A	5400.	cpm
ARM-RIS-12	1900.	mR/hr	OG-RIS-601B	5400.	cpm
ARM-RIS-13	2100.	mR/hr	OG-RIS-611	2.6	mR/hr
ARM-RIS-14	49.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	2600.	mR/hr
ARM-RIS-16	5.8	mR/hr	PSR-RI-665	2.6	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	2600.	mR/hr
ARM-RIS-18	5.3	mR/hr	RCC-RIS-607	480.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	9.4E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	14.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.2	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	2100.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	2600.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.2	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	96.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	560.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	57.	cpm
ARM-RIS-32	2.9	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	2.0	R/hr	TRA-RIS-1	1.2E4	cpm
ARM-RIS-34	4.8	R/hr	WEA-RIS-14	51.	cpm
CMS-RIS-12/1A	360.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	640.	cpm	WOA-RIS-31A	3.8E4	cpm
CMS-RIS-12/3A	5.0E4	cpm	WOA-RIS-31B	4.8E4	cpm
CMS-RIS-12/3B	5.0E4	cpm	WOA-RIS-32A	4.0E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	4.5E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.1E4	cpm
CMS-RIS-27C	0.44	R/hr	WRA-RIS-2	9500.	cpm

TABLE P9. r

RADIATION MONITORING SYSTEM DATA (T = 06:30) (09:30)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	4500.	mR/hr	CMS-RIS-27D	0.42	R/hr
ARM-RIS-02	4200.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	4400.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	4500.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	2500.	mR/hr	FD-RIS-3	7300.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.2	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	1900.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	2100.	mR/hr	MS-RIS-610D	6.0	mR/hr
ARM-RIS-11	1700.	mR/hr	OG-RIS-601A	4500.	cpm
ARM-RIS-12	1700.	mR/hr	OG-RIS-601B	4400.	cpm
ARM-RIS-13	1900.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	49.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	2400.	mR/hr
ARM-RIS-16	5.8	mR/hr	PSR-RI-665	2.4	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	2400.	mR/hr
ARM-RIS-18	5.2	mR/hr	RCC-RIS-607	440.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	9.1E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	14.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.2	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	1900.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	2400.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.2	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	87.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	500.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	2.7	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	1.8	R/hr	TRA-RIS-1	1.1E4	cpm
ARM-RIS-34	4.3	R/hr	WEA-RIS-14	52.	cpm
CMS-RIS-12/1A	320.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	600.	cpm	WOA-RIS-31A	3.7E4	cpm
CMS-RIS-12/3A	4.8E4	cpm	WOA-RIS-31B	4.6E4	cpm
CMS-RIS-12/3B	4.8E4	cpm	WOA-RIS-32A	3.8E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	4.3E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	1.0E4	cpm
CMS-RIS-27C	0.42	R/hr	WRA-RIS-2	9100.	cpm

TABLE P9. s

RADIATION MONITORING SYSTEM DATA (T = 06:45) (09:45)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	4100.	mR/hr	CMS-RIS-27D	0.40	R/hr
ARM-RIS-02	3900.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	4100.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	4200.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	2300.	mR/hr	FD-RIS-3	7200.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.2	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	1800.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	2000.	mR/hr	MS-RIS-610D	5.9	mR/hr
ARM-RIS-11	1500.	mR/hr	OG-RIS-601A	3700.	cpm
ARM-RIS-12	1600.	mR/hr	OG-RIS-601B	3700.	cpm
ARM-RIS-13	1700.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	49.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	2200.	mR/hr
ARM-RIS-16	5.8	mR/hr	PSR-RI-665	2.2	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	2200.	mR/hr
ARM-RIS-18	5.2	mR/hr	RCC-RIS-607	410.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	8.8E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	13.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.2	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	1700.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	2200.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.2	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	80.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	460.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	2.4	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	1.7	R/hr	TRA-RIS-1	1.1E4	cpm
ARM-RIS-34	4.0	R/hr	WEA-RIS-14	53.	cpm
CMS-RIS-12/1A	290.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	570.	cpm	WOA-RIS-31A	3.5E4	cpm
CMS-RIS-12/3A	4.7E4	cpm	WOA-RIS-31B	4.4E4	cpm
CMS-RIS-12/3B	4.7E4	cpm	WOA-RIS-32A	3.7E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	4.1E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	9900.	cpm
CMS-RIS-27C	0.40	R/hr	WRA-RIS-2	8700.	cpm

TABLE P9. t

RADIATION MONITORING SYSTEM DATA (T = 07:00) (10:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	3800.	mR/hr	CMS-RIS-27D	0.38	R/hr
ARM-RIS-02	3600.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	3800.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	3900.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	2100.	mR/hr	FD-RIS-3	7100.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.1	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	1600.	mR/hr	MS-RIS-610C	18.	mR/hr
ARM-RIS-10	1800.	mR/hr	MS-RIS-610D	5.7	mR/hr
ARM-RIS-11	1400.	mR/hr	OG-RIS-601A	3100.	cpm
ARM-RIS-12	1500.	mR/hr	OG-RIS-601B	3100.	cpm
ARM-RIS-13	1600.	mR/hr	OG-RIS-611	2.7	mR/hr
ARM-RIS-14	49.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	2000.	mR/hr
ARM-RIS-16	5.8	mR/hr	PSR-RI-665	2.0	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	2000.	mR/hr
ARM-RIS-18	5.2	mR/hr	RCC-RIS-607	390.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	8.5E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	13.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.1	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	1600.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	2000.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.1	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	74.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	430.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	2.3	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	1.5	R/hr	TRA-RIS-1	6700.	cpm
ARM-RIS-34	3.7	R/hr	WEA-RIS-14	53.	cpm
CMS-RIS-12/1A	260.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	550.	cpm	WOA-RIS-31A	1.8E4	cpm
CMS-RIS-12/3A	4.6E4	cpm	WOA-RIS-31B	2.1E4	cpm
CMS-RIS-12/3B	4.6E4	cpm	WOA-RIS-32A	1.8E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	2.0E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	6800.	cpm
CMS-RIS-27C	0.39	R/hr	WRA-RIS-2	5500.	cpm

TABLE P9. u

RADIATION MONITORING SYSTEM DATA (T = 07:30) (10:30)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	3400.	mR/hr	CMS-RIS-27D	0.36	R/hr
ARM-RIS-02	3100.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	3300.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	3400.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	1900.	mR/hr	FD-RIS-3	6900.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.1	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	1400.	mR/hr	MS-RIS-610C	17.	mR/hr
ARM-RIS-10	1600.	mR/hr	MS-RIS-610D	5.6	mR/hr
ARM-RIS-11	1200.	mR/hr	OG-RIS-601A	2200.	cpm
ARM-RIS-12	1300.	mR/hr	OG-RIS-601B	2200.	cpm
ARM-RIS-13	1400.	mR/hr	OG-RIS-611	3.0	mR/hr
ARM-RIS-14	48.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1700.	mR/hr
ARM-RIS-16	5.7	mR/hr	PSR-RI-665	1.7	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	1700.	mR/hr
ARM-RIS-18	5.2	mR/hr	RCC-RIS-607	350.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	8.0E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	12.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.1	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	1400.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	1700.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.1	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	65.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	380.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	2.0	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	1.4	R/hr	TRA-RIS-1	6300.	cpm
ARM-RIS-34	3.2	R/hr	WEA-RIS-14	56.	cpm
CMS-RIS-12/1A	230.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	510.	cpm	WOA-RIS-31A	1.6E4	cpm
CMS-RIS-12/3A	4.3E4	cpm	WOA-RIS-31B	2.0E4	cpm
CMS-RIS-12/3B	4.3E4	cpm	WOA-RIS-32A	1.7E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	1.9E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	6400.	cpm
CMS-RIS-27C	0.36	R/hr	WRA-RIS-2	5200.	cpm

TABLE P9. v

RADIATION MONITORING SYSTEM DATA (T = 08:00) (11:00)

NOTE: 'OSH' = Offscale High

ALL MONITOR VALUES ARE 1 MINUTE AVERAGES

Monitor	value	units	Monitor	value	units
ARM-RIS-01	3000.	mR/hr	CMS-RIS-27D	0.33	R/hr
ARM-RIS-02	2800.	mR/hr	CMS-RIS-27E	1.2	R/hr
ARM-RIS-03	3000.	mR/hr	CMS-RIS-27F	10.	R/hr
ARM-RIS-3A	3100.	mR/hr	FD-RIS-1	1300.	cpm
ARM-RIS-04	OSH	mR/hr	FD-RIS-2	850.	cpm
ARM-RIS-05	1700.	mR/hr	FD-RIS-3	6600.	cpm
ARM-RIS-06	OSH	mR/hr	FDR-RIS-606	50.	cps
ARM-RIS-07	OSH	mR/hr	MS-RIS-610A	5.0	mR/hr
ARM-RIS-08	OSH	mR/hr	MS-RIS-610B	12.	mR/hr
ARM-RIS-09	1300.	mR/hr	MS-RIS-610C	17.	mR/hr
ARM-RIS-10	1400.	mR/hr	MS-RIS-610D	5.5	mR/hr
ARM-RIS-11	1100.	mR/hr	OG-RIS-601A	1600.	cpm
ARM-RIS-12	1200.	mR/hr	OG-RIS-601B	1600.	cpm
ARM-RIS-13	1300.	mR/hr	OG-RIS-611	3.0	mR/hr
ARM-RIS-14	48.	mR/hr	OG-RIS-612	140.	mR/hr
ARM-RIS-15	3.0	mR/hr	PSR-RI-507	1600.	mR/hr
ARM-RIS-16	5.7	mR/hr	PSR-RI-665	1.6	R/hr
ARM-RIS-17	20.	mR/hr	PSR-RI-704	1600.	mR/hr
ARM-RIS-18	5.1	mR/hr	RCC-RIS-607	320.	cps
ARM-RIS-19	5.0	mR/hr	REA-RIS-19	7.6E6	cpm
ARM-RIS-20	5.0	mR/hr	REA-RIS-19A	12.	pmu
ARM-RIS-21	7.0	mR/hr	REA-RIS-609A	OSH	mR/hr
ARM-RIS-22	7.1	mR/hr	REA-RIS-609B	OSH	mR/hr
ARM-RIS-23	1200.	mR/hr	REA-RIS-609C	OSH	mR/hr
ARM-RIS-24	1600.	mR/hr	REA-RIS-609D	OSH	mR/hr
ARM-RIS-25	4.1	mR/hr	RRA-RIS-1	OSH	cpm
ARM-RIS-26	3.0	mR/hr	RRA-RIS-2	OSH	cpm
ARM-RIS-27	10.	mR/hr	RRA-RIS-3	OSH	cpm
ARM-RIS-28	8.2	mR/hr	SW-RIS-604	59.	cps
ARM-RIS-29	30.	mR/hr	SW-RIS-605	340.	cps
ARM-RIS-30	3.0	mR/hr	TEA-RIS-13	58.	cpm
ARM-RIS-32	1.8	R/hr	TEA-RIS-13A	2.6	pmu
ARM-RIS-33	1.2	R/hr	TRA-RIS-1	5800.	cpm
ARM-RIS-34	2.9	R/hr	WEA-RIS-14	59.	cpm
CMS-RIS-12/1A	210.	cpm	WEA-RIS-14A	1.4	pmu
CMS-RIS-12/1B	490.	cpm	WOA-RIS-31A	1.5E4	cpm
CMS-RIS-12/3A	4.1E4	cpm	WOA-RIS-31B	1.8E4	cpm
CMS-RIS-12/3B	4.1E4	cpm	WOA-RIS-32A	1.5E4	cpm
CMS-RIS-27A	0.01	R/hr	WOA-RIS-32B	1.7E4	cpm
CMS-RIS-27B	1.4	R/hr	WRA-RIS-1	5900.	cpm
CMS-RIS-27C	0.33	R/hr	WRA-RIS-2	4800.	cpm

WNP-2

Turbine Building

Elevation

441 feet to 453 feet

Survey Location

Radiation Monitor

Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

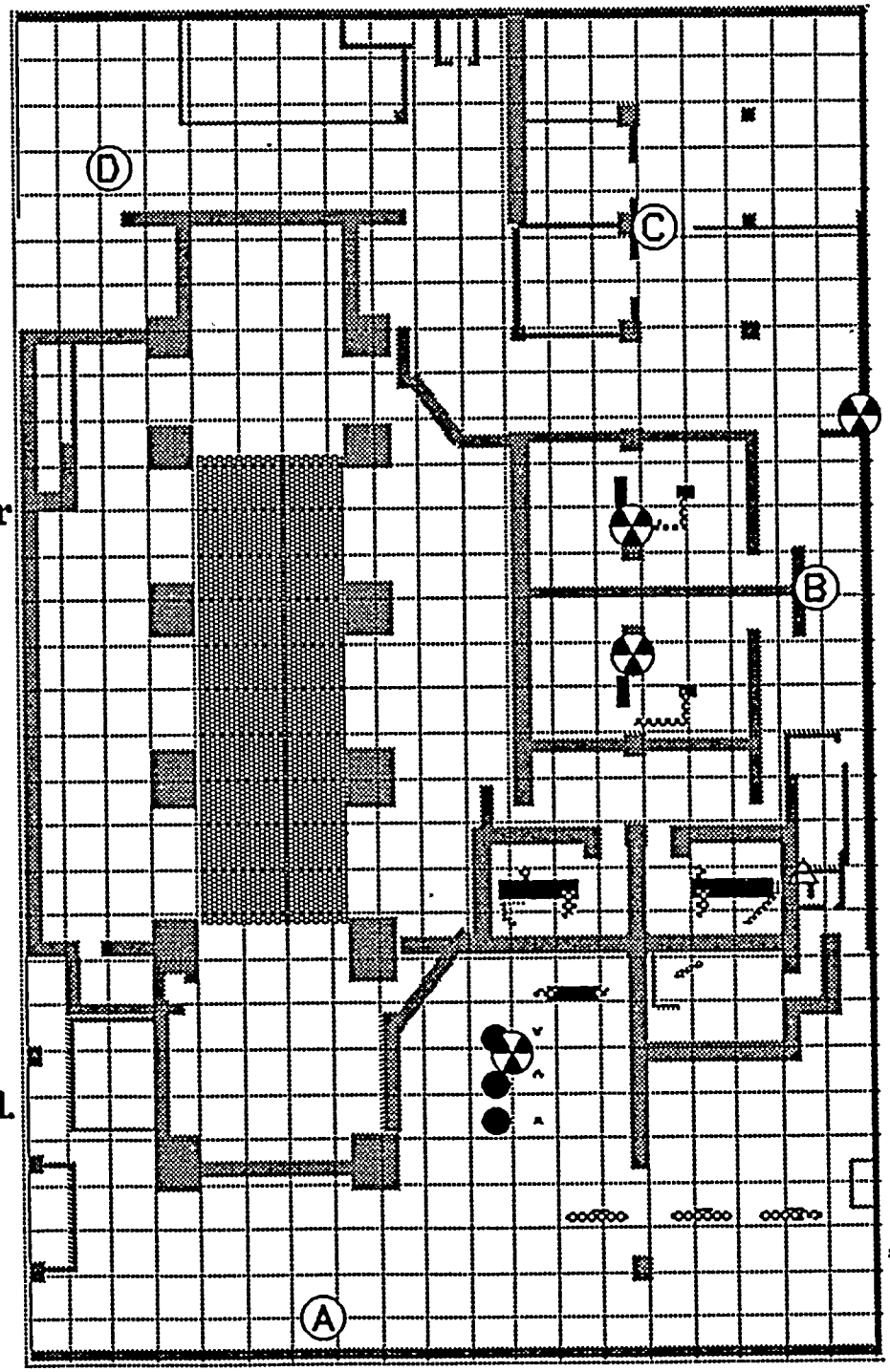
Turb./Gen.

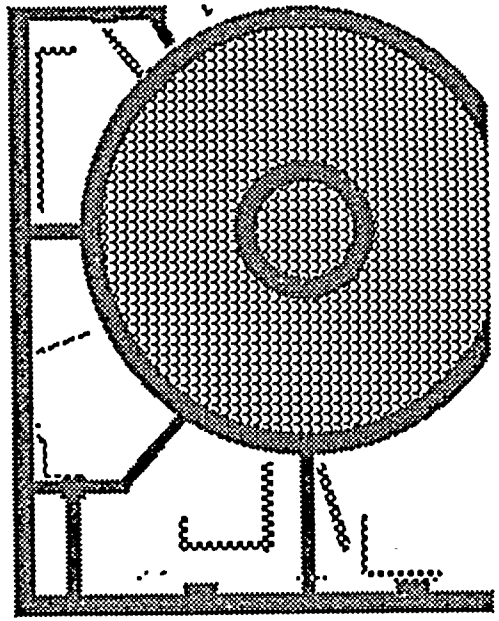
Steam/Cond.

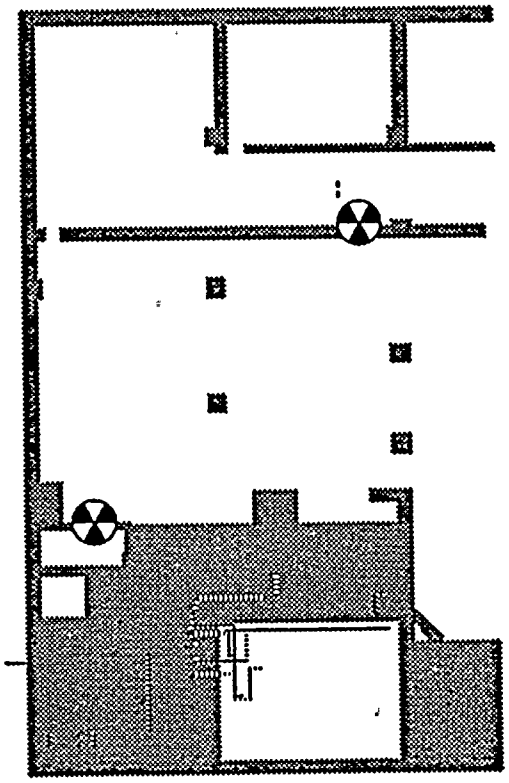
Concrete

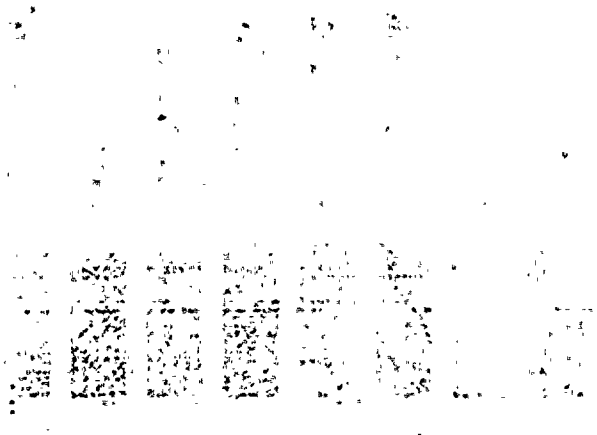
Piping

Vent. Ducts









WNP-2

Turbine Building

Elevation

456 feet to 467 feet

Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

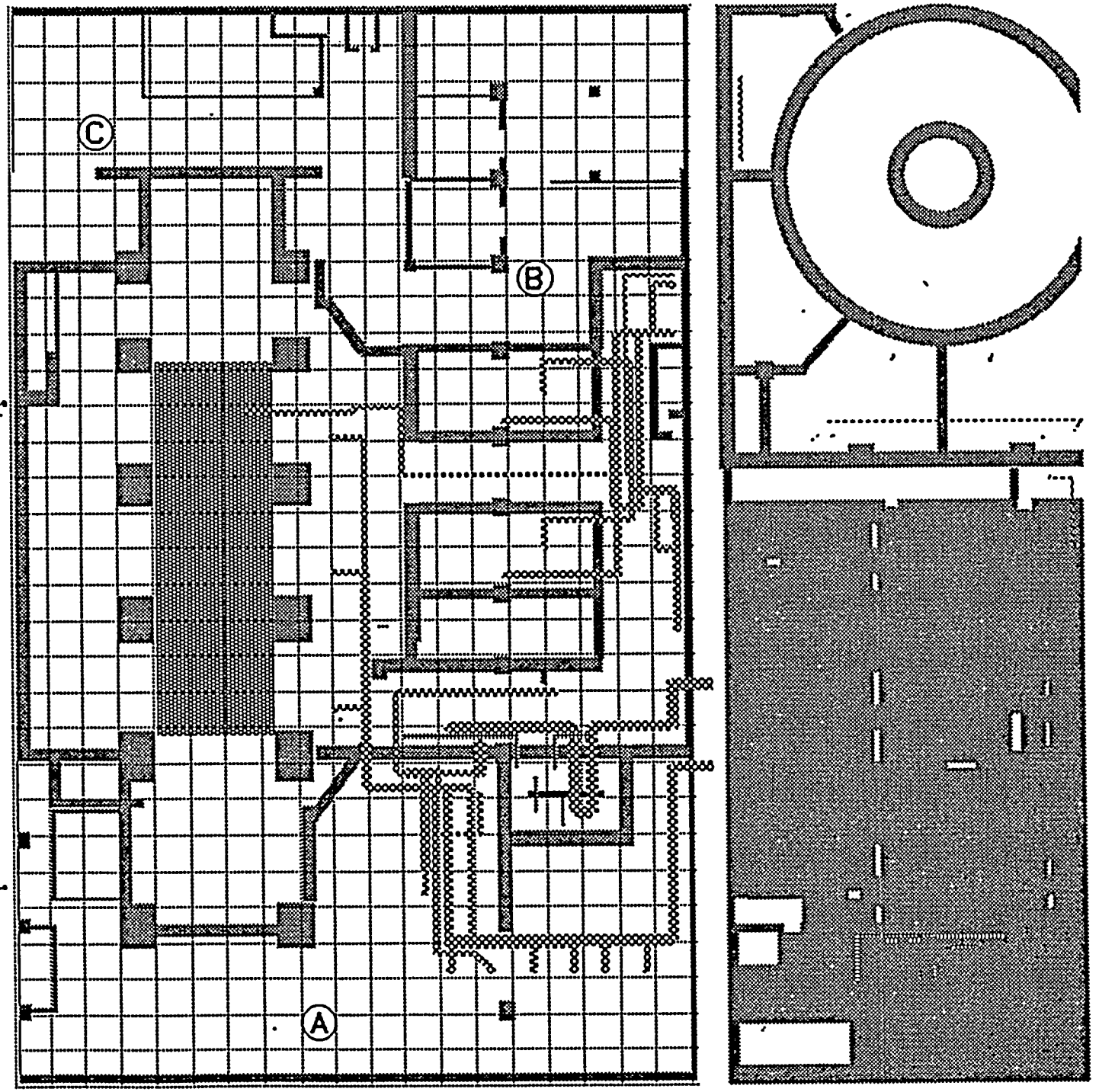
Turb./Gen.

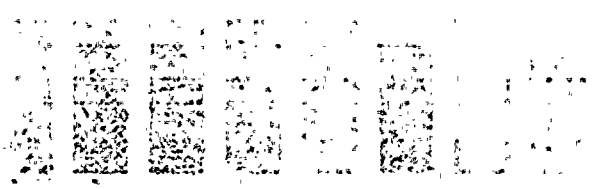
Steam/Cond.

Concrete

Piping

Vent. Ducts





WNP-2

Turbine Building
Elevation
471 feet to 495 feet

Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

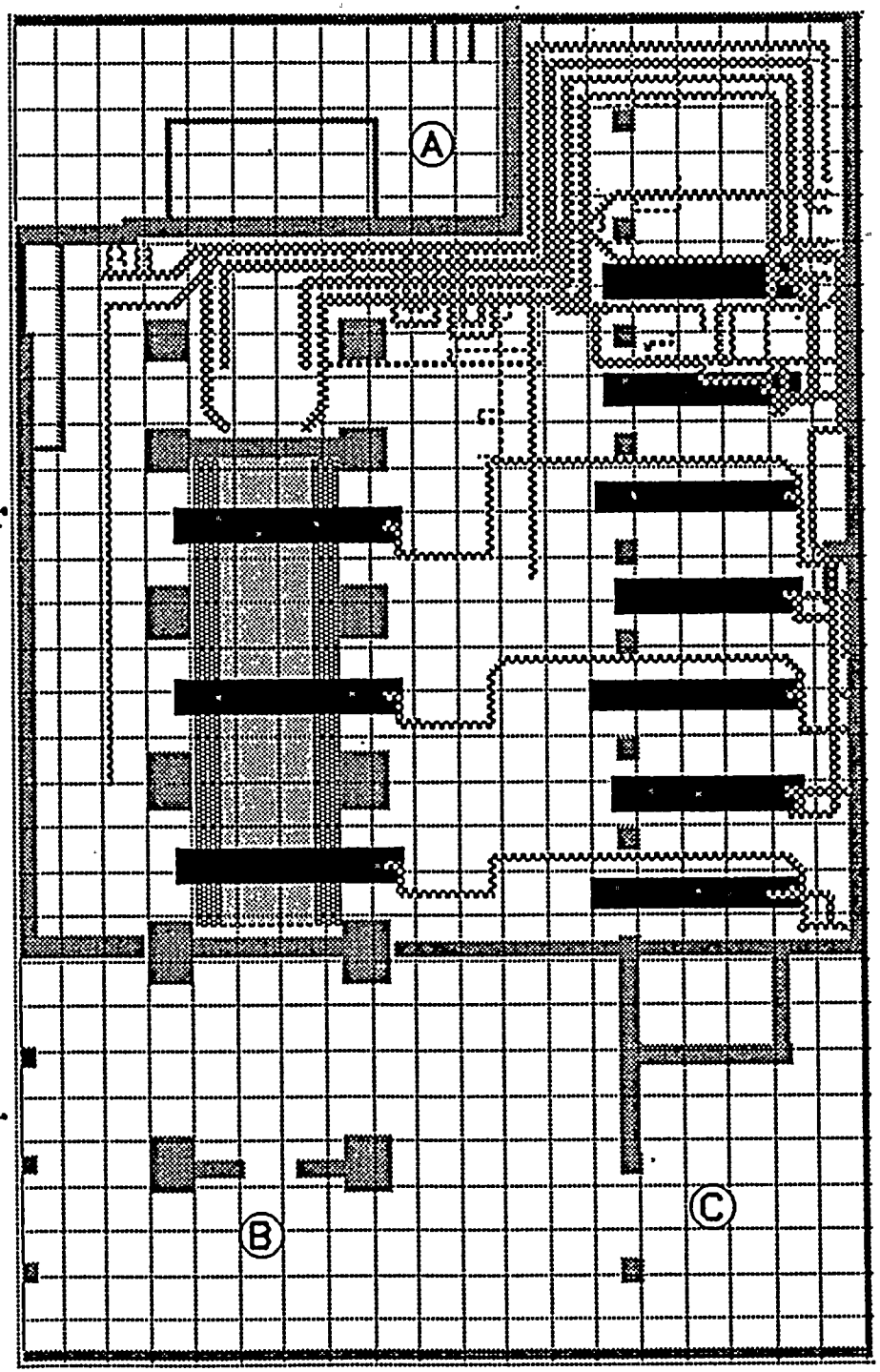
Turb./Gen.

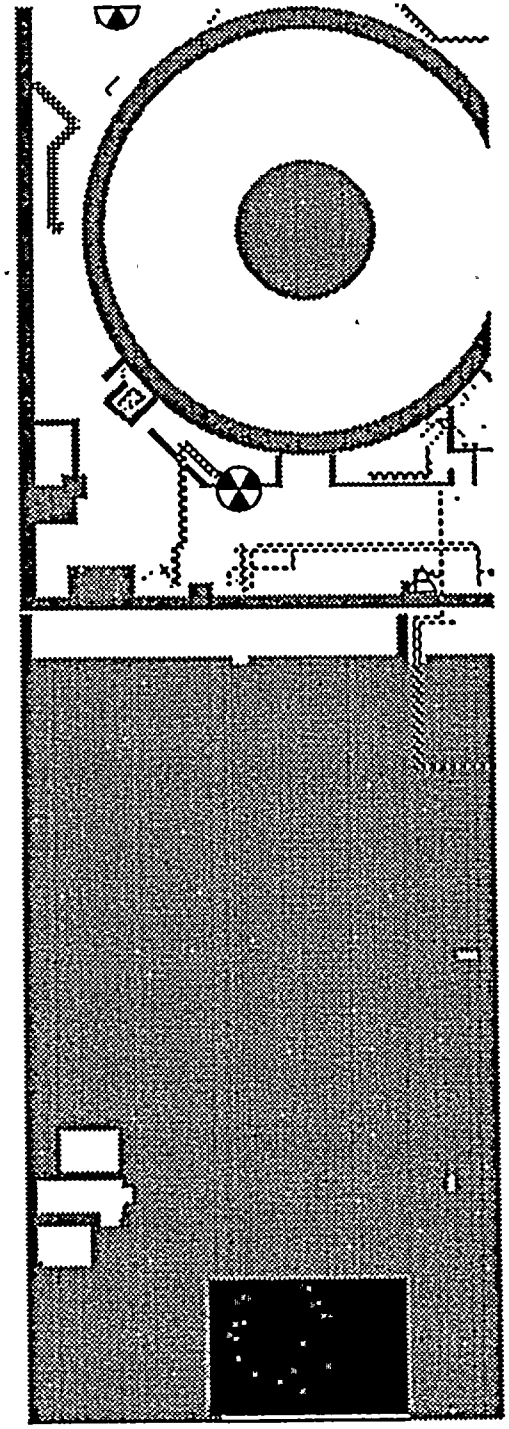
Steam/Cond.

Concrete

Piping

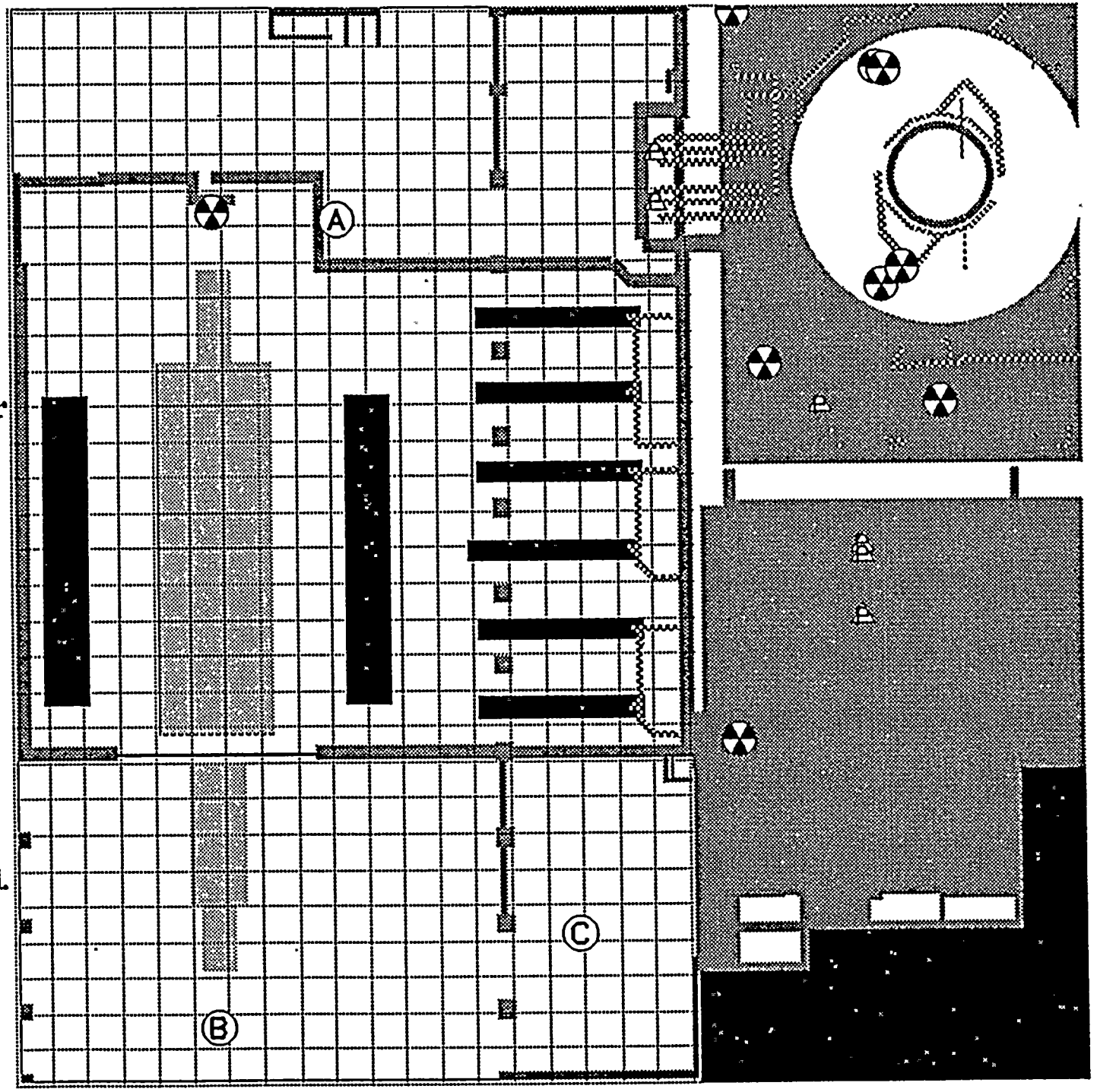
Vent. Ducts





WNP-2

Turbine Building Elevation 501 feet to 530 feet



Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

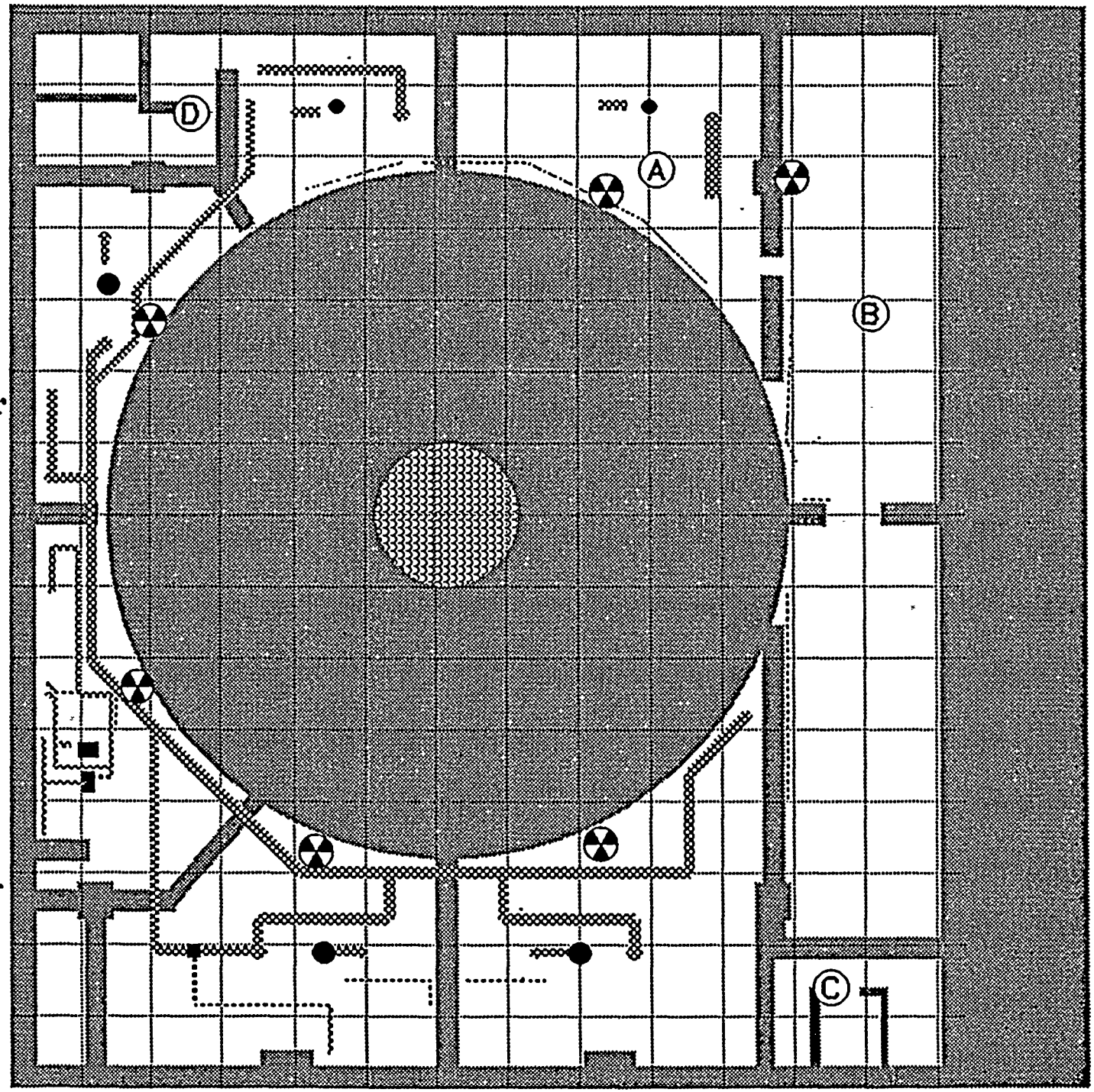
Concrete

Piping

Vent. Ducts

WNP-2

Reactor Building Elevation 422 feet to 436 feet



Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

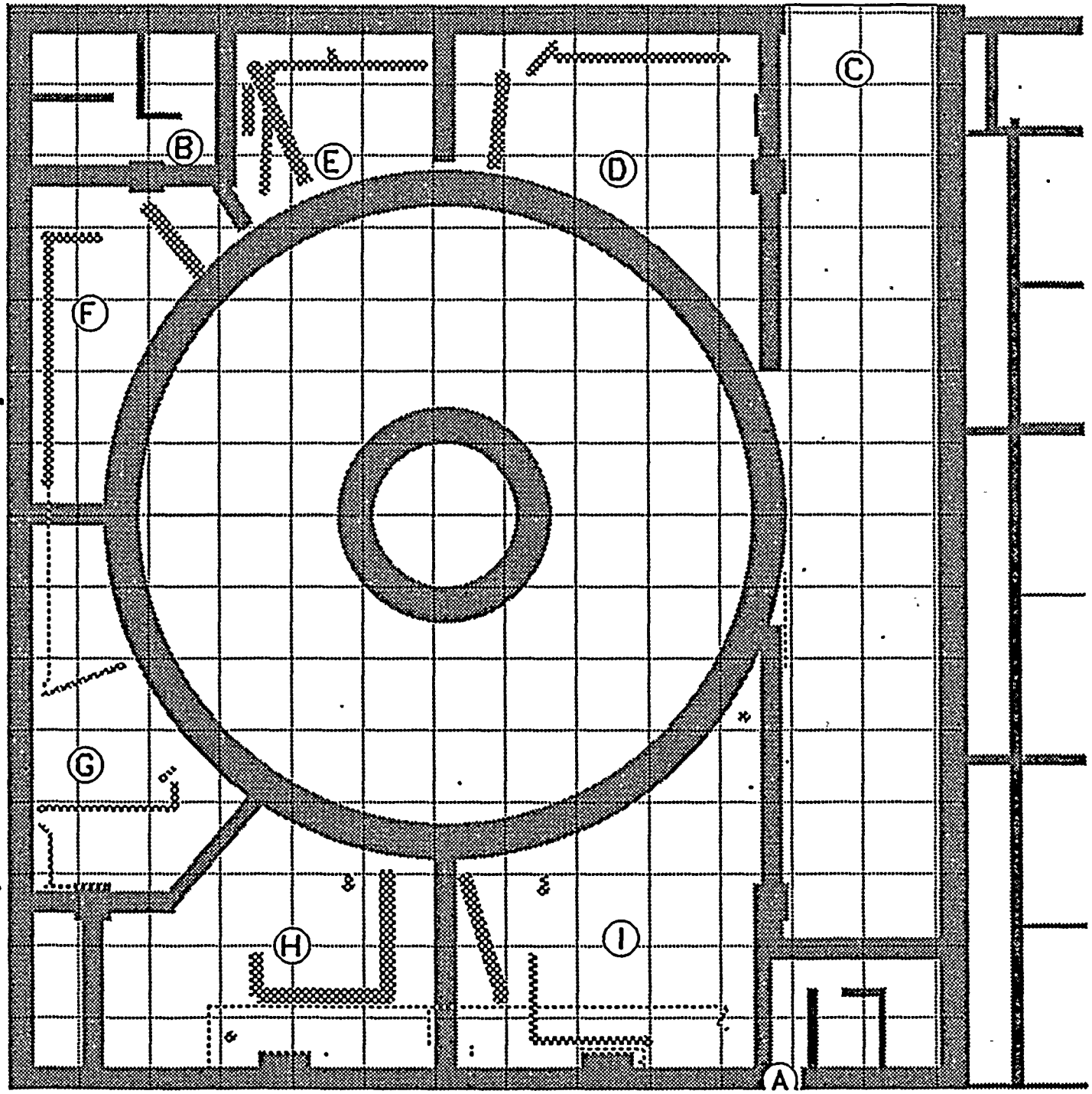
Concrete

Piping

Vent. Ducts

WNP-2

Reactor Building Elevation 441 feet to 468 feet



Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

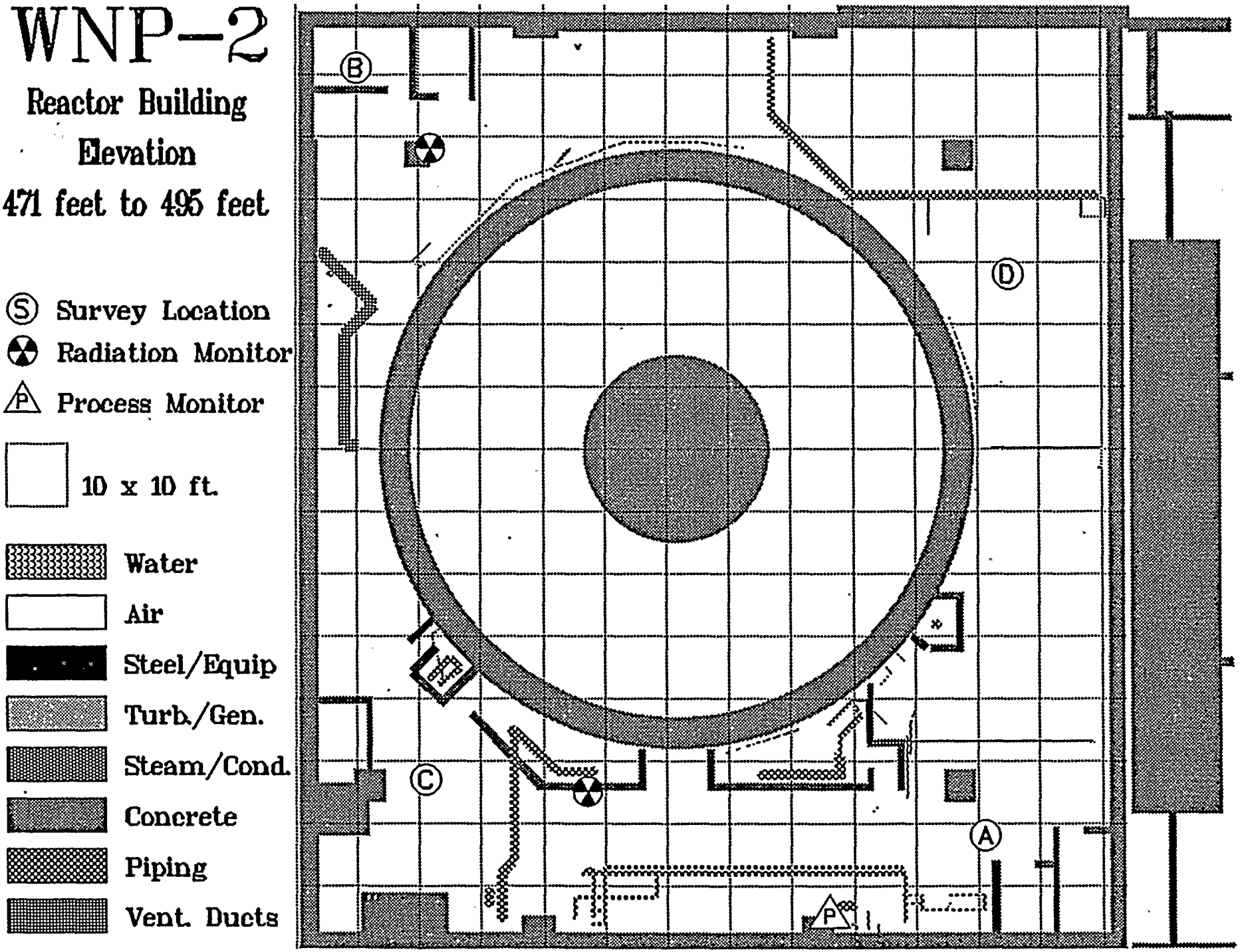
Concrete

Piping

Vent. Ducts

WNP-2

Reactor Building
Elevation
471 feet to 495 feet



WNP-2

Reactor Building Elevation 501 feet to 514 feet

Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

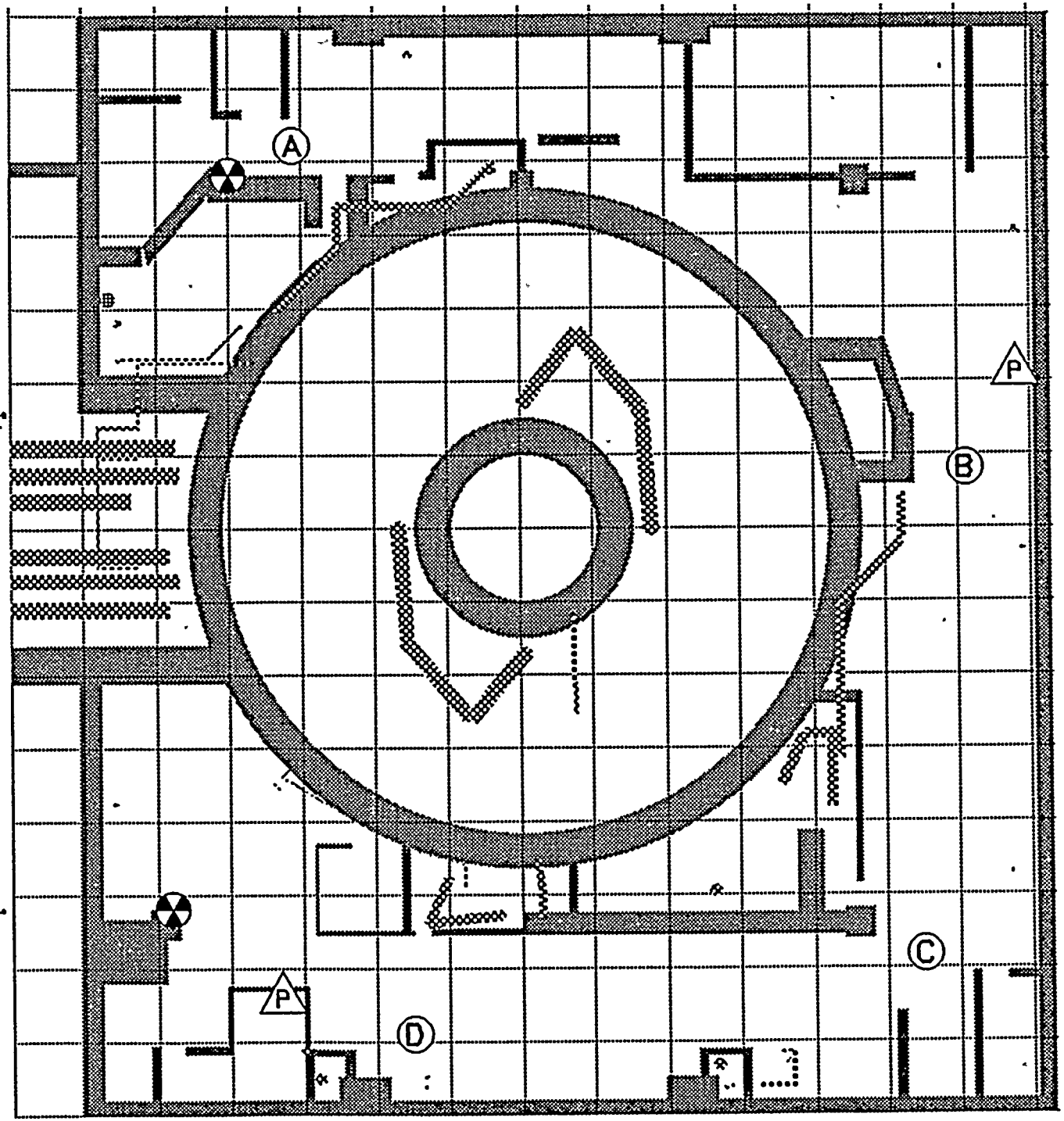
Turb./Gen.

Steam/Cond.

Concrete

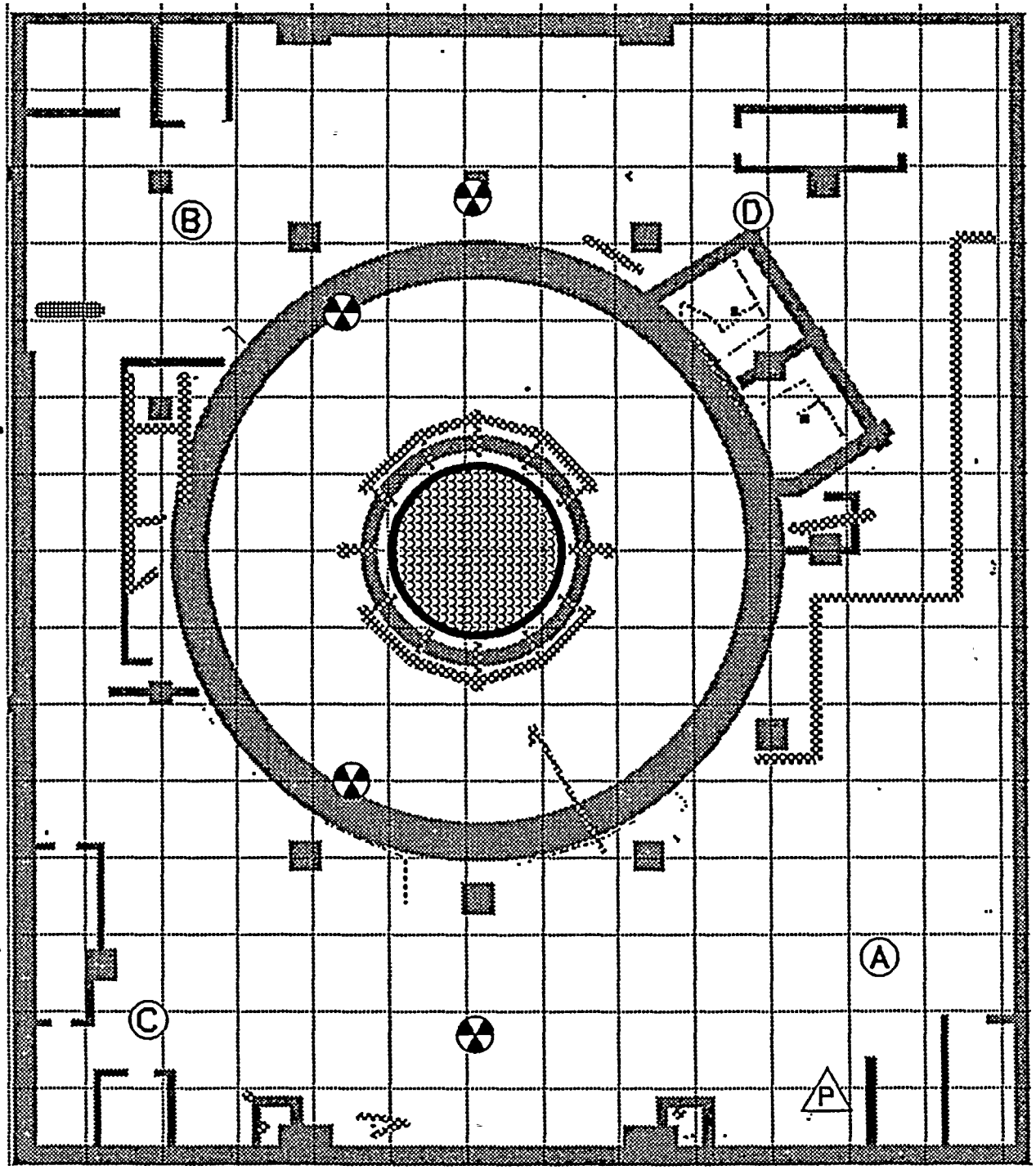
Piping

Vent. Ducts



WNP-2

Reactor Building
Elevation
522 feet to 536 feet



Ⓢ Survey Location

☢ Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

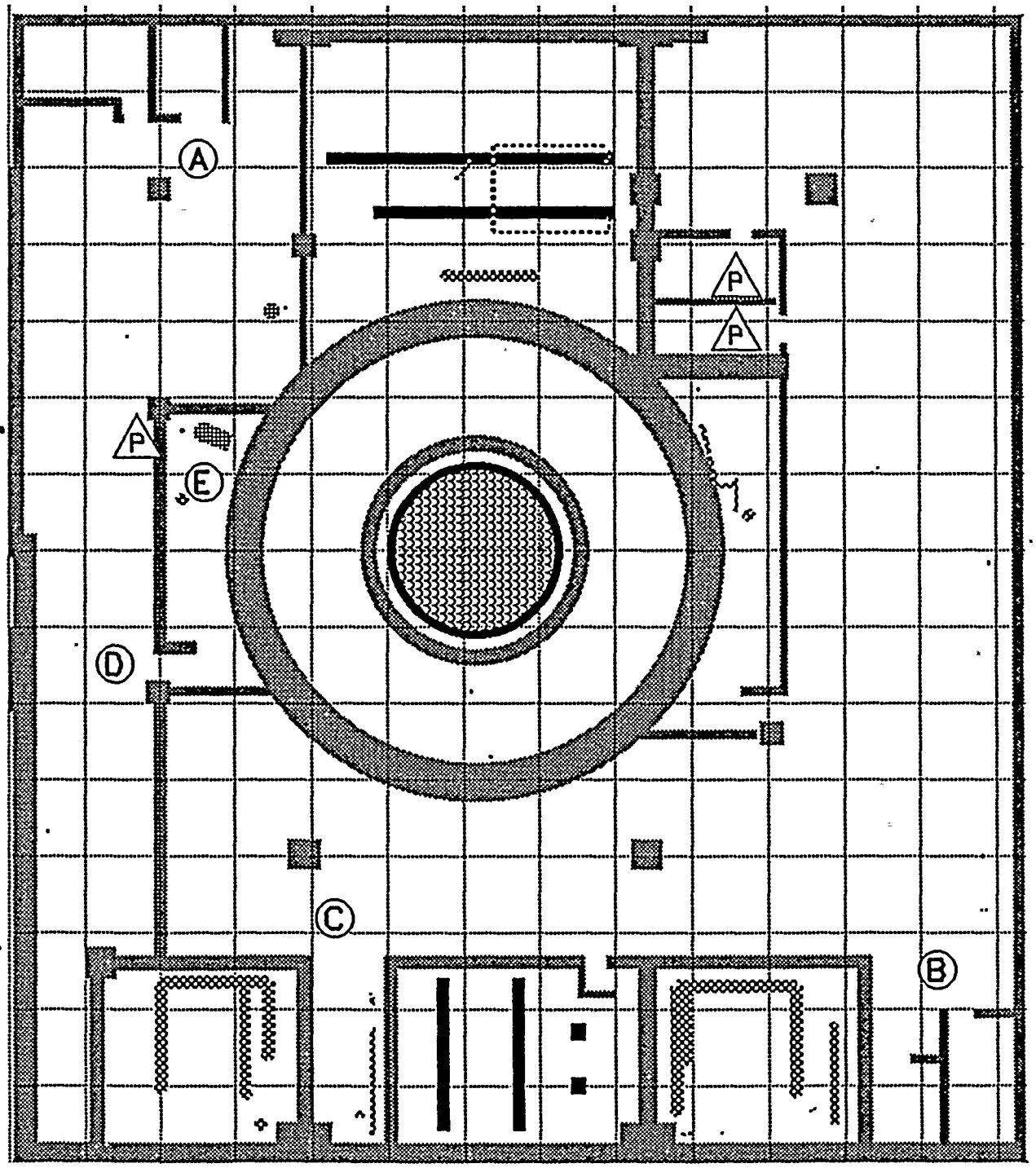
Concrete

Piping

Vent. Ducts

WNP-2

Reactor Building
Elevation
548 feet to 555 feet



Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

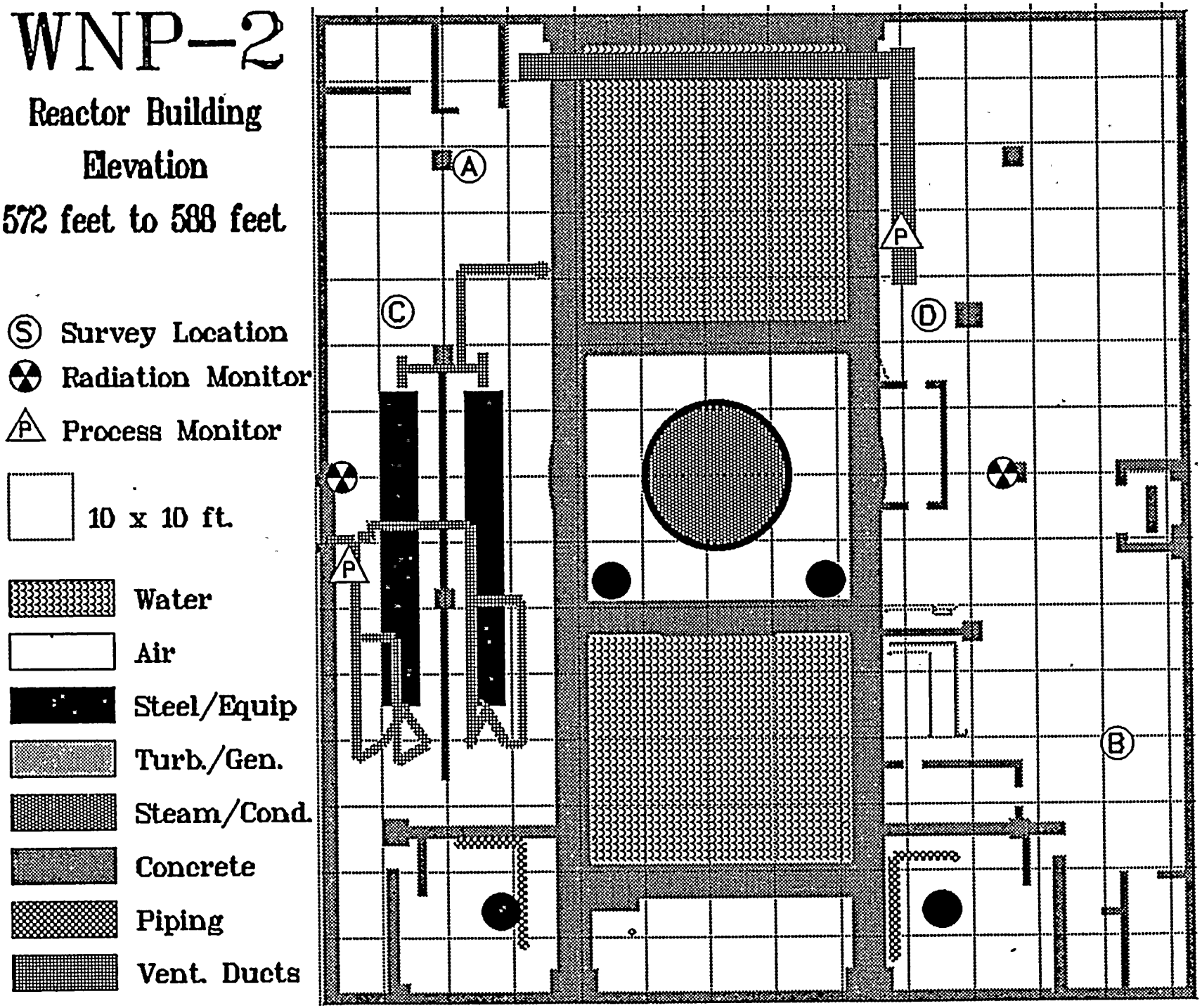
Concrete

Piping

Vent. Ducts

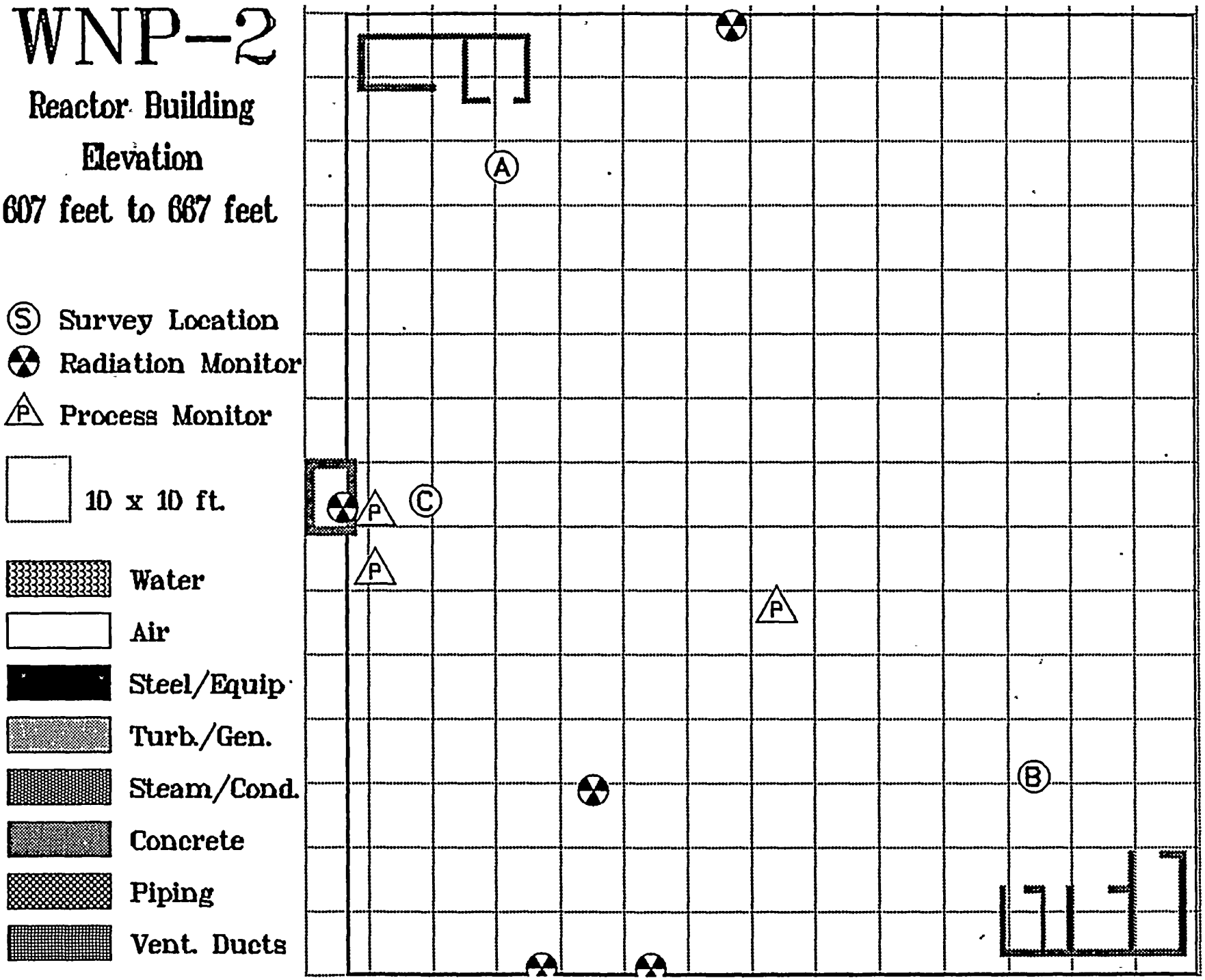
WNP-2

Reactor Building Elevation 572 feet to 588 feet



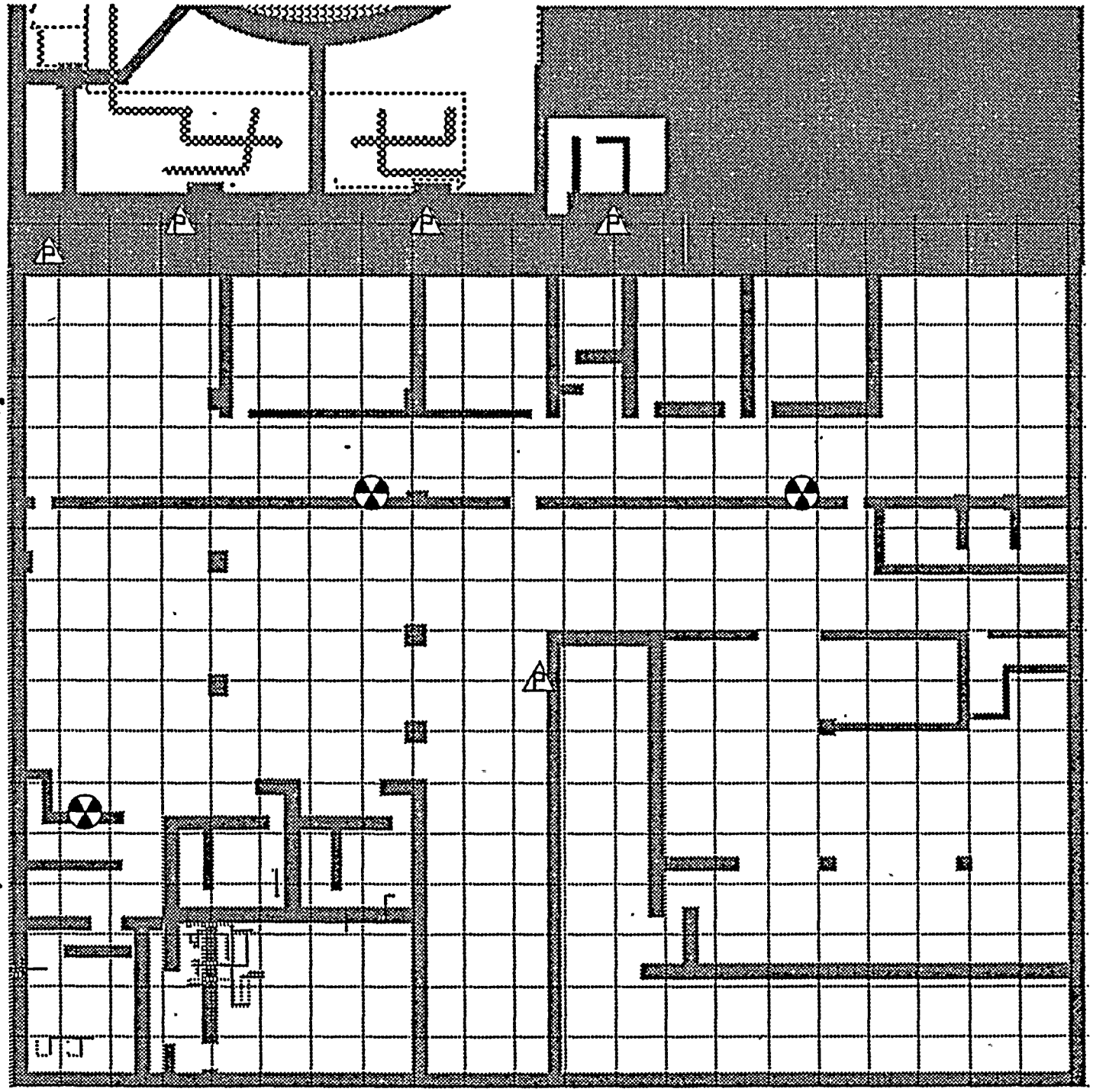
WNP-2

Reactor Building
Elevation
607 feet to 667 feet



WNP-2

Radwaste Building
Elevation
437 feet to 447 feet

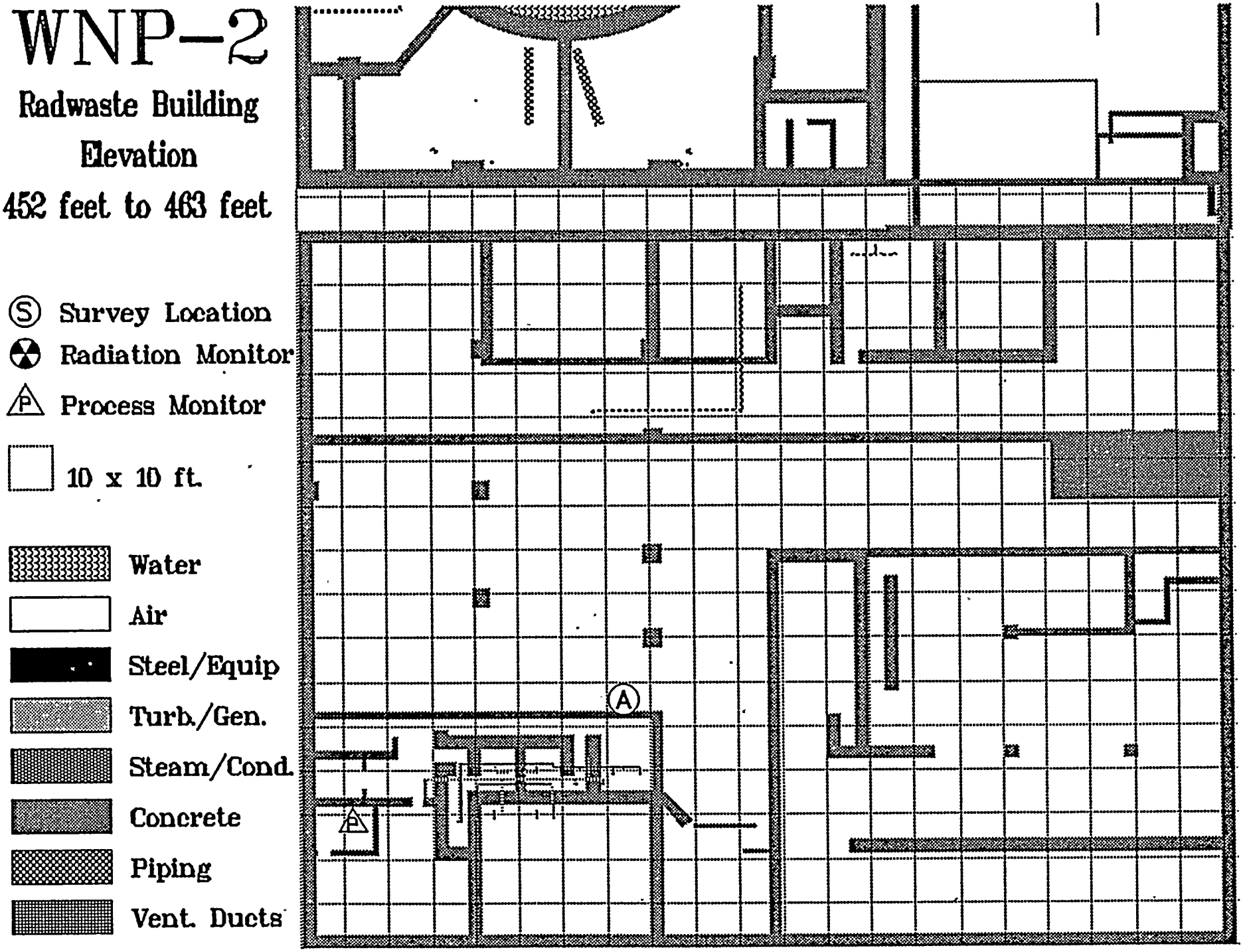


WNP-2

Radwaste Building

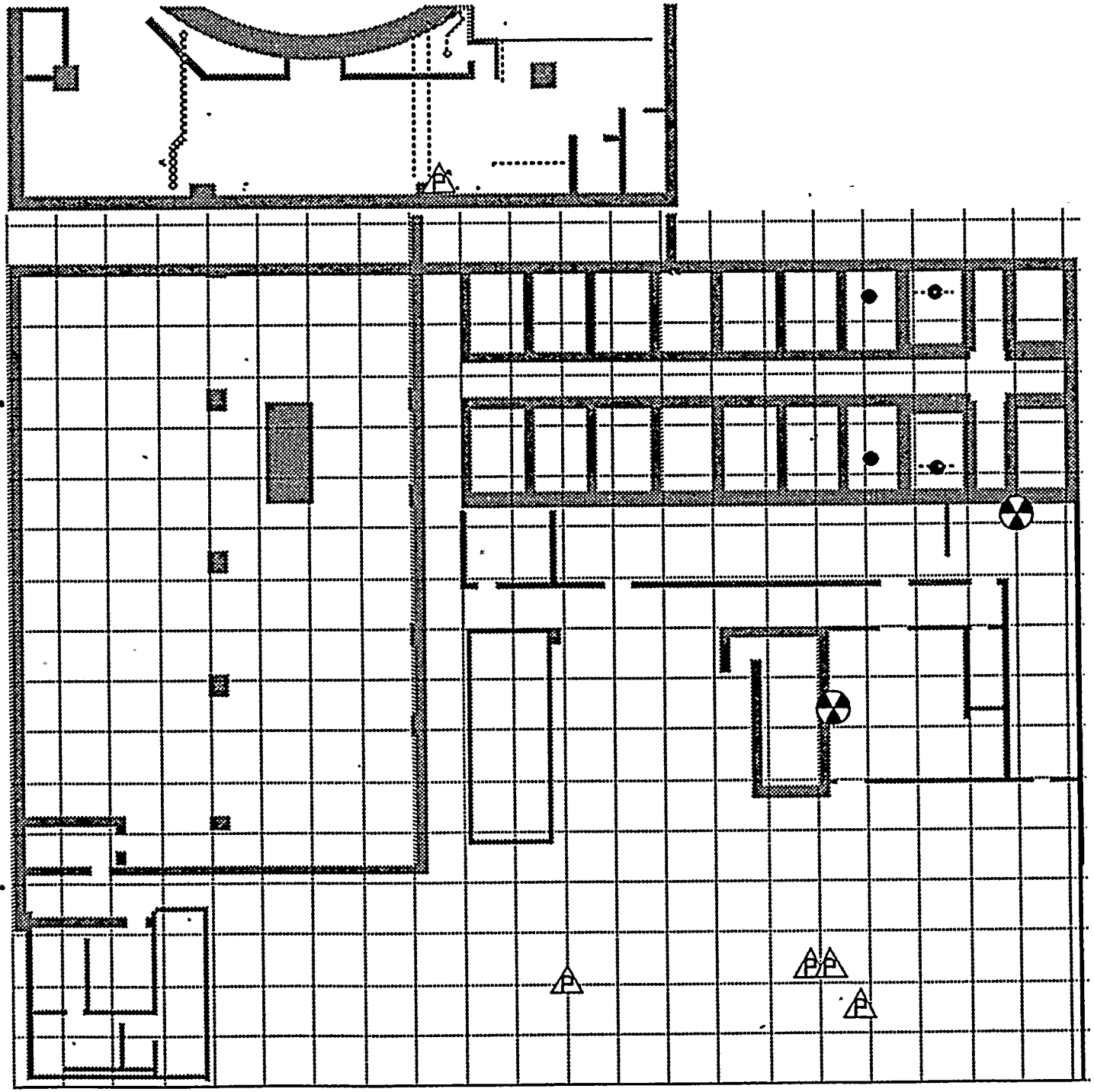
Elevation

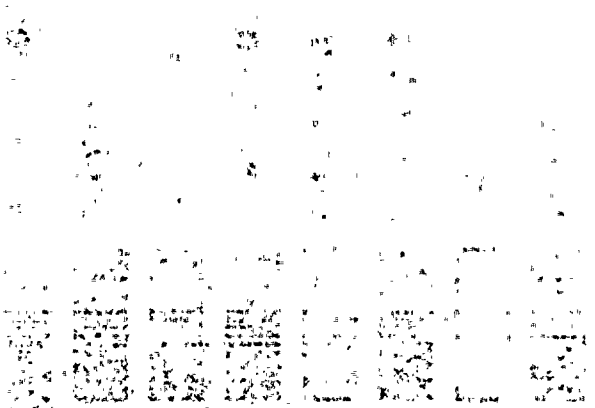
452 feet to 463 feet



WNP-2

Radwaste Building
Elevation
487 feet to 497 feet



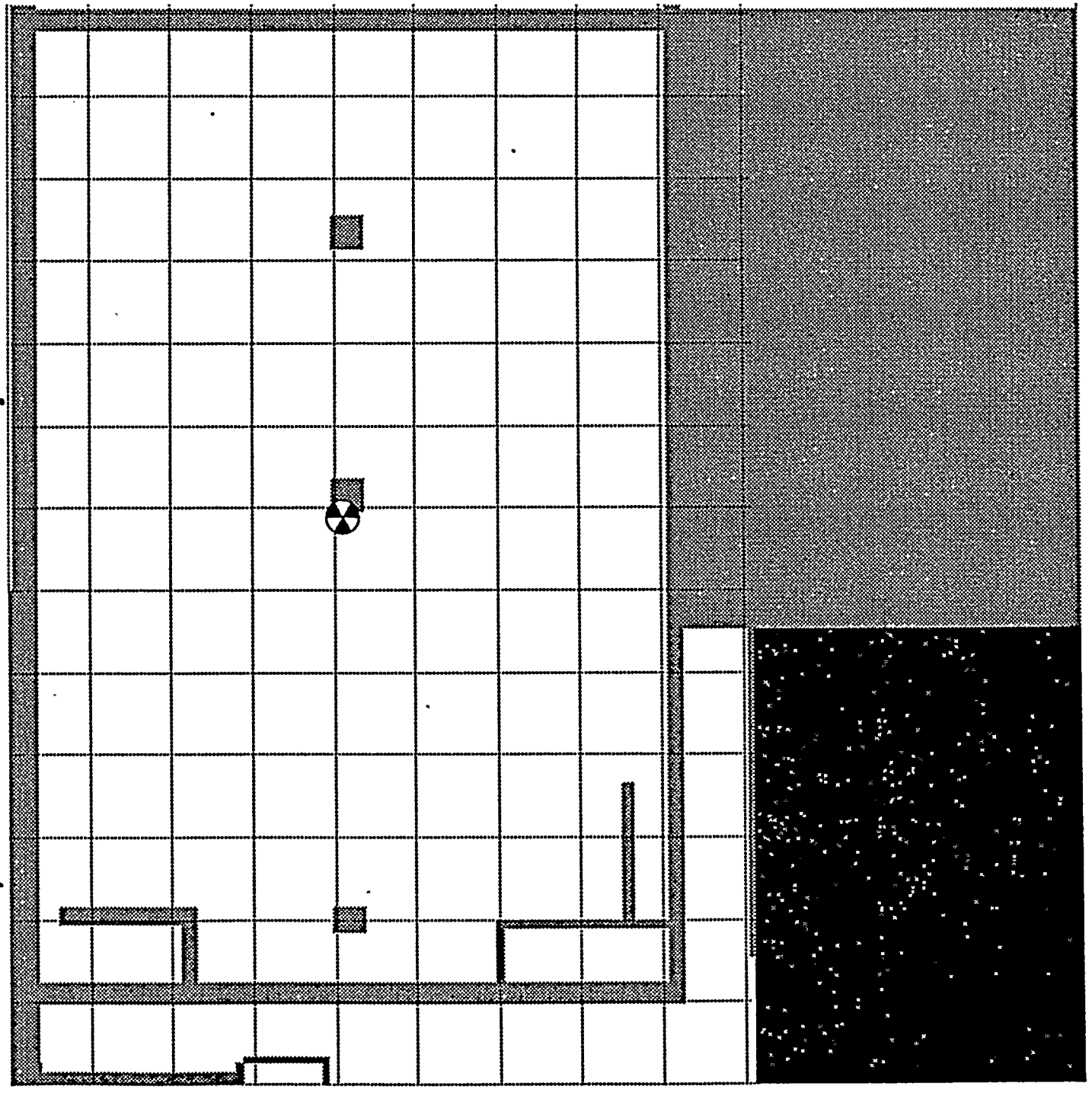


WNP-2

Radwaste Building

Elevation

501 feet to 515 feet

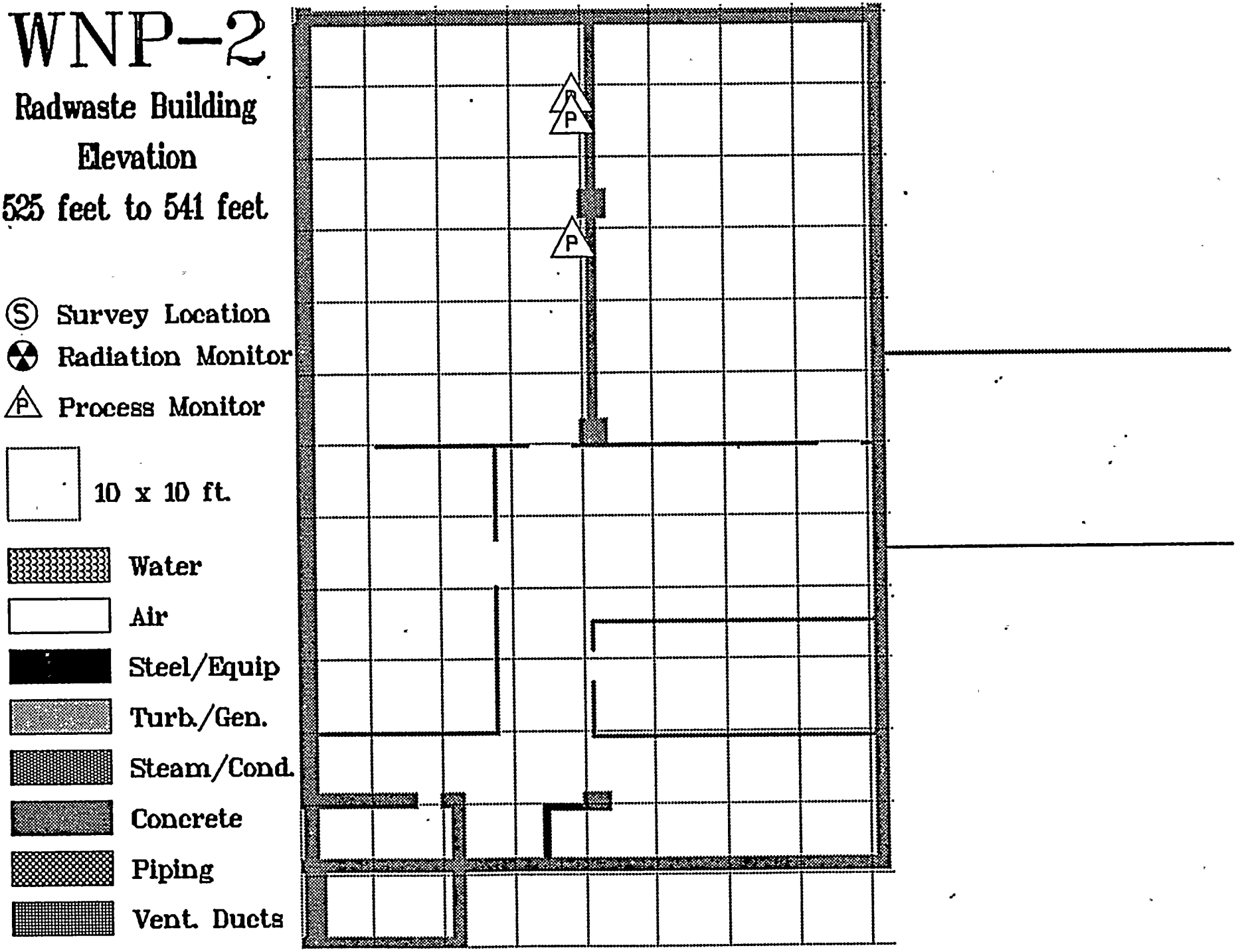


WNP-2

Radwaste Building

Elevation

525 feet to 541 feet



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WNP-2

Service Building

Elevation

441 feet to 451 feet

Ⓢ Survey Location

☢ Radiation Monitor

Ⓟ Process Monitor

□ 10 x 10 ft.

Water

Air

Steel/Equip

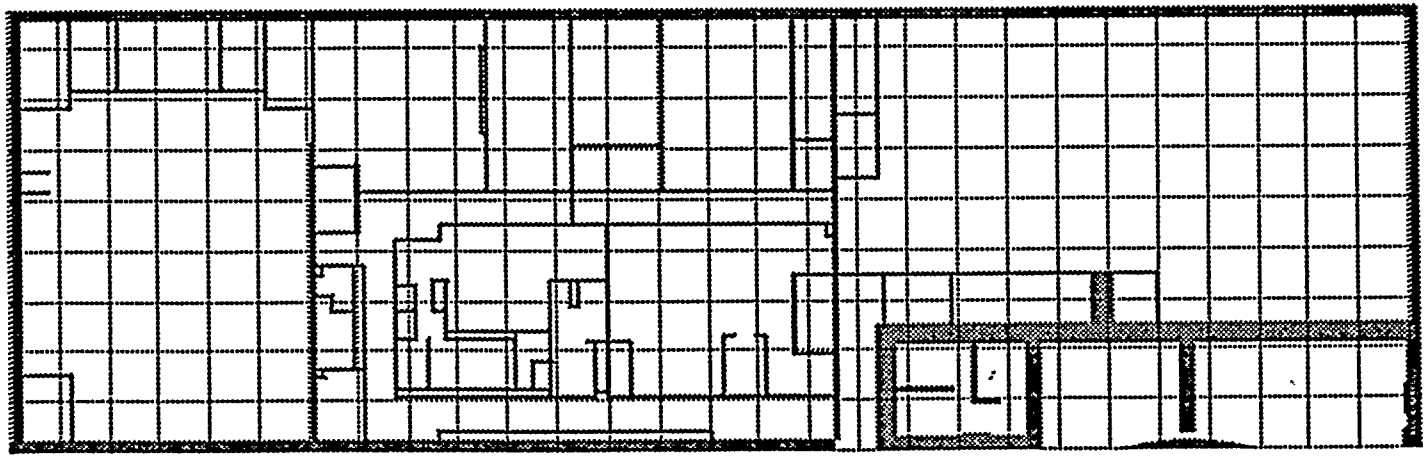
Turb./Gen.

Steam/Cond.

Concrete

Piping

Vent. Ducts



WNP-2

Service Building

Elevation

457 feet to 471 feet

Ⓢ Survey Location

☢ Radiation Monitor

Ⓟ Process Monitor

□ 10 x 10 ft.

Water

Air

Steel/Equip

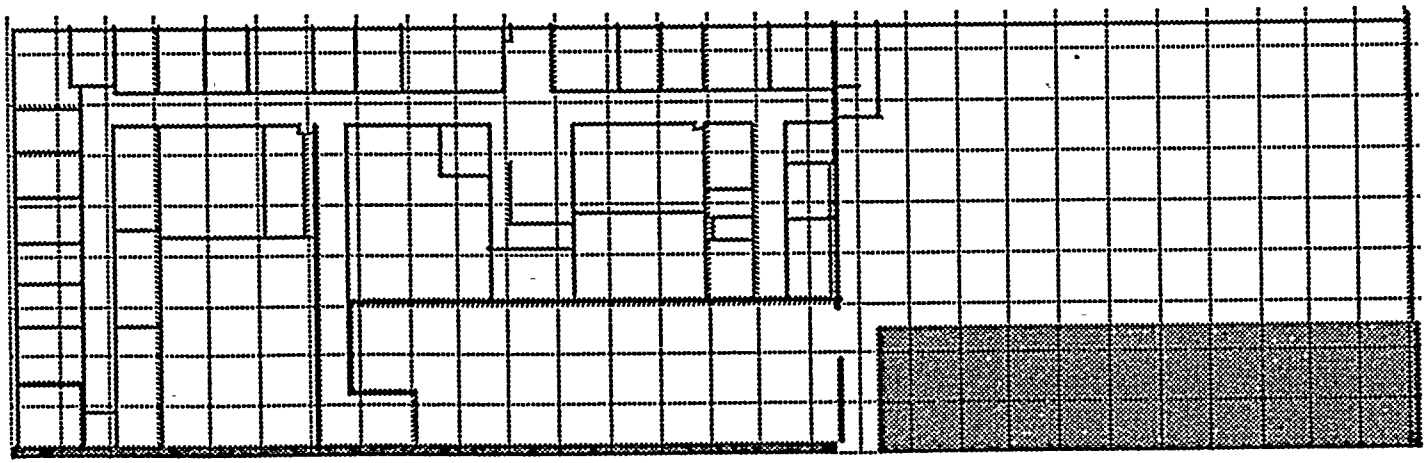
Turb./Gen.

Steam/Cond.

Concrete

Piping

Vent. Ducts

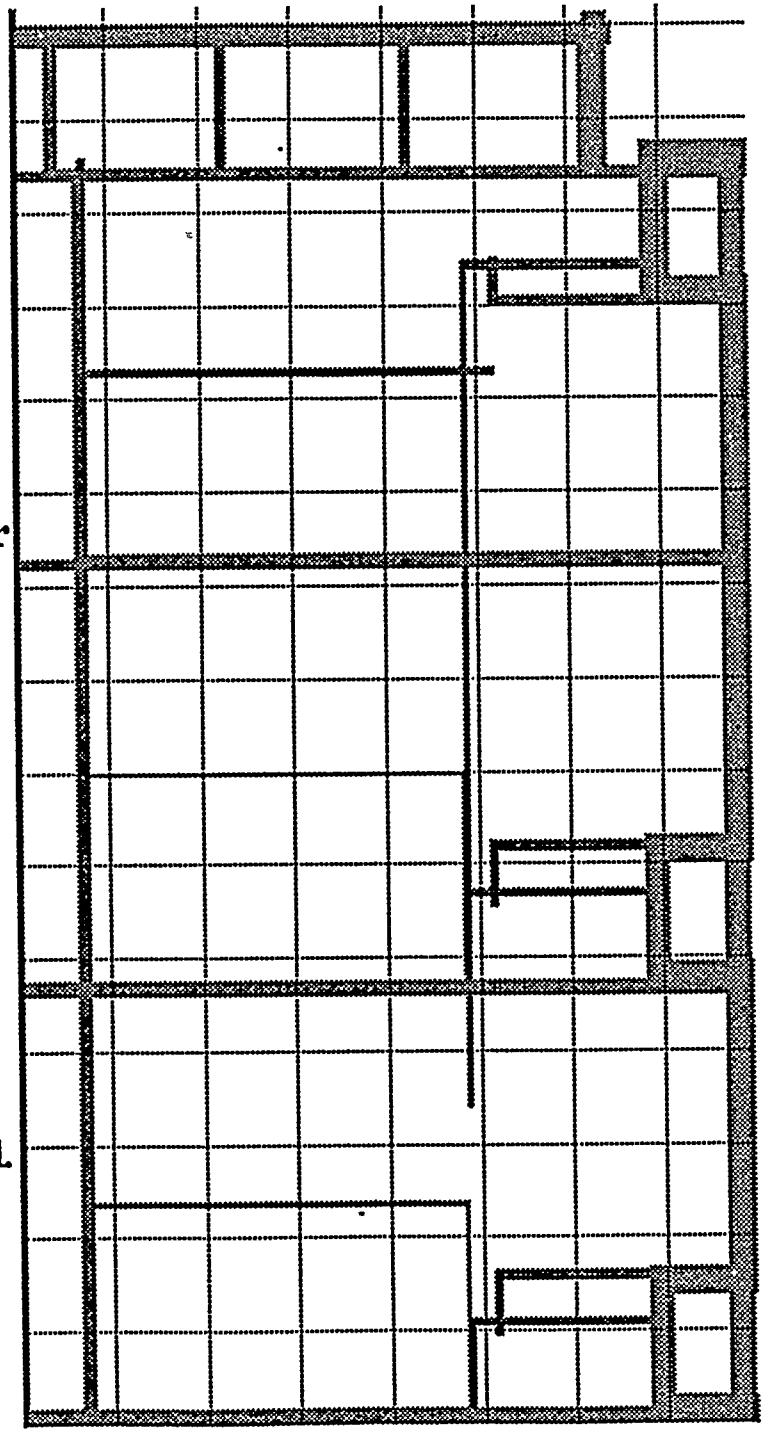


WNP-2

Diesel Gen. Building

Elevation

441 feet to 455 feet



Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

Concrete

Piping

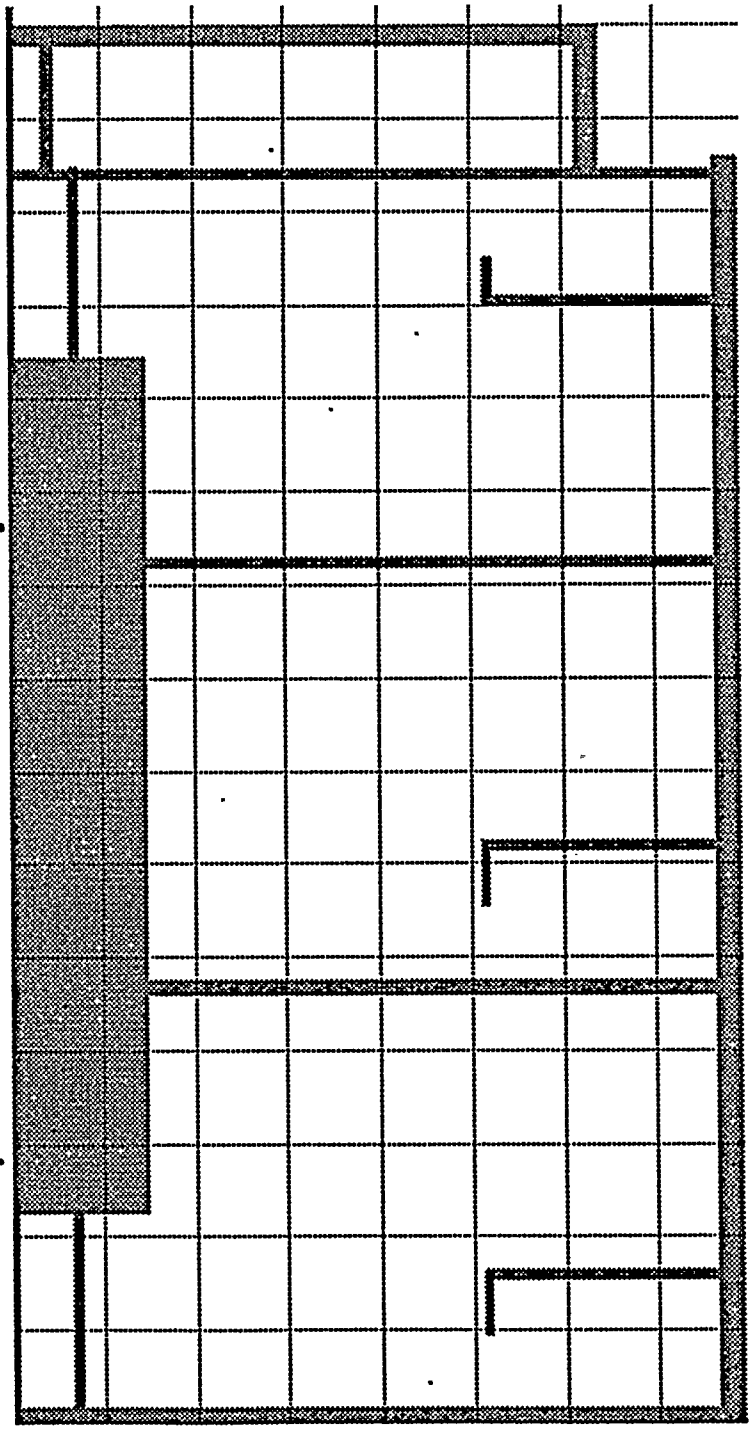
Vent. Ducts

WNP-2

Diesel Gen. Building

Elevation

455 feet to 471 feet



Ⓢ Survey Location

Radiation Monitor

Ⓟ Process Monitor

10 x 10 ft.

Water

Air

Steel/Equip

Turb./Gen.

Steam/Cond.

Concrete

Piping

Vent. Ducts

TABLE P10.a

IN-PLANT SURVEY AND SAMPLING DATA (T = 00:00) (03:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	< 0.1	< 0.1	RBC_548 B	< 0.1	< 0.1
RBC_422 B	< 0.1	< 0.1	RBC_548 C	0.4	0.4
RBC_422 C	< 0.1	< 0.1	RBC_548 D	< 0.1	< 0.1
RBC_422 D	< 0.1	< 0.1	RBC_548 E	< 0.1	< 0.1
RBC_441 A	0.8	0.8	RBC_572 A	< 0.1	< 0.1
RBC_441 B	< 0.1	< 0.1	RBC_572 B	< 0.1	< 0.1
RBC_441 C	< 0.1	< 0.1	RBC_572 C	< 0.1	< 0.1
RBC_441 D	< 0.1	< 0.1	RBC_572 D	< 0.1	< 0.1
RBC_441 E	< 0.1	< 0.1	RBC_607 A	< 0.1	< 0.1
RBC_441 F	< 0.1	< 0.1	RBC_607 B	< 0.1	< 0.1
RBC_441 G	< 0.1	< 0.1	RBC_607 C	< 0.1	< 0.1
RBC_441 H	6.8	6.8	RWC_452 A	< 0.1	< 0.1
RBC_441 I	2.0	2.0	TBC_441 A	0.1	0.1
RBC_471 A	< 0.1	< 0.1	TBC_441 B	< 0.1	< 0.1
RBC_471 B	< 0.1	< 0.1	TBC_441 C	< 0.1	< 0.1
RBC_471 C	0.7	0.7	TBC_441 D	< 0.1	< 0.1
RBC_471 D	< 0.1	< 0.1	TBC_456 A	0.2	0.2
RBC_501 A	< 0.1	< 0.1	TBC_456 B	< 0.1	< 0.1
RBC_501 B	< 0.1	< 0.1	TBC_456 C	< 0.1	< 0.1
RBC_501 C	< 0.1	< 0.1	TBC_471 A	< 0.1	< 0.1
RBC_501 D	0.9	0.9	TBC_471 B	< 0.1	< 0.1
RBC_522 A	< 0.1	< 0.1	TBC_471 C	< 0.1	< 0.1
RBC_522 B	< 0.1	< 0.1	TBC_501 A	< 0.1	< 0.1
RBC_522 C	1.1	1.1	TBC_501 B	< 0.1	< 0.1
RBC_522 D	< 0.1	< 0.1	TBC_501 C	< 0.1	< 0.1
RBC_548 A	0.1	0.1			

TABLE P10.c

IN-PLANT SURVEY AND SAMPLING DATA (T = 03:30) (06:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	< 0.1	< 0.1	RBC_548 B	< 0.1	< 0.1
RBC_422 B	< 0.1	< 0.1	RBC_548 C	0.4	0.4
RBC_422 C	< 0.1	< 0.1	RBC_548 D	< 0.1	< 0.1
RBC_422 D	< 0.1	< 0.1	RBC_548 E	< 0.1	< 0.1
RBC_441 A	4.6	4.6	RBC_572 A	< 0.1	< 0.1
RBC_441 B	< 0.1	< 0.1	RBC_572 B	< 0.1	< 0.1
RBC_441 C	< 0.1	< 0.1	RBC_572 C	< 0.1	< 0.1
RBC_441 D	< 0.1	< 0.1	RBC_572 D	< 0.1	< 0.1
RBC_441 E	< 0.1	< 0.1	RBC_607 A	< 0.1	< 0.1
RBC_441 F	< 0.1	< 0.1	RBC_607 B	< 0.1	< 0.1
RBC_441 G	< 0.1	< 0.1	RBC_607 C	< 0.1	< 0.1
RBC_441 H	6.8	6.8	RWC_452 A	< 0.1	< 0.1
RBC_441 I	2.1	2.1	TBC_441 A	0.1	0.1
RBC_471 A	< 0.1	< 0.1	TBC_441 B	< 0.1	< 0.1
RBC_471 B	< 0.1	< 0.1	TBC_441 C	< 0.1	< 0.1
RBC_471 C	0.7	0.7	TBC_441 D	< 0.1	< 0.1
RBC_471 D	< 0.1	< 0.1	TBC_456 A	0.3	0.3
RBC_501 A	< 0.1	< 0.1	TBC_456 B	< 0.1	< 0.1
RBC_501 B	< 0.1	< 0.1	TBC_456 C	< 0.1	< 0.1
RBC_501 C	< 0.1	< 0.1	TBC_471 A	< 0.1	< 0.1
RBC_501 D	0.9	0.9	TBC_471 B	< 0.1	< 0.1
RBC_522 A	< 0.1	< 0.1	TBC_471 C	< 0.1	< 0.1
RBC_522 B	< 0.1	< 0.1	TBC_501 A	< 0.1	< 0.1
RBC_522 C	1.1	1.1	TBC_501 B	< 0.1	< 0.1
RBC_522 D	< 0.1	< 0.1	TBC_501 C	< 0.1	< 0.1
RBC_548 A	0.1	0.1			

TABLE P10.d

IN-PLANT SURVEY AND SAMPLING DATA (T = 03:45) (06:45)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	0.2	1.2	RBC_548 B	0.3	1.3
RBC_422 B	0.2	1.2	RBC_548 C	0.2	1.2
RBC_422 C	0.1	1.1	RBC_548 D	0.2	1.2
RBC_422 D	0.1	1.1	RBC_548 E	0.1	1.1
RBC_441 A	4.4	5.3	RBC_572 A	0.3	1.3
RBC_441 B	0.2	1.1	RBC_572 B	0.3	1.3
RBC_441 C	0.2	1.2	RBC_572 C	0.3	1.3
RBC_441 D	0.2	1.2	RBC_572 D	0.3	1.3
RBC_441 E	0.2	1.2	RBC_607 A	0.5	1.5
RBC_441 F	0.2	1.2	RBC_607 B	0.5	1.5
RBC_441 G	0.3	1.3	RBC_607 C	0.5	1.5
RBC_441 H	0.2	1.2	RWC_452 A	< 0.1	< 0.1
RBC_441 I	0.3	1.3	TBC_441 A	0.1	0.1
RBC_471 A	0.4	1.3	TBC_441 B	< 0.1	< 0.1
RBC_471 B	0.1	1.1	TBC_441 C	< 0.1	< 0.1
RBC_471 C	0.3	1.3	TBC_441 D	< 0.1	< 0.1
RBC_471 D	0.4	1.3	TBC_456 A	0.2	0.2
RBC_501 A	0.2	1.2	TBC_456 B	< 0.1	< 0.1
RBC_501 B	0.3	1.3	TBC_456 C	< 0.1	< 0.1
RBC_501 C	0.3	1.3	TBC_471 A	< 0.1	< 0.1
RBC_501 D	0.3	1.3	TBC_471 B	< 0.1	< 0.1
RBC_522 A	0.3	1.3	TBC_471 C	< 0.1	< 0.1
RBC_522 B	0.2	1.2	TBC_501 A	< 0.1	< 0.1
RBC_522 C	0.3	1.3	TBC_501 B	< 0.1	< 0.1
RBC_522 D	0.3	1.2	TBC_501 C	< 0.1	< 0.1
RBC_548 A	0.2	1.2			

TABLE P10.e

IN-PLANT SURVEY AND SAMPLING DATA (T = 04:00) (07:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	0.2	1.2	RBC_548 B	0.3	1.3
RBC_422 B	0.2	1.2	RBC_548 C	0.2	1.2
RBC_422 C	0.1	1.1	RBC_548 D	0.2	1.2
RBC_422 D	0.1	1.1	RBC_548 E	0.1	1.1
RBC_441 A	4.1	5.1	RBC_572 A	0.3	1.3
RBC_441 B	0.2	1.2	RBC_572 B	0.3	1.3
RBC_441 C	0.2	1.2	RBC_572 C	0.3	1.3
RBC_441 D	0.2	1.2	RBC_572 D	0.3	1.3
RBC_441 E	0.2	1.2	RBC_607 A	0.5	1.5
RBC_441 F	0.2	1.2	RBC_607 B	0.5	1.5
RBC_441 G	0.3	1.3	RBC_607 C	0.5	1.5
RBC_441 H	0.2	1.2	RWC_452 A	< 0.1	< 0.1
RBC_441 I	0.3	1.3	TBC_441 A	0.1	0.1
RBC_471 A	0.3	1.3	TBC_441 B	< 0.1	< 0.1
RBC_471 B	0.1	1.1	TBC_441 C	< 0.1	< 0.1
RBC_471 C	0.3	1.3	TBC_441 D	< 0.1	< 0.1
RBC_471 D	0.3	1.3	TBC_456 A	0.2	0.2
RBC_501 A	0.2	1.2	TBC_456 B	< 0.1	< 0.1
RBC_501 B	0.3	1.3	TBC_456 C	< 0.1	< 0.1
RBC_501 C	0.3	1.3	TBC_471 A	< 0.1	< 0.1
RBC_501 D	0.3	1.3	TBC_471 B	< 0.1	< 0.1
RBC_522 A	0.3	1.3	TBC_471 C	< 0.1	< 0.1
RBC_522 B	0.2	1.2	TBC_501 A	< 0.1	< 0.1
RBC_522 C	0.3	1.3	TBC_501 B	< 0.1	< 0.1
RBC_522 D	0.3	1.3	TBC_501 C	< 0.1	< 0.1
RBC_548 A	0.2	1.2			

TABLE P10.f

IN-PLANT SURVEY AND SAMPLING DATA (T = 04:15) (07:15)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	5900.	1.4E4	RBC_548 B	7300.	1.6E4
RBC_422 B	5800.	1.4E4	RBC_548 C	4100.	1.2E4
RBC_422 C	3000.	1.1E4	RBC_548 D	5700.	1.4E4
RBC_422 D	3200.	1.1E4	RBC_548 E	3000.	1.1E4
RBC_441 A	3500.	1.2E4	RBC_572 A	7400.	1.6E4
RBC_441 B	3700.	1.2E4	RBC_572 B	8000.	1.6E4
RBC_441 C	5800.	1.4E4	RBC_572 C	7400.	1.6E4
RBC_441 D	5900.	1.4E4	RBC_572 D	8000.	1.6E4
RBC_441 E	4800.	1.3E4	RBC_607 A	1.2E4	2.0E4
RBC_441 F	5300.	1.4E4	RBC_607 B	1.2E4	2.0E4
RBC_441 G	5500.	1.4E4	RBC_607 C	1.2E4	2.0E4
RBC_441 H	5900.	1.4E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	6600.	1.5E4	TBC_441 A	0.1	0.1
RBC_471 A	8500.	1.7E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	3000.	1.1E4	TBC_441 C	< 0.1	< 0.1
RBC_471 C	7500.	1.6E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	8400.	1.7E4	TBC_456 A	0.2	0.2
RBC_501 A	4300.	1.3E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	7500.	1.6E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	7500.	1.6E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	6500.	1.5E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	7700.	1.6E4	TBC_471 C	0.3	0.3
RBC_522 B	6000.	1.4E4	TBC_501 A	7.7	7.7
RBC_522 C	7700.	1.6E4	TBC_501 B	4.0	4.0
RBC_522 D	6500.	1.5E4	TBC_501 C	5.0	5.0
RBC_548 A	5700.	1.4E4			

TABLE P10.g

IN-PLANT SURVEY AND SAMPLING DATA (T = 04:30) (07:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	6900.	1.8E4	RBC_548 B	8400.	2.0E4
RBC_422 B	6700.	1.8E4	RBC_548 C	4800.	1.6E4
RBC_422 C	3400.	1.5E4	RBC_548 D	6600.	1.8E4
RBC_422 D	3700.	1.5E4	RBC_548 E	3400.	1.5E4
RBC_441 A	4000.	1.5E4	RBC_572 A	8700.	2.0E4
RBC_441 B	4300.	1.6E4	RBC_572 B	9200.	2.1E4
RBC_441 C	6700.	1.8E4	RBC_572 C	8500.	2.0E4
RBC_441 D	6900.	1.8E4	RBC_572 D	9200.	2.1E4
RBC_441 E	5500.	1.7E4	RBC_607 A	1.4E4	2.5E4
RBC_441 F	6100.	1.7E4	RBC_607 B	1.4E4	2.5E4
RBC_441 G	6300.	1.8E4	RBC_607 C	1.4E4	2.5E4
RBC_441 H	6800.	1.8E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	7600.	1.9E4	TBC_441 A	0.1	0.1
RBC_471 A	9800.	2.1E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	3500.	1.5E4	TBC_441 C	< 0.1	< 0.1
RBC_471 C	8600.	2.0E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	9700.	2.1E4	TBC_456 A	0.2	0.2
RBC_501 A	5000.	1.6E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	8600.	2.0E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	8600.	2.0E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	7500.	1.9E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	8900.	2.0E4	TBC_471 C	0.3	0.3
RBC_522 B	6900.	1.8E4	TBC_501 A	9.2	9.2
RBC_522 C	8900.	2.0E4	TBC_501 B	4.8	4.8
RBC_522 D	7500.	1.9E4	TBC_501 C	5.8	5.8
RBC_548 A	6600.	1.8E4			

TABLE P10.h

IN-PLANT SURVEY AND SAMPLING DATA (T = 04:45) (07:45)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	5500.	1.6E4	RBC_548 B	6700.	1.7E4
RBC_422 B	5400.	1.6E4	RBC_548 C	3800.	1.5E4
RBC_422 C	2700.	1.3E4	RBC_548 D	5200.	1.6E4
RBC_422 D	3000.	1.4E4	RBC_548 E	2700.	1.3E4
RBC_441 A	3200.	1.4E4	RBC_572 A	7100.	1.8E4
RBC_441 B	3500.	1.4E4	RBC_572 B	7400.	1.8E4
RBC_441 C	5400.	1.6E4	RBC_572 C	6800.	1.8E4
RBC_441 D	5500.	1.6E4	RBC_572 D	7400.	1.8E4
RBC_441 E	4400.	1.5E4	RBC_607 A	1.1E4	2.2E4
RBC_441 F	4900.	1.6E4	RBC_607 B	1.1E4	2.2E4
RBC_441 G	5000.	1.6E4	RBC_607 C	1.1E4	2.2E4
RBC_441 H	5400.	1.6E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	6000.	1.7E4	TBC_441 A	0.1	0.1
RBC_471 A	7800.	1.9E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	2800.	1.4E4	TBC_441 C	< 0.1	< 0.1
RBC_471 C	6900.	1.8E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	7700.	1.8E4	TBC_456 A	0.2	0.2
RBC_501 A	4000.	1.5E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	6900.	1.8E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	6900.	1.8E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	6000.	1.7E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	7100.	1.8E4	TBC_471 C	0.3	0.3
RBC_522 B	5500.	1.6E4	TBC_501 A	7.7	7.7
RBC_522 C	7100.	1.8E4	TBC_501 B	3.9	3.9
RBC_522 D	6000.	1.7E4	TBC_501 C	4.8	4.8
RBC_548 A	5200.	1.6E4			

TABLE P10.i

IN-PLANT SURVEY AND SAMPLING DATA (T = 05:00) (08:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	4500.	1.5E4	RBC_548 B	5400.	1.6E4
RBC_422 B	4400.	1.5E4	RBC_548 C	3100.	1.3E4
RBC_422 C	2200.	1.2E4	RBC_548 D	4300.	1.4E4
RBC_422 D	2400.	1.3E4	RBC_548 E	2200.	1.2E4
RBC_441 A	2600.	1.3E4	RBC_572 A	5900.	1.6E4
RBC_441 B	2800.	1.3E4	RBC_572 B	6000.	1.6E4
RBC_441 C	4400.	1.5E4	RBC_572 C	5600.	1.6E4
RBC_441 D	4500.	1.5E4	RBC_572 D	6000.	1.6E4
RBC_441 E	3600.	1.4E4	RBC_607 A	9100.	1.9E4
RBC_441 F	3900.	1.4E4	RBC_607 B	9100.	1.9E4
RBC_441 G	4100.	1.4E4	RBC_607 C	9200.	1.9E4
RBC_441 H	4400.	1.5E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	4900.	1.5E4	TBC_441 A	0.1	0.1
RBC_471 A	6400.	1.7E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	2300.	1.2E4	TBC_441 C	< 0.1	< 0.1
RBC_471 C	5600.	1.6E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	6300.	1.6E4	TBC_456 A	0.2	0.2
RBC_501 A	3200.	1.3E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	5600.	1.6E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	5600.	1.6E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	4900.	1.5E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	5800.	1.6E4	TBC_471 C	0.2	0.2
RBC_522 B	4500.	1.5E4	TBC_501 A	6.5	6.5
RBC_522 C	5800.	1.6E4	TBC_501 B	3.3	3.3
RBC_522 D	4900.	1.5E4	TBC_501 C	4.0	4.0
RBC_548 A	4300.	1.4E4			

TABLE P10.j

IN-PLANT SURVEY AND SAMPLING DATA (T = 05:30) (08:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	3100.	1.2E4	RBC_548 B	3800.	1.3E4
RBC_422 B	3100.	1.2E4	RBC_548 C	2200.	1.1E4
RBC_422 C	1600.	1.1E4	RBC_548 D	3000.	1.2E4
RBC_422 D	1700.	1.1E4	RBC_548 E	1600.	1.1E4
RBC_441 A	1800.	1.1E4	RBC_572 A	4300.	1.4E4
RBC_441 B	2000.	1.1E4	RBC_572 B	4200.	1.3E4
RBC_441 C	3100.	1.2E4	RBC_572 C	3900.	1.3E4
RBC_441 D	3100.	1.2E4	RBC_572 D	4200.	1.3E4
RBC_441 E	2500.	1.2E4	RBC_607 A	6400.	1.6E4
RBC_441 F	2800.	1.2E4	RBC_607 B	6400.	1.6E4
RBC_441 G	2900.	1.2E4	RBC_607 C	6500.	1.6E4
RBC_441 H	3100.	1.2E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	3400.	1.3E4	TBC_441 A	0.1	0.1
RBC_471 A	4500.	1.4E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	1600.	1.1E4	TBC_441 C	< 0.1	< 0.1
RBC_471 C	3900.	1.3E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	4400.	1.4E4	TBC_456 A	0.2	0.2
RBC_501 A	2300.	1.1E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	3900.	1.3E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	3900.	1.3E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	3400.	1.3E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	4000.	1.3E4	TBC_471 C	0.2	0.2
RBC_522 B	3100.	1.2E4	TBC_501 A	4.9	4.9
RBC_522 C	4000.	1.3E4	TBC_501 B	2.5	2.5
RBC_522 D	3400.	1.3E4	TBC_501 C	2.9	2.9
RBC_548 A	3000.	1.2E4			

TABLE P10.k

IN-PLANT SURVEY AND SAMPLING DATA (T = 05:45) (08:45)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	2700.	1.1E4	RBC_548 B	3300.	1.2E4
RBC_422 B	2600.	1.1E4	RBC_548 C	1900.	1.1E4
RBC_422 C	1300.	1.0E4	RBC_548 D	2600.	1.1E4
RBC_422 D	1500.	1.0E4	RBC_548 E	1300.	1.0E4
RBC_441 A	1600.	1.0E4	RBC_572 A	3800.	1.3E4
RBC_441 B	1700.	1.0E4	RBC_572 B	3600.	1.2E4
RBC_441 C	2600.	1.1E4	RBC_572 C	3300.	1.2E4
RBC_441 D	2700.	1.1E4	RBC_572 D	3600.	1.2E4
RBC_441 E	2200.	1.1E4	RBC_607 A	5500.	1.4E4
RBC_441 F	2400.	1.1E4	RBC_607 B	5500.	1.4E4
RBC_441 G	2500.	1.1E4	RBC_607 C	5600.	1.4E4
RBC_441 H	2700.	1.1E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	3000.	1.2E4	TBC_441 A	0.1	0.1
RBC_471 A	3800.	1.3E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	1400.	1.0E4	TBC_441 C	< 0.1	< 0.1
RBC_471 C	3400.	1.2E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	3800.	1.3E4	TBC_456 A	0.2	0.2
RBC_501 A	2000.	1.1E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	3400.	1.2E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	3400.	1.2E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	2900.	1.2E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	3500.	1.2E4	TBC_471 C	0.2	0.2
RBC_522 B	2700.	1.1E4	TBC_501 A	4.4	4.4
RBC_522 C	3500.	1.2E4	TBC_501 B	2.2	2.2
RBC_522 D	2900.	1.2E4	TBC_501 C	2.6	2.6
RBC_548 A	2600.	1.1E4			

TABLE P10.1

IN-PLANT SURVEY AND SAMPLING DATA (T = 06:00) (09:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	2400.	1.1E4	RBC_548 B	2900.	1.1E4
RBC_422 B	2300.	1.1E4	RBC_548 C	1600.	1.0E4
RBC_422 C	1200.	9600.	RBC_548 D	2300.	1.1E4
RBC_422 D	1300.	9700.	RBC_548 E	1200.	9600.
RBC_441 A	1400.	9800.	RBC_572 A	3400.	1.2E4
RBC_441 B	1500.	9900.	RBC_572 B	3200.	1.2E4
RBC_441 C	2300.	1.1E4	RBC_572 C	2900.	1.1E4
RBC_441 D	2400.	1.1E4	RBC_572 D	3200.	1.2E4
RBC_441 E	1900.	1.0E4	RBC_607 A	4800.	1.3E4
RBC_441 F	2100.	1.1E4	RBC_607 B	4800.	1.3E4
RBC_441 G	2200.	1.1E4	RBC_607 C	5000.	1.3E4
RBC_441 H	2300.	1.1E4	RWC_452 A	< 0.1	< 0.1
RBC_441 I	2600.	1.1E4	TBC_441 A	0.1	0.1
RBC_471 A	3400.	1.2E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	1200.	9600.	TBC_441 C	< 0.1	< 0.1
RBC_471 C	3000.	1.1E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	3300.	1.2E4	TBC_456 A	0.2	0.2
RBC_501 A	1700.	1.0E4	TBC_456 B	< 0.1	< 0.1
RBC_501 B	3000.	1.1E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	3000.	1.1E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	2600.	1.1E4	TBC_471 B	< 0.1	< 0.1
RBC_522 A	3000.	1.1E4	TBC_471 C	0.1	0.1
RBC_522 B	2400.	1.1E4	TBC_501 A	4.0	4.0
RBC_522 C	3000.	1.1E4	TBC_501 B	2.0	2.0
RBC_522 D	2600.	1.1E4	TBC_501 C	2.3	2.3
RBC_548 A	2300.	1.1E4			

TABLE P10.m

IN-PLANT SURVEY AND SAMPLING DATA (T = 06:30) (09:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	1900.	9600.	RBC_548 B	2300.	1.0E4
RBC_422 B	1900.	9600.	RBC_548 C	1300.	9100.
RBC_422 C	950.	8700.	RBC_548 D	1800.	9600.
RBC_422 D	1000.	8800.	RBC_548 E	940.	8700.
RBC_441 A	1100.	8800.	RBC_572 A	2800.	1.1E4
RBC_441 B	1200.	8900.	RBC_572 B	2500.	1.0E4
RBC_441 C	1900.	9600.	RBC_572 C	2400.	1.0E4
RBC_441 D	1900.	9600.	RBC_572 D	2500.	1.0E4
RBC_441 E	1500.	9300.	RBC_607 A	3900.	1.2E4
RBC_441 F	1700.	9400.	RBC_607 B	3900.	1.2E4
RBC_441 G	1700.	9500.	RBC_607 C	4000.	1.2E4
RBC_441 H	1900.	9600.	RWC_452 A	< 0.1	< 0.1
RBC_441 I	2100.	9800.	TBC_441 A	< 0.1	< 0.1
RBC_471 A	2700.	1.0E4	TBC_441 B	< 0.1	< 0.1
RBC_471 B	970.	8700.	TBC_441 C	< 0.1	< 0.1
RBC_471 C	2400.	1.0E4	TBC_441 D	< 0.1	< 0.1
RBC_471 D	2700.	1.0E4	TBC_456 A	0.2	0.2
RBC_501 A	1400.	9100.	TBC_456 B	< 0.1	< 0.1
RBC_501 B	2400.	1.0E4	TBC_456 C	< 0.1	< 0.1
RBC_501 C	2400.	1.0E4	TBC_471 A	< 0.1	< 0.1
RBC_501 D	2100.	9800.	TBC_471 B	< 0.1	< 0.1
RBC_522 A	2400.	1.0E4	TBC_471 C	0.1	0.1
RBC_522 B	1900.	9600.	TBC_501 A	3.2	3.2
RBC_522 C	2400.	1.0E4	TBC_501 B	1.7	1.7
RBC_522 D	2100.	9800.	TBC_501 C	1.9	1.9
RBC_548 A	1800.	9600.			

TABLE P10.n

IN-PLANT SURVEY AND SAMPLING DATA (T = 07:00) (10:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	1600.	8800.	RBC_548 B	1900.	9100.
RBC_422 B	1600.	8700.	RBC_548 C	1100.	8300.
RBC_422 C	800.	8000.	RBC_548 D	1500.	8700.
RBC_422 D	860.	8000.	RBC_548 E	790.	7900.
RBC_441 A	940.	8100.	RBC_572 A	2500.	9600.
RBC_441 B	1000.	8200.	RBC_572 B	2100.	9300.
RBC_441 C	1600.	8700.	RBC_572 C	2000.	9100.
RBC_441 D	1600.	8800.	RBC_572 D	2100.	9300.
RBC_441 E	1300.	8400.	RBC_607 A	3300.	1.0E4
RBC_441 F	1400.	8600.	RBC_607 B	3300.	1.0E4
RBC_441 G	1500.	8600.	RBC_607 C	3400.	1.1E4
RBC_441 H	1600.	8700.	RWC_452 A	< 0.1	< 0.1
RBC_441 I	1800.	8900.	TBC_441 A	< 0.1	< 0.1
RBC_471 A	2300.	9400.	TBC_441 B	< 0.1	< 0.1
RBC_471 B	810.	8000.	TBC_441 C	< 0.1	< 0.1
RBC_471 C	2000.	9200.	TBC_441 D	< 0.1	< 0.1
RBC_471 D	2200.	9400.	TBC_456 A	0.2	0.2
RBC_501 A	1200.	8300.	TBC_456 B	< 0.1	< 0.1
RBC_501 B	2000.	9200.	TBC_456 C	< 0.1	< 0.1
RBC_501 C	2000.	9200.	TBC_471 A	< 0.1	< 0.1
RBC_501 D	1700.	8900.	TBC_471 B	< 0.1	< 0.1
RBC_522 A	2100.	9200.	TBC_471 C	0.1	0.1
RBC_522 B	1600.	8800.	TBC_501 A	2.6	2.6
RBC_522 C	2100.	9200.	TBC_501 B	1.5	1.5
RBC_522 D	1700.	8900.	TBC_501 C	1.7	1.7
RBC_548 A	1500.	8700.			

TABLE P10.o

IN-PLANT SURVEY AND SAMPLING DATA (T = 07:30) (10:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	1400.	8000.	RBC_548 B	1700.	8300.
RBC_422 B	1400.	8000.	RBC_548 C	970.	7600.
RBC_422 C	700.	7300.	RBC_548 D	1300.	8000.
RBC_422 D	760.	7400.	RBC_548 E	690.	7300.
RBC_441 A	820.	7500.	RBC_572 A	2200.	8800.
RBC_441 B	880.	7500.	RBC_572 B	1900.	8500.
RBC_441 C	1400.	8000.	RBC_572 C	1700.	8400.
RBC_441 D	1400.	8000.	RBC_572 D	1900.	8500.
RBC_441 E	1100.	7800.	RBC_607 A	2900.	9500.
RBC_441 F	1200.	7900.	RBC_607 B	2900.	9500.
RBC_441 G	1300.	7900.	RBC_607 C	3000.	9600.
RBC_441 H	1400.	8000.	RWC_452 A	< 0.1	< 0.1
RBC_441 I	1500.	8200.	TBC_441 A	< 0.1	< 0.1
RBC_471 A	2000.	8600.	TBC_441 B	< 0.1	< 0.1
RBC_471 B	710.	7300.	TBC_441 C	< 0.1	< 0.1
RBC_471 C	1800.	8400.	TBC_441 D	< 0.1	< 0.1
RBC_471 D	2000.	8600.	TBC_456 A	0.2	0.2
RBC_501 A	1000.	7700.	TBC_456 B	< 0.1	< 0.1
RBC_501 B	1800.	8400.	TBC_456 C	< 0.1	< 0.1
RBC_501 C	1800.	8400.	TBC_471 A	< 0.1	< 0.1
RBC_501 D	1500.	8200.	TBC_471 B	< 0.1	< 0.1
RBC_522 A	1800.	8400.	TBC_471 C	< 0.1	< 0.1
RBC_522 B	1400.	8000.	TBC_501 A	2.3	2.3
RBC_522 C	1800.	8400.	TBC_501 B	1.3	1.3
RBC_522 D	1500.	8200.	TBC_501 C	1.5	1.5
RBC_548 A	1300.	8000.			

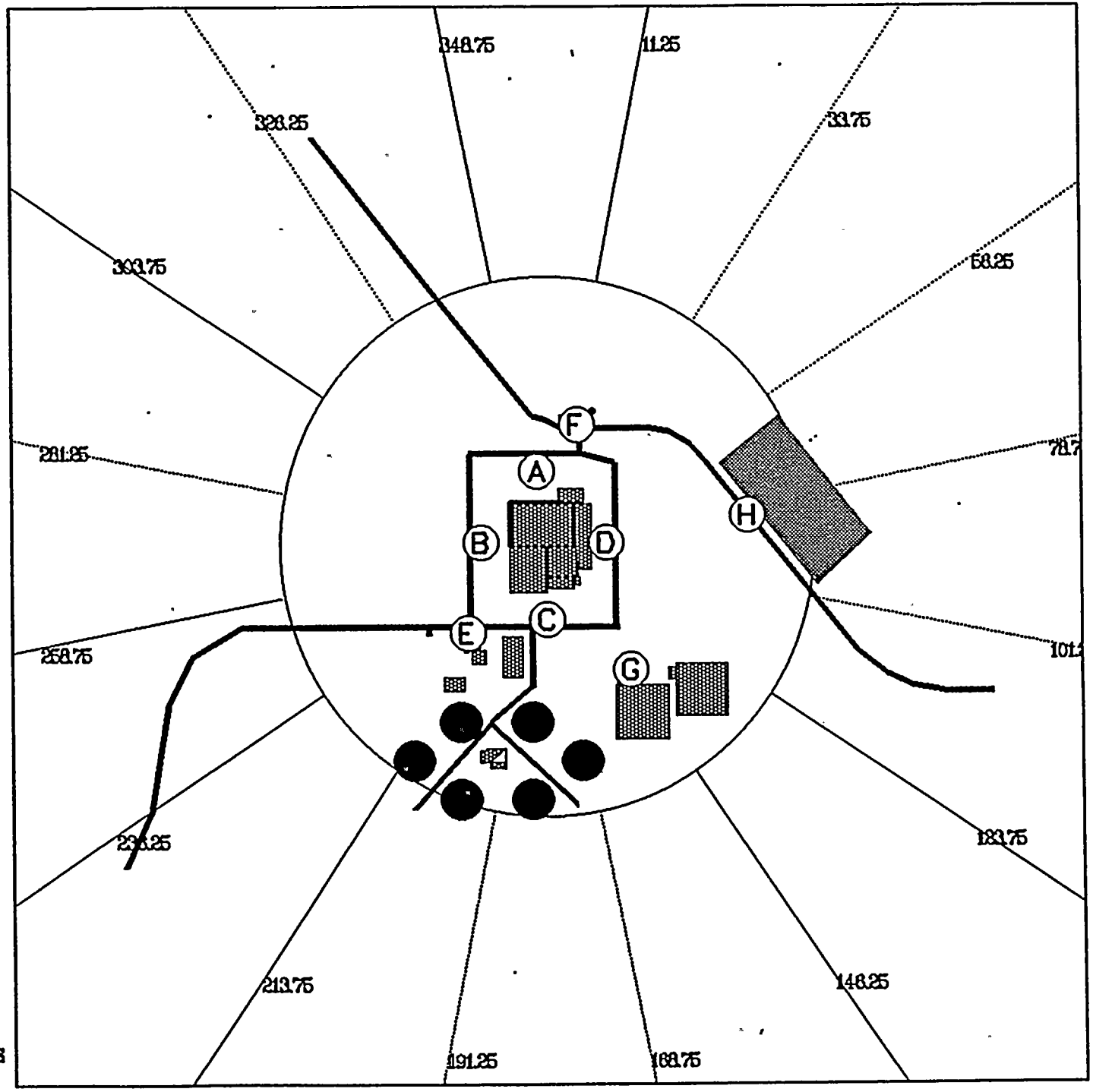
TABLE P10.p

IN-PLANT SURVEY AND SAMPLING DATA (T = 08:00) (11:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)
RBC_422 A	1300.	7400.	RBC_548 B	1500.	7700.
RBC_422 B	1200.	7400.	RBC_548 C	870.	7000.
RBC_422 C	630.	6800.	RBC_548 D	1200.	7400.
RBC_422 D	680.	6900.	RBC_548 E	620.	6800.
RBC_441 A	730.	6900.	RBC_572 A	2000.	8200.
RBC_441 B	790.	7000.	RBC_572 B	1700.	7900.
RBC_441 C	1200.	7400.	RBC_572 C	1600.	7700.
RBC_441 D	1300.	7400.	RBC_572 D	1700.	7900.
RBC_441 E	1000.	7200.	RBC_607 A	2600.	8700.
RBC_441 F	1100.	7300.	RBC_607 B	2600.	8700.
RBC_441 G	1100.	7300.	RBC_607 C	2700.	8900.
RBC_441 H	1200.	7400.	RWC_452 A	< 0.1	< 0.1
RBC_441 I	1400.	7600.	TBC_441 A	< 0.1	< 0.1
RBC_471 A	1800.	8000.	TBC_441 B	< 0.1	< 0.1
RBC_471 B	640.	6800.	TBC_441 C	< 0.1	< 0.1
RBC_471 C	1600.	7700.	TBC_441 D	< 0.1	< 0.1
RBC_471 D	1800.	7900.	TBC_456 A	0.2	0.2
RBC_501 A	910.	7100.	TBC_456 B	< 0.1	< 0.1
RBC_501 B	1600.	7700.	TBC_456 C	< 0.1	< 0.1
RBC_501 C	1600.	7700.	TBC_471 A	< 0.1	< 0.1
RBC_501 D	1400.	7500.	TBC_471 B	< 0.1	< 0.1
RBC_522 A	1600.	7800.	TBC_471 C	< 0.1	< 0.1
RBC_522 B	1300.	7400.	TBC_501 A	2.1	2.1
RBC_522 C	1600.	7800.	TBC_501 B	1.2	1.2
RBC_522 D	1400.	7500.	TBC_501 C	1.4	1.4
RBC_548 A	1200.	7400.			

WNP-2

1/2 Mile Site Plan



Ⓢ Survey Location

Water

Steel/Equip

Buildings

Warehouses

Roads

Grid Lines

Bndry Lines

TABLE P11.a

ONSITE SURVEY AND SAMPLING DATA (T = 00:00) (03:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.b

ONSITE SURVEY AND SAMPLING DATA (T = 02:00) (05:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.d

ONSITE SURVEY AND SAMPLING DATA (T = 03:30) (06:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.e

ONSITE SURVEY AND SAMPLING DATA (T = 04:00) (07:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.f

ONSITE SURVEY AND SAMPLING DATA (T = 04:15) (07:15)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.6	0.6	140.
B	0.9	0.9	140.
C	3.1	3.1	55.
D	3.0	3.0	76.
E	0.7	0.7	40.
F	390.	390.	75.
G	0.7	0.7	10.
H	1.4	1.4	5.3

TABLE P11.g

ONSITE SURVEY AND SAMPLING DATA (T = 04:30) (07:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.8	0.8	50.
B	1.1	1.1	50.
C	3.7	3.7	19.
D	3.5	3.5	27.
E	0.9	0.9	14.
F	460.	460.	26.
G	0.8	0.8	3.6
H	1.7	1.7	1.9

TABLE P11.h

ONSITE SURVEY AND SAMPLING DATA (T = 04:45) (07:45)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.8	0.8	120.
B	1.0	1.0	120.
C	3.0	3.0	44.
D	2.9	2.9	62.
E	0.7	0.7	33.
F	360.	360.	61.
G	0.7	0.7	8.3
H	1.4	1.4	4.3

TABLE P11.i

ONSITE SURVEY AND SAMPLING DATA (T = 05:00) (08:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.7	0.7	86.
B	0.8	0.8	86.
C	2.5	2.5	33.
D	2.5	2.5	46.
E	0.6	0.6	24.
F	300.	300.	45.
G	0.6	0.6	6.2
H	1.2	1.2	3.2

TABLE P11.j

ONSITE SURVEY AND SAMPLING DATA (T = 05:30) (08:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.6	0.6	48.
B	0.7	0.7	48.
C	1.9	1.9	19.
D	1.9	1.9	26.
E	0.5	0.5	14.
F	210.	210.	26.
G	0.4	0.4	3.5
H	0.9	0.9	1.8

TABLE P11.k

ONSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.6	0.6	28.
B	0.6	0.6	28.
C	1.5	1.5	11.
D	1.5	1.5	15.
E	0.4	0.4	7.9
F	160.	160.	15.
G	0.4	0.4	2.0
H	0.7	0.7	1.0

TABLE P11.1

ONSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.4	0.4	38.
B	0.4	0.4	38.
C	1.2	1.2	15.
D	1.2	1.2	20.
E	0.3	0.3	11.
F	130.	130.	20.
G	0.3	0.3	2.7
H	0.6	0.6	1.4

TABLE P11.m

ONSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.2	0.2	24.
B	0.3	0.4	24.
C	1.0	1.0	9.1
D	1.0	1.0	13.
E	0.3	0.3	6.7
F	110.	110.	12.
G	0.2	0.2	1.7
H	0.5	0.5	0.9

TABLE P11.n

ONSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.2	0.2	63.
B	0.3	0.3	63.
C	0.9	0.9	24.
D	0.9	0.9	34.
E	0.3	0.3	18.
F	94.	94.	33.
G	0.2	0.2	4.6
H	0.4	0.4	2.4

TABLE P11.o

ONSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.2	0.2	44.
B	0.3	0.3	44.
C	0.8	0.9	17.
D	0.8	0.8	24.
E	0.2	0.2	12.
F	84.	84.	23.
G	0.2	0.2	3.2
H	0.4	0.4	1.6

TABLE P12.a

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 00:00) (03:00)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	1.97E-15 uCi/cc
Kr-87	3.40E-15 uCi/cc
Kr-88	5.32E-15 uCi/cc
Xe-133	1.48E-14 uCi/cc
Xe-133m	5.00E-16 uCi/cc
Xe-135	4.72E-15 uCi/cc
Xe-138	6.40E-15 uCi/cc
TOTAL GAS SAMPLE	3.73E-14 uCi/cc
I-131	5.86E-16 uCi/cc
I-132	7.69E-16 uCi/cc
I-133	1.35E-15 uCi/cc
I-134	1.01E-15 uCi/cc
I-135	1.27E-15 uCi/cc
TOTAL CHARCOAL SAMPLE	4.99E-15 uCi/cc
Cs-134	1.30E-16 uCi/cc
Cs-136	5.18E-17 uCi/cc
Cs-137	8.39E-17 uCi/cc
Np-239	1.76E-17 uCi/cc
TOTAL FILTER SAMPLE	2.88E-16 uCi/cc

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TABLE P12.a

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 00:00) (03:00)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.4E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: < 0.1 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.3E+7 Hours
Stay Time: 2 MPC hr (in mask):6.6E+8 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):9.9E+9 Hours

TABLE P12.c

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 04:00) (07:00)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	9.62E-13 uCi/cc
Kr-87	1.45E-12 uCi/cc
Kr-88	2.56E-12 uCi/cc
Xe-133	7.63E-12 uCi/cc
Xe-133m	2.65E-13 uCi/cc
Xe-135	1.98E-12 uCi/cc
Xe-138	1.05E-12 uCi/cc
TOTAL GAS SAMPLE	1.60E-11 uCi/cc
I-131	3.19E-14 uCi/cc
I-132	3.59E-14 uCi/cc
I-133	6.23E-14 uCi/cc
I-134	4.05E-14 uCi/cc
I-135	5.22E-14 uCi/cc
TOTAL CHARCOAL SAMPLE	2.23E-13 uCi/cc
Rb-88	4.10E-14 uCi/cc
Cs-134	8.57E-15 uCi/cc
Cs-136	3.42E-15 uCi/cc
Cs-137	5.38E-15 uCi/cc
TOTAL FILTER SAMPLE	5.84E-14 uCi/cc

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TABLE P12.c

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 04:00) (07:00)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.3E+1
For 4" lead shield divide dose rate by:3.7E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: < 0.1 mRem/hr
Net Air Sample Contact Rate: < 0.1 cpm/cf sample

Floor Contamination: < 0.1 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.5E+5 Hours
Stay Time: 2 MPC hr (in mask):7.6E+6 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):3.0E+8 Hours

TABLE P12.d

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 04:30) (07:30)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	8.87E-10 uCi/cc
Kr-87	1.33E-09 uCi/cc
Kr-88	2.37E-09 uCi/cc
Xe-133	7.11E-09 uCi/cc
Xe-133m	2.45E-10 uCi/cc
Xe-135	2.30E-09 uCi/cc
Xe-138	9.28E-10 uCi/cc
TOTAL GAS SAMPLE	1.53E-08 uCi/cc
Br-83	8.71E-11 uCi/cc
I-131	1.02E-09 uCi/cc
I-132	1.20E-09 uCi/cc
I-133	2.00E-09 uCi/cc
I-134	1.33E-09 uCi/cc
I-135	1.68E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	7.40E-09 uCi/cc
Rb-88	6.19E-10 uCi/cc
Cs-134	3.58E-10 uCi/cc
Cs-136	1.25E-10 uCi/cc
Cs-137	2.43E-10 uCi/cc
TOTAL FILTER SAMPLE	1.38E-09 uCi/cc

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TABLE P12.d

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 04:30) (07:30)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.9E+1
For 4" lead shield divide dose rate by:5.5E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 3.1 mRem/hr
Net Air Sample Contact Rate: 50. cpm/cf sample

Floor Contamination: 0.7 cpm/100cm2
Wall and Equipment Contamination: < 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):9.1E+0 Hours
Stay Time: 2 MPC hr (in mask):4.5E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.8E+4 Hours

TABLE P12.e

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 05:00) (08:00)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	3.64E-09 uCi/cc
Kr-87	5.16E-09 uCi/cc
Kr-88	9.60E-09 uCi/cc
Xe-133	2.98E-08 uCi/cc
Xe-133m	1.03E-09 uCi/cc
Xe-135	9.59E-09 uCi/cc
Xe-138	2.52E-09 uCi/cc
TOTAL GAS SAMPLE	6.17E-08 uCi/cc
Br-83	1.44E-10 uCi/cc
I-131	1.77E-09 uCi/cc
I-132	1.98E-09 uCi/cc
I-133	3.44E-09 uCi/cc
I-134	2.05E-09 uCi/cc
I-135	2.86E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	1.23E-08 uCi/cc
Rb-88	1.12E-09 uCi/cc
Cs-134	8.21E-10 uCi/cc
Cs-136	2.86E-10 uCi/cc
Cs-137	5.57E-10 uCi/cc
TOTAL FILTER SAMPLE	2.87E-09 uCi/cc

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TABLE P12.e

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 05:00) (08:00)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.7E+1
For 4" lead shield divide dose rate by:4.8E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 5.3 mRem/hr
Net Air Sample Contact Rate: 86. cpm/cf sample

Floor Contamination: 1.5 cpm/100cm2
Wall and Equipment Contamination: 0.1 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):5.0E+0 Hours
Stay Time: 2 MPC hr (in mask):2.5E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.0E+4 Hours

TABLE P12.f

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 05:30) (08:30)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	3.45E-09 uCi/cc
Kr-87	4.61E-09 uCi/cc
Kr-88	8.98E-09 uCi/cc
Xe-133	2.89E-08 uCi/cc
Xe-133m	9.95E-10 uCi/cc
Xe-135	9.22E-09 uCi/cc
Xe-138	1.57E-09 uCi/cc
TOTAL GAS SAMPLE	5.80E-08 uCi/cc
Br-83	7.63E-11 uCi/cc
I-131	9.77E-10 uCi/cc
I-132	1.05E-09 uCi/cc
I-133	1.89E-09 uCi/cc
I-134	1.00E-09 uCi/cc
I-135	1.56E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	6.60E-09 uCi/cc
Rb-88	6.89E-10 uCi/cc
Cs-134	6.03E-10 uCi/cc
Cs-136	2.10E-10 uCi/cc
Cs-137	4.10E-10 uCi/cc
TOTAL FILTER SAMPLE	1.97E-09 uCi/cc

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TABLE P12.f

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 05:30) (08:30)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.6E+1
For 4" lead shield divide dose rate by:4.4E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 2.9 mRem/hr
Net Air Sample Contact Rate: 48. cpm/cf sample

Floor Contamination: 1.9 cpm/100cm2
Wall and Equipment Contamination: 0.2 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):8.7E+0 Hours
Stay Time: 2 MPC hr (in mask):4.4E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.7E+4 Hours

TABLE P12.g

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 06:00) (09:00)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	3.26E-09 uCi/cc
Kr-87	4.11E-09 uCi/cc
Kr-88	8.38E-09 uCi/cc
Xe-133	2.79E-08 uCi/cc
Xe-133m	9.61E-10 uCi/cc
Xe-135	8.84E-09 uCi/cc
Xe-138	9.80E-10 uCi/cc
TOTAL GAS SAMPLE	5.48E-08 uCi/cc
Br-83	4.06E-11 uCi/cc
I-131	5.42E-10 uCi/cc
I-132	5.56E-10 uCi/cc
I-133	1.05E-09 uCi/cc
I-134	4.95E-10 uCi/cc
I-135	8.52E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	3.55E-09 uCi/cc
Rb-88	4.58E-10 uCi/cc
Cs-134	4.44E-10 uCi/cc
Cs-136	1.54E-10 uCi/cc
Cs-137	3.01E-10 uCi/cc
TOTAL FILTER SAMPLE	1.40E-09 uCi/cc

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TABLE P12.g

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 06:00) (09:00)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.2E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 1.6 mRem/hr
Net Air Sample Contact Rate: 28. cpm/cf sample

Floor Contamination: 2.1 cpm/100cm2
Wall and Equipment Contamination: 0.2 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.5E+1 Hours
Stay Time: 2 MPC hr (in mask):7.3E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.9E+4 Hours

TABLE P12.h

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 06:30) (09:30)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	6.00E-09 uCi/cc
Kr-87	7.13E-09 uCi/cc
Kr-88	1.52E-08 uCi/cc
Xe-133	5.26E-08 uCi/cc
Xe-133m	1.81E-09 uCi/cc
Xe-135	1.65E-08 uCi/cc
Xe-138	1.19E-09 uCi/cc
TOTAL GAS SAMPLE	1.01E-07 uCi/cc
Br-83	4.94E-11 uCi/cc
I-131	6.88E-10 uCi/cc
I-132	6.75E-10 uCi/cc
I-133	1.32E-09 uCi/cc
I-134	5.58E-10 uCi/cc
I-135	1.07E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	4.38E-09 uCi/cc
Rb-88	7.53E-10 uCi/cc
Cs-134	7.42E-10 uCi/cc
Cs-136	2.58E-10 uCi/cc
Cs-137	5.04E-10 uCi/cc
TOTAL FILTER SAMPLE	2.32E-09 uCi/cc

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TABLE P12.h

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 06:30) (09:30)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.5E+1
For 4" lead shield divide dose rate by:4.0E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 2.1 mRem/hr
Net Air Sample Contact Rate: 38. cpm/cf sample

Floor Contamination: 2.2 cpm/100cm2
Wall and Equipment Contamination: 0.2 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.1E+1 Hours
Stay Time: 2 MPC hr (in mask):5.4E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):2.1E+4 Hours

TABLE P12.i

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 07:00) (10:00)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	5.67E-09 uCi/cc
Kr-87	6.36E-09 uCi/cc
Kr-88	1.42E-08 uCi/cc
Xe-133	5.08E-08 uCi/cc
Xe-133m	1.74E-09 uCi/cc
Xe-135	1.58E-08 uCi/cc
TOTAL GAS SAMPLE	9.58E-08 uCi/cc
Br-83	2.69E-11 uCi/cc
I-131	3.92E-10 uCi/cc
I-132	3.68E-10 uCi/cc
I-133	7.49E-10 uCi/cc
I-134	2.82E-10 uCi/cc
I-135	5.97E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	2.42E-09 uCi/cc
Rb-88	5.91E-10 uCi/cc
Cs-134	5.49E-10 uCi/cc
Cs-136	1.91E-10 uCi/cc
Cs-137	3.73E-10 uCi/cc
TOTAL FILTER SAMPLE	1.75E-09 uCi/cc

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TABLE P12.i

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 07:00) (10:00)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 1.2 mRem/hr
Net Air Sample Contact Rate: 24. cpm/cf sample

Floor Contamination: 2.3 cpm/100cm2
Wall and Equipment Contamination: 0.2 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):1.7E+1 Hours
Stay Time: 2 MPC hr (in mask):8.3E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):3.3E+4 Hours

TABLE P12.j

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 07:30) (10:30)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	1.83E-08 uCi/cc
Kr-87	1.93E-08 uCi/cc
Kr-88	4.51E-08 uCi/cc
Xe-133	1.68E-07 uCi/cc
Xe-133m	5.74E-09 uCi/cc
Xe-135	5.15E-08 uCi/cc
TOTAL GAS SAMPLE	3.11E-07 uCi/cc
Br-83	6.18E-11 uCi/cc
I-131	9.38E-10 uCi/cc
I-132	8.42E-10 uCi/cc
I-133	1.79E-09 uCi/cc
I-134	6.01E-10 uCi/cc
I-135	1.41E-09 uCi/cc
TOTAL CHARCOAL SAMPLE	5.66E-09 uCi/cc
Rb-88	2.01E-09 uCi/cc
Cs-134	1.67E-09 uCi/cc
Cs-136	5.81E-10 uCi/cc
Cs-137	1.13E-09 uCi/cc
TOTAL FILTER SAMPLE	5.54E-09 uCi/cc

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TABLE P12.j

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 07:30) (10:30)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.9E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 2.8 mRem/hr
Net Air Sample Contact Rate: 63. cpm/cf sample

Floor Contamination: 2.7 cpm/100cm2
Wall and Equipment Contamination: 0.3 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):6.2E+0 Hours
Stay Time: 2 MPC hr (in mask):3.1E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.2E+4 Hours

TABLE P12.k

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 08:00) (11:00)

The Environment cannot be sampled through the PASS system

Nuclide	Concentration
Kr-85m	1.73E-08 uCi/cc
Kr-87	1.72E-08 uCi/cc
Kr-88	4.21E-08 uCi/cc
Xe-133	1.62E-07 uCi/cc
Xe-133m	5.54E-09 uCi/cc
Xe-135	4.93E-08 uCi/cc
TOTAL GAS SAMPLE	2.96E-07 uCi/cc
Br-83	3.63E-11 uCi/cc
I-131	5.76E-10 uCi/cc
I-132	4.94E-10 uCi/cc
I-133	1.09E-09 uCi/cc
I-134	3.27E-10 uCi/cc
I-135	8.51E-10 uCi/cc
TOTAL CHARCOAL SAMPLE	3.39E-09 uCi/cc
Rb-88	1.76E-09 uCi/cc
Cs-134	1.25E-09 uCi/cc
Cs-136	4.36E-10 uCi/cc
Cs-137	8.51E-10 uCi/cc
TOTAL FILTER SAMPLE	4.39E-09 uCi/cc

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TABLE P12.k

AIRBORNE ACTIVITY (PLANT VICINITY) (T = 08:00) (11:00)
(continued)

The Environment cannot be sampled through the PASS system

Normal Sample (15. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (14. ml) Dose Rate at 1 ft.: < 0.1 mR/hr
PASS Sample (charcoal) Dose Rate at 1 ft.: < 0.1 mR/hr per cf
PASS Sample (filter) Dose Rate at 1 ft.: < 0.1 mR/hr per cf

For 2" lead shield divide dose rate by:2.4E+1
For 4" lead shield divide dose rate by:3.8E+2
Hydrogen Concentration: .0%
Oxygen Concentration: 21.0%

Airborne Beta Dose Rate: < 0.1 mRad/hr
Airborne Thyroid Dose Rate: 1.7 mRem/hr
Net Air Sample Contact Rate: 44. cpm/cf sample

Floor Contamination: 2.8 cpm/100cm2
Wall and Equipment Contamination: 0.3 cpm/100cm2
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Personnel Contamination Rate: < 0.1 cpm/100cm2 per minute
Stay Time: 2 MPC hr (no mask):8.6E+0 Hours
Stay Time: 2 MPC hr (in mask):4.3E+2 Hours
Stay Time: 2 MPC hr (in Air Sup. mask):1.7E+4 Hours

TABLE P13.a

CRITICAL PLANT PARAMETER SUMMARY

For Controller and Observer Use Only

Reactor Level (inch)	36.	36.	36.	36.	36.	36.	-36.	-52.
Reactor Press (psig)	1005.	1005.	1005.	1000.	1005.	1000.	900.	900.
Reactor Power (%)	100.0	100.0	100.0	100.0	100.0	.0	.0	.0
Core Flow (M lb/hr)	1.0E+7	1.0E+7	1.0E+7	1.0E+7	1.0E+7	0.0E+0	0.0E+0	0.0E+0
Steam Flow (M lb/hr)	1.4E+7	1.4E+7	1.4E+7	1.4E+7	1.4E+7	0.0E+0	0.0E+0	0.0E+0
Fdwtr Flow (M lb/hr)	1.4E+7	1.4E+7	1.4E+7	1.4E+7	1.4E+7	0.0E+0	0.0E+0	0.0E+0
Condenser Vac (inHg)	29.	29.	29.	29.	29.	29.	29.	29.
Hotwell Level (inch)	.0	.0	.0	.0	.0	.0	.0	.0
Drywell H2 Conc (%)	.0	.0	.0	.0	.0	.0	.0	.0
Drywell O2 Conc (%)	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8
SGTS Flow (cfm)	1.	4585.	4455.	4455.	4455.	4455.	4455.	4455.
Drywell Press (psig)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Drywell Temp (deg F)	103.	103.	103.	103.	103.	103.	103.	103.
Supp Pool Temp (F)	88.	88.	88.	88.	88.	88.	88.	88.
Supp Pool Level (ft)	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
Main Stm Rad (mR/hr)	1.0E+3	1.0E+3	1.0E+3	1.0E+3	1.0E+3	1.7E+1	1.7E+1	1.7E+1
Contnmnt Rad (R/hr)	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1
Cond Stor Tnk (ft)	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
Wetwell Press (psig)	2.9	5.1	-.2	-1.7	-1.7	-1.7	-1.7	-1.8
T-Time (hr:min)	00:00	01:00	02:00	03:15	03:29	03:30	03:35	03:40
Clock Time (hr:min)	03:00	04:00	05:00	06:15	06:29	06:30	06:35	06:40

Drywell Delta-P	.0	3.1	2.2	1.5	1.4	1.4	1.4	1.4
Drywell Delta-T	0.	0.	0.	0.	0.	0.	0.	0.
Wetwell Delta-T	0.	0.	0.	0.	0.	0.	0.	0.

NOTE:

Drywell Pressure is the pressure calculated by the simulator.
Drywell Delta P is the pressure differential
due to hydrogen generation and any containment leakage.

Drywell Delta P must be provided to operators of
any "live time" plant parameter display screens.
(Tables ---- list the sum of Simulator Drywell Pressure and the
Delta P, and the sum of the Reactor Pressure and the Delta P)

TABLE P13.b

CRITICAL PLANT PARAMETER SUMMARY

For Controller and Observer Use Only

Reactor Level (inch)	-68.	-85.	-95.	-100.	-275.	-300.	-310.	-100.
Reactor Press (psig)	900.	900.	900.	900.	200.	120.	100.	15.
Reactor Power (%)	.0	.0	.0	.0	.0	.0	.0	.0
Core Flow (M lb/hr)	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0
Steam Flow (M lb/hr)	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0
Fdwtr Flow (M lb/hr)	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0	0.0E+0
Condenser Vac (inHg)	29.	29.	29.	29.	29.	29.	29.	29.
Hotwell Level (inch)	.0	.0	.0	.0	.0	.0	.0	.0
Drywell H2 Conc (%)	.0	.0	.0	.0	.0	.0	.0	.0
Drywell O2 Conc (%)	.0	.0	.0	.0	.0	.0	.0	3.8
SGTS Flow (cfm)	4455.	4455.	4455.	4455.	4455.	4455.	4455.	4455.
Drywell Press (psig)	1.0	3.0	2.0	2.0	2.0	2.0	2.0	1.0
Drywell Temp (deg F)	103.	103.	103.	103.	103.	103.	103.	103.
Supp Pool Temp (F)	88.	88.	88.	88.	95.	95.	95.	95.
Supp Pool Level (ft)	31.0	31.0	31.0	31.0	32.0	32.0	32.0	32.0
Main Stm Rad (mR/hr)	1.7E+1	1.7E+1	1.7E+1	1.7E+1	1.7E+1	1.8E+1	1.9E+1	1.9E
Contnmnt Rad (R/hr)	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0
Cond Stor Tnk (ft)	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.
Wetwell Press (psig)	-1.8	22.5	10.2	6.3	8.4	6.5	4.0	3.1
T-Time (hr:min)	03:45	03:50	03:55	04:00	04:05	04:10	04:25	04:30
Clock Time (hr:min)	06:45	06:50	06:55	07:00	07:05	07:10	07:25	07:30

Drywell Delta-P	1.4	4.5	4.6	4.5	4.4	4.4	4.3	4.2
Drywell Delta-T	0.	0.	0.	0.	0.	0.	0.	0.
Wetwell Delta-T	0.	0.	0.	0.	0.	0.	0.	0.

NOTE:

Drywell Pressure is the pressure calculated by the simulator. Drywell Delta P is the pressure differential due to hydrogen generation and any containment leakage.

Drywell Delta P must be provided to operators of any "live time" plant parameter display screens. (Tables ---- list the sum of Simulator Drywell Pressure and the Delta P, and the sum of the Reactor Pressure and the Delta P)

TABLE P13.c

CRITICAL PLANT PARAMETER SUMMARY

For Controller and Observer Use Only

Reactor Level (inch)	36.	36.	36.
Reactor Press (psig)	10.	5.	0.
Reactor Power (%)	.0	.0	.0
Core Flow (M lb/hr)	0.0E+0	0.0E+0	0.0E+0
Steam Flow (M lb/hr)	0.0E+0	0.0E+0	0.0E+0
Fdwtr Flow (M lb/hr)	0.0E+0	0.0E+0	0.0E+0
Condenser Vac (inHg)	29.	29.	29.
Hotwell Level (inch)	.0	.0	.0
Drywell H2 Conc (%)	.0	.0	.0
Drywell O2 Conc (%)	3.8	3.8	3.8
SGTS Flow (cfm)	4455.	4455.	4455.
Drywell Press (psig)	1.0	1.0	1.0
Drywell Temp (deg F)	103.	103.	103.
Supp Pool Temp (F)	95.	95.	95.
Supp Pool Level (ft)	32.0	32.0	32.0
Main Stm Rad (mR/hr)	1.9E+1	1.7E+1	1.7E+1
Contnmnt Rad (R/hr)	1.0E+1	1.0E+1	1.0E+1
Cond Stor Tnk (ft)	26.0	26.0	26.0
Wetwell Press (psig)	2.0	-1.5	-1.6
T-Time (hr:min)	04:35	07:30	08:00
Clock Time (hr:min)	07:35	10:30	11:00
Drywell Delta-P	4.2	2.1	2.0
Drywell Delta-T	0.	0.	0.
Wetwell Delta-T	0.	0.	0.

NOTE:

Drywell Pressure is the pressure calculated by the simulator. Drywell Delta P is the pressure differential due to hydrogen generation and any containment leakage.

Drywell Delta P must be provided to operators of any "live time" plant parameter display screens. (Tables ---- list the sum of Simulator Drywell Pressure and the Delta P, and the sum of the Reactor Pressure and the Delta P)

TABLE P14.a

PUMP AND FAN STATUS SUMMARY (T = 00:00) (03:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	OFF
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	OFF
Resid Ht Removal A	ON	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	ON
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	ON
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	ON
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	ON
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	ON
RX Cool Inject Steam	ON	RBV Supply A CFM	ON
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	ON
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	ON
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	ON
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	ON
		ADS Actuation 1	OFF
		ADS Actuation 2	OFF
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	ON
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	ON

TABLE P14.b

PUMP AND FAN STATUS SUMMARY (T = 01:00) (04:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	OFF
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	OFF
Resid Ht Removal A	ON	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	ON
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	ON
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	ON
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	ON
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	ON
RX Cool Inject Steam	ON	RBV Supply A CFM	ON
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	ON
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	ON
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	ON
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	ON
		ADS Actuation 1	OFF
		ADS Actuation 2	OFF
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	ON
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	ON

TABLE P14.c

PUMP AND FAN STATUS SUMMARY (T = 01:10) (04:10)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	ON	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	ON	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	OFF
		ADS Actuation 2	OFF
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.d

PUMP AND FAN STATUS SUMMARY (T = 02:00) (05:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	ON	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	ON	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	OFF
		ADS Actuation 2	OFF
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.e

PUMP AND FAN STATUS SUMMARY (T = 03:00) (06:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	ON	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	ON	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	OFF
		ADS Actuation 2	OFF
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.f

PUMP AND FAN STATUS SUMMARY (T = 03:30) (06:30)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	ON	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	OFF
		ADS Actuation 2	OFF
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.g

PUMP AND FAN STATUS SUMMARY (T = 04:00) (07:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	OFF	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	ON
		ADS Actuation 2	ON
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.h

PUMP AND FAN STATUS SUMMARY (T = 05:00) (08:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	OFF	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	ON
		ADS Actuation 2	ON
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.i

PUMP AND FAN STATUS SUMMARY (T = 05:30) (08:30)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	OFF	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	ON
		ADS Actuation 2	ON
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.j

PUMP AND FAN STATUS SUMMARY (T = 06:00) (09:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	OFF	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	ON
		ADS Actuation 2	ON
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.k

PUMP AND FAN STATUS SUMMARY (T = 07:00) (10:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	OFF	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	ON
		ADS Actuation 2	ON
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE P14.1

PUMP AND FAN STATUS SUMMARY (T = 08:00) (11:00)

PUMP STATUS		FAN STATUS	
Lo Press Core Spray	OFF	Standby Gas Treat A	ON
Hi Press Core Spray	OFF	Standby Gas Treat B	OFF
Suppres Pool Cleanup	OFF	Standby Gas Treat A	ON
Resid Ht Removal A	OFF	Standby Gas Treat B	OFF
Resid Ht Removal B	OFF	18" to SGTA	OFF
Resid Ht Removal C	OFF	18" to SGTB	OFF
Drywell Spray A	OFF	30" to RBV Exhaust	OFF
Drywell Spray B	OFF	RBV Exhaust A CFM	OFF
Wetwell Spray A	OFF	RBV Exhaust B CFM	OFF
Wetwell Spray B	OFF	Turb Bld Exst 1A CFM	OFF
Low Pres Coolant A	OFF	Turb Bld Exst 1B CFM	OFF
Low Pres Coolant B	OFF	Turb Bld Exst 1C CFM	OFF
Low Pres Coolant C	OFF	Turb Bld Exst 1D CFM	OFF
RX Cool Inject Steam	OFF	RBV Supply A CFM	OFF
RX Cool Inject Water	OFF	RBV Supply B CFM	OFF
Control Rod Drive	ON	Turb Bld Sply 1A CFM	OFF
Reactor Water Clean	OFF	Turb Bld Sply 1B CFM	OFF
Post Accid Samp Liq	OFF	Turb Bld Sply 2A CFM	OFF
Post Accid Samp GAS	OFF	Turb Bld Sply 2B CFM	OFF
		ADS Actuation 1	ON
		ADS Actuation 2	ON
		ADS Actuation 3	OFF
		RADW Bld Sply 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF
		RADW Bld Exst 1A CFM	OFF
		RADW Bld Sply 1B CFM	OFF

TABLE PE1 a

EMERGENCY RESPONSE FACILITY DATA (T = 00:00) (03:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	< 0.1	< 0.1	< 0.1
OSC - 2	< 0.1	< 0.1	< 0.1
TSC	< 0.1	< 0.1	< 0.1
EOF	< 0.1	< 0.1	< 0.1
PASS Sample St.	< 0.1	< 0.1	< 0.1

TABLE PE1 b

EMERGENCY RESPONSE FACILITY DATA (T = 03:30) (06:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	< 0.1	< 0.1	< 0.1
OSC - 2	< 0.1	< 0.1	< 0.1
TSC	< 0.1	< 0.1	< 0.1
EOF	< 0.1	< 0.1	< 0.1
PASS Sample St.	< 0.1	< 0.1	< 0.1

TABLE PE1 c

EMERGENCY RESPONSE FACILITY DATA (T = 04:00) (07:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	< 0.1	< 0.1	< 0.1
OSC - 2	< 0.1	< 0.1	< 0.1
TSC	< 0.1	< 0.1	< 0.1
EOF	< 0.1	< 0.1	< 0.1
PASS Sample St.	< 0.1	< 0.1	< 0.1

TABLE PE1 d

EMERGENCY RESPONSE FACILITY DATA (T = 04:15) (07:15)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	0.1
OSC - 1	0.6	0.6	140.
OSC - 2	0.6	0.6	140.
TSC	< 0.1	< 0.1	1.2
EOF	< 0.1	< 0.1	1.2
PASS Sample St.	< 0.1	< 0.1	140.

TABLE PE1 e

EMERGENCY RESPONSE FACILITY DATA (T = 04:30) (07:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.9	0.9	50.
OSC - 2	0.9	0.9	50.
TSC	< 0.1	< 0.1	0.4
EOF	< 0.1	< 0.1	0.4
PASS Sample St.	< 0.1	< 0.1	50.

TABLE PE1 f

EMERGENCY RESPONSE FACILITY DATA (T = 05:00) (08:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.8	0.8	86.
OSC - 2	0.8	0.8	86.
TSC	< 0.1	< 0.1	0.7
EOF	< 0.1	< 0.1	0.7
PASS Sample St.	< 0.1	< 0.1	86.

TABLE PE1 g

EMERGENCY RESPONSE FACILITY DATA (T = 06:00) (09:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.6	0.6	28.
OSC - 2	0.6	0.7	28.
TSC	< 0.1	< 0.1	0.2
EOF	< 0.1	< 0.1	0.2
PASS Sample St.	< 0.1	< 0.1	28.

TABLE PE1 h

EMERGENCY RESPONSE FACILITY DATA (T = 06:30) (09:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.4	0.4	38.
OSC - 2	0.4	0.4	38.
TSC	< 0.1	< 0.1	0.3
EOF	< 0.1	< 0.1	0.3
PASS Sample St.	< 0.1	< 0.1	38.

TABLE PE1 i

EMERGENCY RESPONSE FACILITY DATA (T = 07:00) (10:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.2	0.2	24.
OSC - 2	0.2	0.2	24.
TSC	< 0.1	< 0.1	0.1
EOF	< 0.1	< 0.1	0.1
PASS Sample St.	< 0.1	< 0.1	24.

TABLE PE1 j

EMERGENCY RESPONSE FACILITY DATA (T = 07:30) (10:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.2	0.2	63.
OSC - 2	0.2	0.2	63.
TSC	< 0.1	< 0.1	0.4
EOF	< 0.1	< 0.1	0.4
PASS Sample St.	< 0.1	< 0.1	63.

TABLE PE1 k

EMERGENCY RESPONSE FACILITY DATA (T = 08:00) (11:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.2	0.2	44.
OSC - 2	0.2	0.2	44.
TSC	< 0.1	< 0.1	0.2
EOF	< 0.1	< 0.1	0.2
PASS Sample St.	< 0.1	< 0.1	44.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.			PAGE
EXERCISE 93			1 OF 1
MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:	
1	0330	0000	

CONTROLLER LOCATION: CONTROL ROOM (SIMULATOR) & EOFCC

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: ALL PERSONNEL

MESSAGE FROM: CONTROL ROOM (SIMULATOR) & LEAD EOFCC CONTROLLERS

MESSAGE:

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

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

EXERCISE 93 IS NOW IN PROGRESS. PERSONNEL NOT IDENTIFIED AS PARTICIPANTS IN THE EXERCISE SHOULD CONTINUE WITH THEIR NORMAL WORK SCHEDULE.

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

REFERENCE GENERAL DATA SHEETS:

FOR CONTROLLER USE ONLY

REPEAT THIS PA ANNOUNCEMENT APPROXIMATELY EVERY HOUR.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.	PAGE
EXERCISE 93	1 of 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
8	0900	

CONTROLLER LOCATION: SSDC

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: RECOVERY MANAGER

MESSAGE FROM: LEAD CONTROLLER SSDC

MESSAGE:

"THIS IS A DEFAULT MESSAGE"

Coordinate with the other Emergency Centers to conduct shift turnover at or near 0900.

"THIS IS A DEFAULT MESSAGE"

REFERENCE GENERAL DATA SHEETS:_

FOR CONTROLLER USE ONLY

This message may need to be discussed with the Recovery Manager early in the drill so that all centers can plan on shift turnover at around the same time.

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

CONTROLLER INFORMATION
SCENARIO MESSAGES

DRILL NO.	PAGE
EXERCISE 93	1 OF 1

MESSAGE NO.	REAL TIME OF:	DRILL TIME OF:
9	1000	0000

CONTROLLER LOCATION: CONTROL ROOM (SIMULATOR) & EOFCC

CONTROLLER NAME	ORGANIZATION

MESSAGE FOR: ALL PERSONNEL

MESSAGE FROM: CONTROL ROOM (SIMULATOR) & LEAD EOFCC CONTROLLERS

MESSAGE:

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

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

EXERCISE 93 IS NOW TERMINATED. PERSONNEL IDENTIFIED AS PARTICIPANTS IN THE DRILL SHOULD RETURN TO THEIR EMERGENCY CENTER TO CONDUCT POST EXERCISE CRITIQUE.

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

REFERENCE GENERAL DATA SHEETS:_

FOR CONTROLLER USE ONLY

WASHINGTON PUBLIC POWER
SUPPLY SYSTEM
CONTROLLER INFORMATION
GENERAL DATA SHEET

DRILL NO. Exercise 93		PAGE
SHEET NO.	RESPONSIBLE CONTROLLER (LOCATION) Control Room (Simulator), MUDAC & TSC	
REAL TIME OF: 03:00 TO: 12:00	DRILL TIME OF: 00:00 TO: 09:00	
ASSOCIATED WITH MESSAGES	INFORMATION APPLIES TO TABLE OF CONTENTS	

TAB	HEADING
P1	REACTOR WATER ACTIVITY CONCENTRATION
P2	DRYWELL GAS ACTIVITY CONCENTRATION
P3	WETWELL GAS ACTIVITY CONCENTRATION
P4	WETWELL WATER ACTIVITY CONCENTRATION
P5	RX BLDG & REFUEL FLOOR ACT. CONC.
P6	RX BLDG ELEVATED RELEASE POINT CONC.
P7	RADWASTE BLDG/RADWASTE BLDG EXHAUST
P8	TURBINE BLDG/TURBINE BLDG EXHAUST
P9	RADIATION MONITORING SYSTEM DATA
P10	IN-PLANT SURVEY AND SAMPLING DATA
P11	ONSITE SURVEY AND SAMPLING DATA
P12	AIRBORNE ACTIVITY (PLANT VICINITY)
P13	CRITICAL PLANT PARAMETER SUMMARY
P14	PUMP AND FAN STATUS SUMMARY
E1	METEOROLOGICAL DATA SUMMARY
E2	OFFSITE SURVEY AND SAMPLING DATA
E3	ENVIRONMENTAL SAMPLING DATA
PE1	EMERGENCY RESPONSE FACILITY DATA

TABLE PE1 a

EMERGENCY RESPONSE FACILITY DATA (T = 00:00) (03:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	< 0.1	< 0.1	< 0.1
OSC - 2	< 0.1	< 0.1	< 0.1
TSC	< 0.1	< 0.1	< 0.1
EOF	< 0.1	< 0.1	< 0.1
PASS Sample St.	< 0.1	< 0.1	< 0.1

TABLE PE1 b

EMERGENCY RESPONSE FACILITY DATA (T = 03:30) (06:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	< 0.1	< 0.1	< 0.1
OSC - 2	< 0.1	< 0.1	< 0.1
TSC	< 0.1	< 0.1	< 0.1
EOF	< 0.1	< 0.1	< 0.1
PASS Sample St.	< 0.1	< 0.1	< 0.1

TABLE PE1 c

EMERGENCY RESPONSE FACILITY DATA (T = 04:00) (07:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	< 0.1	< 0.1	< 0.1
OSC - 2	< 0.1	< 0.1	< 0.1
TSC	< 0.1	< 0.1	< 0.1
EOF	< 0.1	< 0.1	< 0.1
PASS Sample St.	< 0.1	< 0.1	< 0.1

TABLE PE1 d

EMERGENCY RESPONSE FACILITY DATA (T = 04:15) (07:15)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	0.1
OSC - 1	0.6	0.6	140.
OSC - 2	0.6	0.6	140.
TSC	< 0.1	< 0.1	1.2
EOF	< 0.1	< 0.1	1.2
PASS Sample St.	< 0.1	< 0.1	140.

TABLE PE1 e

EMERGENCY RESPONSE FACILITY DATA (T = 04:30) (07:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.9	0.9	50.
OSC - 2	0.9	0.9	50.
TSC	< 0.1	< 0.1	0.4
EOF	< 0.1	< 0.1	0.4
PASS Sample St.	< 0.1	< 0.1	50.

TABLE PE1 f

EMERGENCY RESPONSE FACILITY DATA (T = 05:00) (08:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.8	0.8	86.
OSC - 2	0.8	0.8	86.
TSC	< 0.1	< 0.1	0.7
EOF	< 0.1	< 0.1	0.7
PASS Sample St.	< 0.1	< 0.1	86.

TABLE PE1 g

EMERGENCY RESPONSE FACILITY DATA (T = 06:00) (09:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.6	0.6	28.
OSC - 2	0.6	0.7	28.
TSC	< 0.1	< 0.1	0.2
EOF	< 0.1	< 0.1	0.2
PASS Sample St.	< 0.1	< 0.1	28.

TABLE PE1 h

EMERGENCY RESPONSE FACILITY DATA (T = 06:30) (09:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.4	0.4	38.
OSC - 2	0.4	0.4	38.
TSC	< 0.1	< 0.1	0.3
EOF	< 0.1	< 0.1	0.3
PASS Sample St.	< 0.1	< 0.1	38.

TABLE PE1 i

EMERGENCY RESPONSE FACILITY DATA (T = 07:00) (10:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.2	0.2	24.
OSC - 2	0.2	0.2	24.
TSC	< 0.1	< 0.1	0.1
EOF	< 0.1	< 0.1	0.1
PASS Sample St.	< 0.1	< 0.1	24.

TABLE PE1 j

EMERGENCY RESPONSE FACILITY DATA (T = 07:30) (10:30)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.2	0.2	63.
OSC -.2	0.2	0.2	63.
TSC	< 0.1	< 0.1	0.4
EOF	< 0.1	< 0.1	0.4
PASS Sample St.	< 0.1	< 0.1	63.

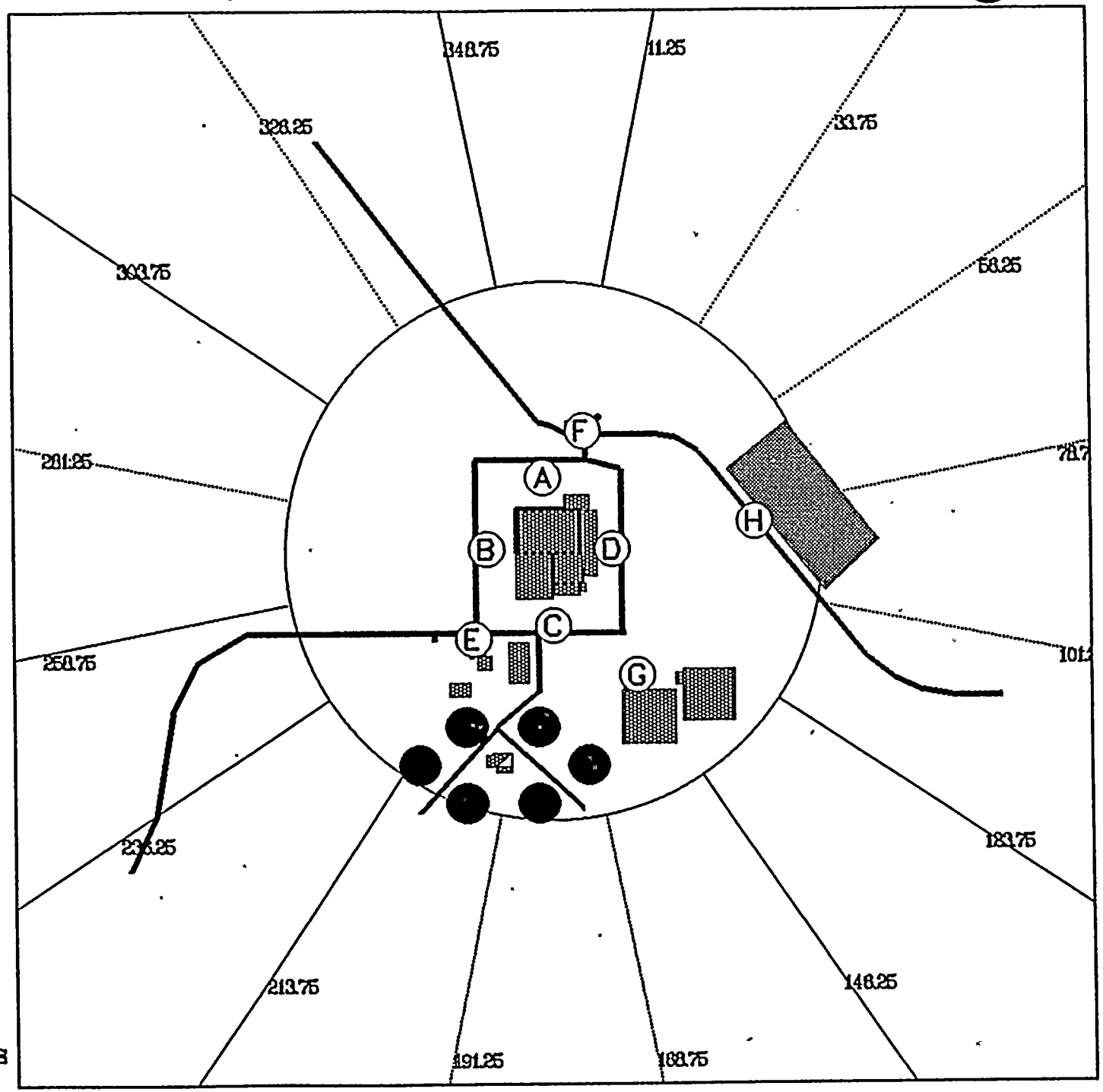
TABLE PE1 k

EMERGENCY RESPONSE FACILITY DATA (T = 08:00) (11:00)

Emergency Center	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/min)
MCR	< 0.1	< 0.1	< 0.1
OSC - 1	0.2	0.2	44.
OSC - 2	0.2	0.2	44.
TSC	< 0.1	< 0.1	0.2
EOF	< 0.1	< 0.1	0.2
PASS Sample St.	< 0.1	< 0.1	44.

WNP-2

1/2 Mile Site Plan



Ⓢ Survey Location

Water

Steel/Equip

Buildings

Warehouses

Roads

Grid Lines

Bndry Lines

TABLE P11.o

ONSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.2	0.2	44.
B	0.3	0.3	44.
C	0.8	0.9	17.
D	0.8	0.8	24.
E	0.2	0.2	12.
F	84.	84.	23.
G	0.2	0.2	3.2
H	0.4	0.4	1.6

TABLE P11.n

ONSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.2	0.2	63.
B	0.3	0.3	63.
C	0.9	0.9	24.
D	0.9	0.9	34.
E	0.3	0.3	18.
F	94.	94.	33.
G	0.2	0.2	4.6
H	0.4	0.4	2.4

TABLE P11.m

ONSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.2	0.2	24.
B	0.3	0.4	24.
C	1.0	1.0	9.1
D	1.0	1.0	13.
E	0.3	0.3	6.7
F	110.	110.	12.
G	0.2	0.2	1.7
H	0.5	0.5	0.9

TABLE P11.1

ONSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.4	0.4	38.
B	0.4	0.4	38.
C	1.2	1.2	15.
D	1.2	1.2	20.
E	0.3	0.3	11.
F	130.	130.	20.
G	0.3	0.3	2.7
H	0.6	0.6	1.4

TABLE P11.k

ONSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.6	0.6	28.
B	0.6	0.6	28.
C	1.5	1.5	11.
D	1.5	1.5	15.
E	0.4	0.4	7.9
F	160.	160.	15.
G	0.4	0.4	2.0
H	0.7	0.7	1.0

TABLE P11.j

ONSITE SURVEY AND SAMPLING DATA (T = 05:30) (08:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.6	0.6	48.
B	0.7	0.7	48.
C	1.9	1.9	19.
D	1.9	1.9	26.
E	0.5	0.5	14.
F	210.	210.	26.
G	0.4	0.4	3.5
H	0.9	0.9	1.8

TABLE P11.i

ONSITE SURVEY AND SAMPLING DATA (T = 05:00) (08:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.7	0.7	86.
B	0.8	0.8	86.
C	2.5	2.5	33.
D	2.5	2.5	46.
E	0.6	0.6	24.
F	300.	300.	45.
G	0.6	0.6	6.2
H	1.2	1.2	3.2

TABLE P11.h

ONSITE SURVEY AND SAMPLING DATA (T = 04:45) (07:45)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.8	0.8	120.
B	1.0	1.0	120.
C	3.0	3.0	44.
D	2.9	2.9	62.
E	0.7	0.7	33.
F	360.	360.	61.
G	0.7	0.7	8.3
H	1.4	1.4	4.3

TABLE P11.g

ONSITE SURVEY AND SAMPLING DATA (T = 04:30) (07:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.8	0.8	50.
B	1.1	1.1	50.
C	3.7	3.7	19.
D	3.5	3.5	27.
E	0.9	0.9	14.
F	460.	460.	26.
G	0.8	0.8	3.6
H	1.7	1.7	1.9

TABLE P11.f

ONSITE SURVEY AND SAMPLING DATA (T = 04:15) (07:15)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	0.6	0.6	140.
B	0.9	0.9	140.
C	3.1	3.1	55.
D	3.0	3.0	76.
E	0.7	0.7	40.
F	390.	390.	75.
G	0.7	0.7	10.
H	1.4	1.4	5.3

TABLE P11.e

ONSITE SURVEY AND SAMPLING DATA (T = 04:00) (07:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.d

ONSITE SURVEY AND SAMPLING DATA (T = 03:30) (06:30)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.b

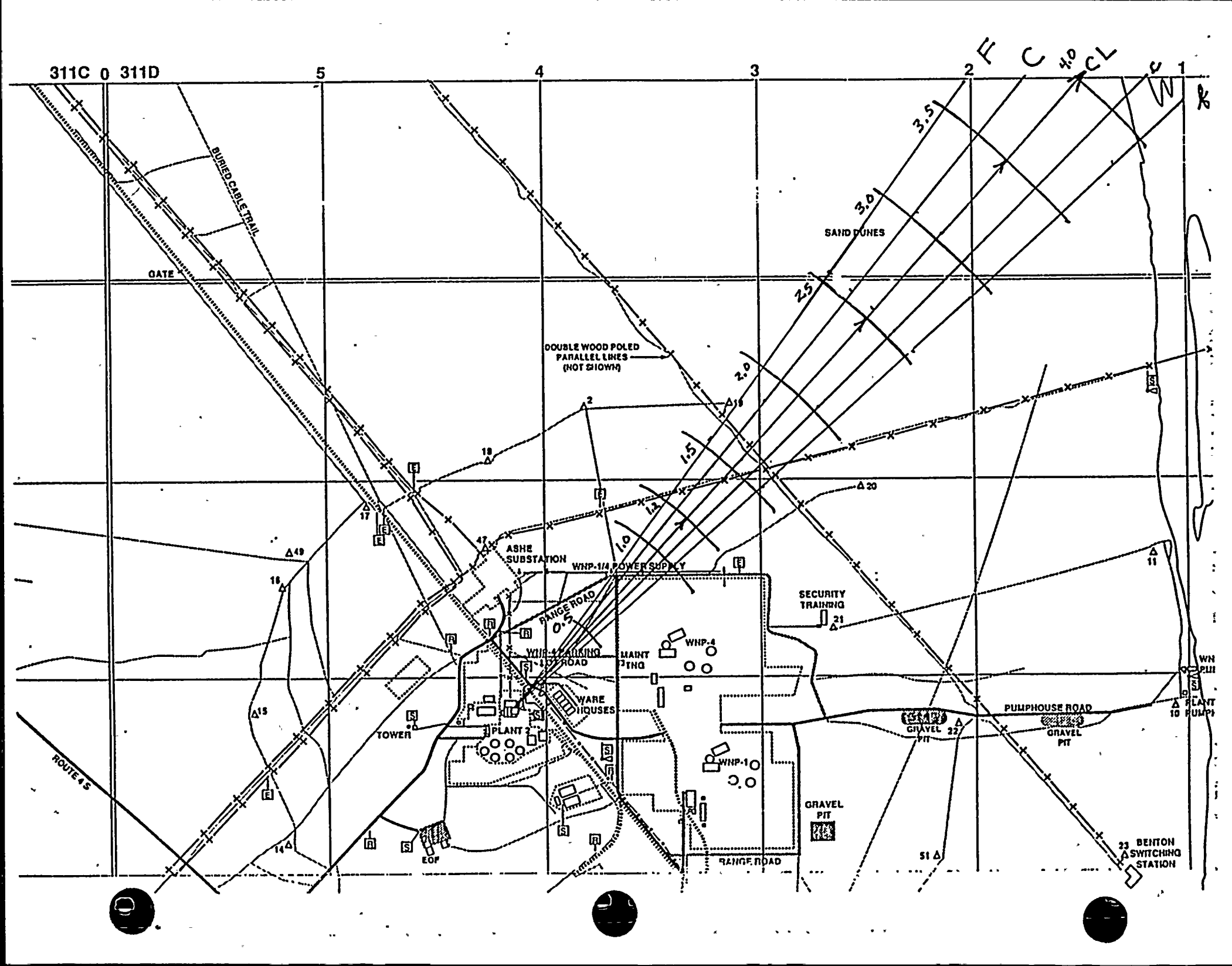
ONSITE SURVEY AND SAMPLING DATA (T = 02:00) (05:00)

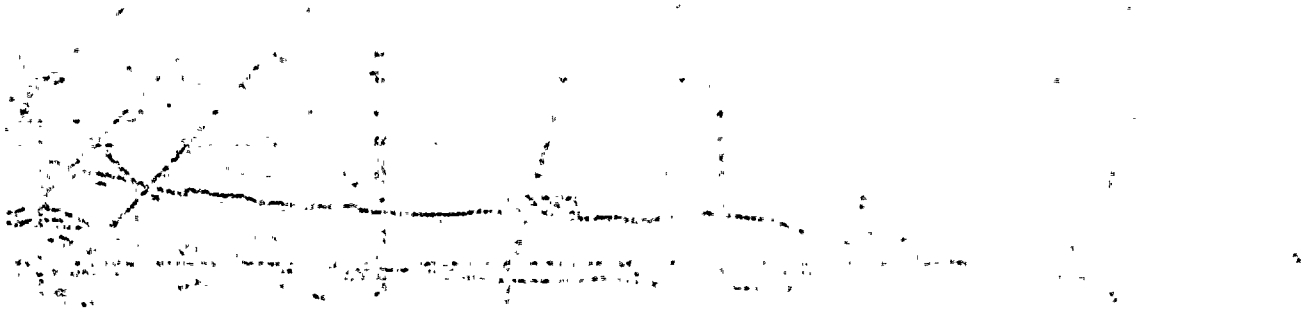
LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1

TABLE P11.a

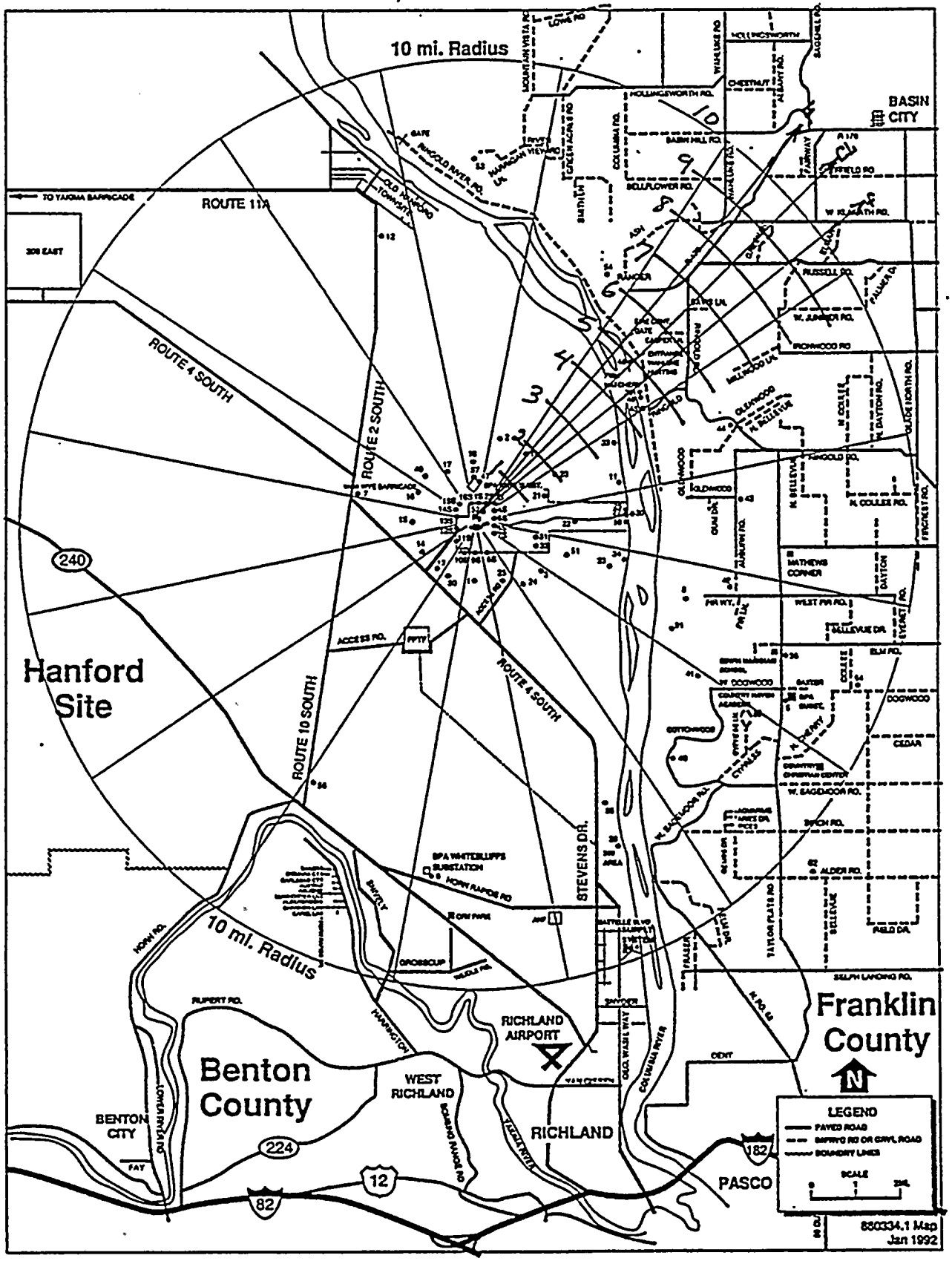
ONSITE SURVEY AND SAMPLING DATA (T = 00:00) (03:00)

LOCATION	CLOSED WINDOW (mR/hr)	OPEN WINDOW (mR/hr)	AIR SAMPLE COUNT RATE (cpm/cf)
A	< 0.1	< 0.1	< 0.1
B	< 0.1	< 0.1	< 0.1
C	< 0.1	< 0.1	< 0.1
D	< 0.1	< 0.1	< 0.1
E	< 0.1	< 0.1	< 0.1
F	< 0.1	< 0.1	< 0.1
G	< 0.1	< 0.1	< 0.1
H	< 0.1	< 0.1	< 0.1


311C 0 311D
5
4
3
2
1
F
C
4.0
CL
3.5
3.0
2.5
2.0
1.5
1.2
1.0
0.5
BURIED CABLE TRAIL
GATE
SAND DUNES
DOUBLE WOOD POLED PARALLEL LINES (NOT SHOWN)
ASHE SUBSTATION
WNP-1/4 POWER SUPPLY
RANGE ROAD
SECURITY TRAINING
WHP-4 TRAINING ROAD
MAINT BLDG
WHP-4
WARE HOUSES
PLANT 2
TOWER
WHP-1
GRAVEL PIT
PUMPHOUSE ROAD
GRAVEL PIT
GRAVEL PIT
ROUTE 4 S
EOF
RANGE ROAD
BENTON SWITCHING STATION
PLANT PUMPS
WN PUM



SITE MAP, EPZ 10-MILE RADIUS



Attachment 5.2

TABLE E2. a

OFFSITE SURVEY AND SAMPLING DATA (T = 00:00) (03:00)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
ALL	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class F

Primary Release Pt: PS Flow: 3.9E+1 m3/sec
Release Concentration-GIP (uCi/cc): 2.7E-09 3.0E-10 1.5E-11
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: < 0.1 mRem/hr
Thyroid Dose Projection: < 0.1 mRem/hr
at a distance of: 3.60 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: < 0.1 mRem/hr
at a distance of: .25 miles downwind

Maximum Thyroid Dose Commitment: < 0.1 mRem/hr
at a distance of: .25 miles downwind

TABLE E2. c

OFFSITE SURVEY AND SAMPLING DATA (T = 03:30) (06:30)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	filter-absorb CPM	15-min RAD DATA: change in SRD mR	contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
ALL	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class F

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.9E-07 1.0E-12 1.6E-11
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: < 0.1 mRem/hr
Thyroid Dose Projection: < 0.1 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: < 0.1 mRem/hr
at a distance of: 2.49 miles downwind

Maximum Thyroid Dose Commitment: < 0.1 mRem/hr
at a distance of: 2.73 miles downwind

TABLE E2. d

OFFSITE SURVEY AND SAMPLING DATA (T = 03:45) (06:45)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
ALL	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class F

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 7.1E-06 3.0E-10 4.2E-09
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: < 0.1 mRem/hr
Thyroid Dose Projection: < 0.1 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: < 0.1 mRem/hr
at a distance of: 1.20 miles downwind

Maximum Thyroid Dose Commitment: < 0.1 mRem/hr
at a distance of: 2.98 miles downwind

TABLE E2. e

OFFSITE SURVEY AND SAMPLING DATA (T = 04:00) (07:00)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
.5A	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	6.7E-14	100	0	0
.5CL	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	6.7E-14	100	0	0
.5a	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	6.7E-14	100	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.4E-05 4.4E-10 4.3E-09
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: < 0.1 mRem/hr
Thyroid Dose Projection: < 0.1 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: < 0.1 mRem/hr
at a distance of: 1.18 miles downwind

Maximum Thyroid Dose Commitment: < 0.1 mRem/hr
at a distance of: 3.23 miles downwind

TABLE E2. f

OFFSITE SURVEY AND SAMPLING DATA (T = 04:15) (07:15)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	filter-absorb CPM	15-min RAD DATA: change in SRD mR	contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
.5F	1.3	1.3	2.2	2.2	62.	63.	0.3	< 0.1	1.7E-10	100	0	0
.5E	2.8	2.8	4.6	4.6	64.	66.	0.7	< 0.1	3.5E-10	100	0	0
.5D	5.0	5.0	8.3	8.3	67.	70.	1.3	< 0.1	6.2E-10	100	0	0
.5C	7.1	7.1	12.	12.	69.	74.	1.8	< 0.1	8.8E-10	100	0	0
.5B	7.4	7.4	12.	12.	70.	75.	1.8	< 0.1	9.2E-10	100	0	0
.5A	7.5	7.5	13.	13.	70.	75.	1.9	< 0.1	9.4E-10	100	0	0
.5CL	7.6	7.6	13.	13.	70.	75.	1.9	< 0.1	9.4E-10	100	0	0
.5a	7.5	7.5	13.	13.	70.	75.	1.9	< 0.1	9.4E-10	100	0	0
.5b	7.4	7.4	12.	12.	70.	75.	1.8	< 0.1	9.2E-10	100	0	0
.5c	7.1	7.1	12.	12.	69.	74.	1.8	< 0.1	8.8E-10	100	0	0
.5d	5.0	5.0	8.3	8.3	67.	70.	1.3	< 0.1	6.2E-10	100	0	0
.5e	2.8	2.8	4.6	4.6	64.	66.	0.7	< 0.1	3.5E-10	100	0	0
.5f	1.3	1.3	2.2	2.2	62.	63.	0.3	< 0.1	1.7E-10	100	0	0
1F	0.4	0.4	0.7	0.7	61.	61.	0.1	< 0.1	5.0E-11	100	0	0
1E	0.9	0.9	1.5	1.5	61.	62.	0.2	< 0.1	1.1E-10	100	0	0
1D	1.9	1.9	3.1	3.1	62.	64.	0.5	< 0.1	2.4E-10	100	0	0
1C	3.2	3.2	5.3	5.3	64.	67.	0.8	< 0.1	4.0E-10	100	0	0
1B	3.5	3.5	5.8	5.8	65.	68.	0.9	< 0.1	4.3E-10	100	0	0
1A	3.7	3.7	6.1	6.1	65.	68.	0.9	< 0.1	4.6E-10	100	0	0
1a	3.7	3.7	6.1	6.1	65.	68.	0.9	< 0.1	4.6E-10	100	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

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TABLE E2. f

OFFSITE SURVEY AND SAMPLING DATA (T = 04:15) (07:15)
(continued)

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 4.5E-02 1.9E-05 9.1E-06
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 1.8 mRem/hr
Thyroid Dose Projection: 0.7 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 1.9 mRem/hr
at a distance of: 1.20 miles downwind

Maximum Thyroid Dose Commitment: 0.7 mRem/hr
at a distance of: 1.20 miles downwind

TABLE E2. g

OFFSITE SURVEY AND SAMPLING DATA (T = 04:30) (07:30)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
.5F	4.1	4.1	6.9	6.9	64.	67.	1.0	< 0.1	4.1E-10	100	0	0
.5E	8.5	8.5	14.	14.	69.	74.	2.1	< 0.1	8.5E-10	100	0	0
.5D	15.	15.	26.	26.	76.	86.	3.8	< 0.1	1.5E-09	100	0	0
.5C	22.	22.	36.	36.	83.	96.	5.5	0.1	2.2E-09	100	0	0
.5B	23.	23.	38.	38.	83.	98.	5.7	0.1	2.3E-09	100	0	0
.5A	23.	23.	39.	39.	84.	99.	5.8	0.1	2.3E-09	100	0	0
.5CL	23.	23.	39.	39.	84.	99.	5.8	0.1	2.3E-09	100	0	0
.5a	23.	23.	39.	39.	84.	99.	5.8	0.1	2.3E-09	100	0	0
.5b	23.	23.	38.	38.	83.	98.	5.7	0.1	2.3E-09	100	0	0
.5c	22.	22.	36.	36.	83.	96.	5.5	0.1	2.2E-09	100	0	0
.5d	15.	15.	26.	26.	76.	86.	3.8	< 0.1	1.5E-09	100	0	0
.5e	8.5	8.5	14.	14.	69.	74.	2.1	< 0.1	8.5E-10	100	0	0
.5f	4.1	4.1	6.9	6.9	64.	67.	1.0	< 0.1	4.1E-10	100	0	0
1F	1.2	1.2	2.1	2.1	61.	62.	0.3	< 0.1	1.2E-10	100	0	0
1E	2.8	2.8	4.7	4.7	63.	65.	0.7	< 0.1	2.8E-10	100	0	0
1D	5.8	5.8	9.7	9.7	66.	70.	1.5	< 0.1	5.8E-10	100	0	0
1C	9.8	9.8	16.	16.	70.	76.	2.5	< 0.1	9.8E-10	100	0	0
1B	11.	11.	18.	18.	71.	78.	2.7	< 0.1	1.1E-09	100	0	0
1A	11.	11.	19.	19.	72.	79.	2.8	< 0.1	1.1E-09	100	0	0
1a	11.	11.	19.	19.	72.	79.	2.8	< 0.1	1.1E-09	100	0	0
1.5F	0.2	0.2	0.3	0.3	60.	89.	< 0.1	< 0.1	2.0E-11	100	0	0
1.5E	0.4	0.4	0.7	0.7	61.	130.	< 0.1	< 0.1	5.2E-11	100	0	0
1.5D	0.9	0.9	1.4	1.4	61.	230.	0.2	< 0.1	1.1E-10	100	0	0
1.5C	1.6	1.6	2.6	2.6	62.	350.	0.4	< 0.1	2.0E-10	100	0	0
1.5B	2.0	2.0	3.3	3.3	63.	420.	0.5	0.1	2.6E-10	100	0	0
1.5A	2.1	2.1	3.6	3.6	63.	450.	0.5	0.1	2.9E-10	100	0	0
1.5a	2.1	2.1	3.6	3.6	63.	450.	0.5	0.1	2.9E-10	100	0	0
1.5b	2.0	2.0	3.3	3.3	63.	420.	0.5	0.1	2.6E-10	100	0	0
1.5c	1.6	1.6	2.6	2.6	62.	350.	0.4	< 0.1	2.0E-10	100	0	0
1.5d	0.9	0.9	1.4	1.4	61.	230.	0.2	< 0.1	1.1E-10	100	0	0
1.5e	0.4	0.4	0.7	0.7	61.	130.	< 0.1	< 0.1	5.2E-11	100	0	0

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TABLE E2. g

OFFSITE SURVEY AND SAMPLING DATA (T = 04:30) (07:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
1.5f	0.2	0.2	0.3	0.3	60.	89.	< 0.1	< 0.1	2.0E-11	100	0	0
1CL	3.4	3.4	5.7	5.7	65.	680.	0.9	0.2	4.5E-10	100	0	0
1b	3.0	3.0	5.1	5.1	64.	620.	0.8	0.2	4.0E-10	100	0	0
1c	2.4	2.4	3.9	3.9	63.	480.	0.6	0.1	3.0E-10	100	0	0
1d	1.3	1.3	2.1	2.1	62.	290.	0.3	< 0.1	1.6E-10	100	0	0
1e	0.6	0.6	1.0	1.0	61.	170.	0.1	< 0.1	7.9E-11	100	0	0
1f	< 0.1	< 0.1	< 0.1	< 0.1	60.	69.	< 0.1	< 0.1	6.1E-12	100	0	0
1.2F	0.2	0.2	0.4	0.4	60.	110.	< 0.1	< 0.1	3.3E-11	100	0	0
1.2E	0.6	0.6	1.0	1.0	61.	170.	0.1	< 0.1	7.9E-11	100	0	0
1.2D	1.3	1.3	2.1	2.1	62.	300.	0.3	< 0.1	1.6E-10	100	0	0
1.2C	2.2	2.2	3.7	3.7	63.	470.	0.6	0.1	2.9E-10	100	0	0
1.2B	2.6	2.6	4.3	4.3	64.	530.	0.6	0.1	3.4E-10	100	0	0
1.2A	2.8	2.8	4.6	4.6	64.	560.	0.7	0.1	3.6E-10	100	0	0
1.2CL	2.8	2.8	4.7	4.7	64.	570.	0.7	0.2	3.7E-10	100	0	0
1.2a	2.8	2.8	4.6	4.6	64.	560.	0.7	0.1	3.6E-10	100	0	0
1.2b	2.6	2.6	4.3	4.3	64.	530.	0.6	0.1	3.4E+10	100	0	0
1.2c	2.2	2.2	3.7	3.7	63.	470.	0.6	0.1	2.9E-10	100	0	0
1.2d	1.3	1.3	2.1	2.1	62.	300.	0.3	< 0.1	1.6E-10	100	0	0
1.2e	0.6	0.6	1.0	1.0	61.	170.	0.1	< 0.1	7.9E-11	100	0	0
1.2f	0.2	0.2	0.4	0.4	60.	110.	< 0.1	< 0.1	3.3E-11	100	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

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TABLE E2. g

OFFSITE SURVEY AND SAMPLING DATA (T = 04:30) (07:30)
(continued)

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.4E-01 4.7E-05 2.5E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 5.6 mRem/hr
Thyroid Dose Projection: 1.7 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 6.0 mRem/hr
at a distance of: 1.20 miles downwind

Maximum Thyroid Dose Commitment: 1.9 mRem/hr
at a distance of: 1.20 miles downwind

TABLE E2. h

OFFSITE SURVEY AND SAMPLING DATA (T = 04:45) (07:45)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	ground (mR/hr)	OPEN WINDOW waist (mR/hr)	ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
.5F	4.6	4.6	7.6	7.6	64.	66.	1.1	< 0.1	3.9E-10	100	0	0
.5E	9.4	9.4	16.	16.	68.	73.	2.4	< 0.1	8.0E-10	100	0	0
.5D	17.	17.	28.	28.	75.	84.	4.2	< 0.1	1.4E-09	100	0	0
.5C	24.	24.	40.	40.	81.	94.	6.0	< 0.1	2.0E-09	100	0	0
.5B	25.	25.	42.	42.	81.	96.	6.3	< 0.1	2.1E-09	100	0	0
.5A	26.	26.	43.	43.	82.	96.	6.4	< 0.1	2.2E-09	100	0	0
.5CL	26.	26.	43.	43.	82.	97.	6.4	< 0.1	2.2E-09	100	0	0
.5a	26.	26.	43.	43.	82.	96.	6.4	< 0.1	2.2E-09	100	0	0
.5b	25.	25.	42.	42.	81.	96.	6.3	< 0.1	2.1E-09	100	0	0
.5c	24.	24.	40.	40.	81.	94.	6.0	< 0.1	2.0E-09	100	0	0
.5d	17.	17.	28.	28.	75.	84.	4.2	< 0.1	1.4E-09	100	0	0
.5e	9.4	9.4	16.	16.	68.	73.	2.4	< 0.1	8.0E-10	100	0	0
.5f	4.6	4.6	7.6	7.6	64.	66.	1.1	< 0.1	3.9E-10	100	0	0
1F	1.4	1.4	2.3	2.3	61.	62.	0.3	< 0.1	1.2E-10	100	0	0
1E	3.1	3.1	5.2	5.2	63.	64.	0.8	< 0.1	2.6E-10	100	0	0
1D	6.4	6.4	11.	11.	66.	69.	1.6	< 0.1	5.4E-10	100	0	0
1C	11.	11.	18.	18.	69.	75.	2.7	< 0.1	9.2E-10	100	0	0
1B	12.	12.	20.	20.	70.	77.	3.0	< 0.1	1.0E-09	100	0	0
1A	12.	12.	21.	21.	71.	78.	3.1	< 0.1	1.1E-09	100	0	0
1a	12.	12.	21.	21.	71.	78.	3.1	< 0.1	1.1E-09	100	0	0
1.5F	0.5	0.5	0.8	0.8	61.	140.	0.1	< 0.1	5.0E-11	99	0	0
1.5E	1.2	1.2	2.1	2.1	61.	260.	0.3	< 0.1	1.3E-10	99	0	0
1.5D	2.7	2.7	4.5	4.5	63.	510.	0.7	0.1	2.9E-10	99	0	0
1.5C	4.8	4.8	8.1	8.1	65.	870.	1.2	0.2	5.2E-10	99	0	0
1.5B	6.2	6.2	10.	10.	67.	1100.	1.5	0.3	6.4E-10	99	0	0
1.5A	6.6	6.6	11.	11.	67.	1200.	1.7	0.3	7.0E-10	99	0	0
1.5CL	2.0	2.0	3.4	3.4	63.	660.	0.5	0.2	2.8E-10	100	0	0
1.5a	6.6	6.6	11.	11.	67.	1200.	1.7	0.3	7.0E-10	99	0	0
1.5b	6.2	6.2	10.	10.	67.	1100.	1.5	0.3	6.4E-10	99	0	0
1.5c	4.8	4.8	8.1	8.1	65.	870.	1.2	0.2	5.2E-10	99	0	0
1.5d	2.7	2.7	4.5	4.5	63.	510.	0.7	0.1	2.9E-10	99	0	0

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TABLE E2. h

OFFSITE SURVEY AND SAMPLING DATA (T = 04:45) (07:45)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib: Plm	Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	1.2	1.2	2.1	2.1	61.	260.	0.3	< 0.1	1.3E-10	99	0	0
1.5f	0.5	0.5	0.8	0.8	61.	140.	0.1	< 0.1	5.0E-11	99	0	0
2F	< 0.1	< 0.1	0.1	0.1	60.	82.	< 0.1	< 0.1	1.0E-11	100	0	0
2E	0.2	0.2	0.4	0.4	60.	120.	< 0.1	< 0.1	2.9E-11	100	0	0
2D	0.5	0.5	0.8	0.8	61.	200.	0.1	< 0.1	6.7E-11	100	0	0
2C	1.0	1.0	1.6	1.6	61.	340.	0.2	< 0.1	1.3E-10	100	0	0
2B	1.3	1.3	2.1	2.1	62.	430.	0.3	0.1	1.8E-10	100	0	0
2A	1.5	1.5	2.4	2.4	62.	480.	0.4	0.1	2.0E-10	100	0	0
2CL	1.5	1.5	2.5	2.5	62.	490.	0.4	0.1	2.1E-10	100	0	0
2a	1.5	1.5	2.4	2.4	62.	480.	0.4	0.1	2.0E-10	100	0	0
2b	1.3	1.3	2.1	2.1	62.	430.	0.3	0.1	1.8E-10	100	0	0
2c	1.0	1.0	1.6	1.6	61.	340.	0.2	< 0.1	1.3E-10	100	0	0
2d	0.5	0.5	0.8	0.8	61.	200.	0.1	< 0.1	6.7E-11	100	0	0
2e	0.2	0.2	0.4	0.4	60.	120.	< 0.1	< 0.1	2.9E-11	100	0	0
2f	< 0.1	< 0.1	0.1	0.1	60.	82.	< 0.1	< 0.1	1.0E-11	100	0	0
1CL	11.	11.	18.	18.	71.	1700.	2.6	0.5	1.1E-09	99	0	0
1b	9.2	9.2	15.	16.	70.	1600.	2.3	0.4	9.9E-10	99	0	0
1c	7.0	7.0	12.	12.	68.	1200.	1.8	0.3	7.7E-10	99	0	0
1d	3.9	3.9	6.6	6.6	64.	710.	1.0	0.2	4.2E-10	99	0	0
1e	1.8	1.8	3.1	3.1	62.	360.	0.5	< 0.1	2.0E-10	99	0	0
1f	0.1	0.1	0.2	0.2	60.	84.	< 0.1	< 0.1	1.5E-11	99	0	0
1.2F	0.7	0.7	1.3	1.3	61.	180.	0.2	< 0.1	8.1E-11	99	0	0
1.2E	1.9	1.9	3.2	3.2	62.	380.	0.5	< 0.1	2.0E-10	99	0	0
1.2D	3.9	3.9	6.6	6.6	64.	710.	1.0	0.2	4.2E-10	99	0	0
1.2C	7.0	7.0	12.	12.	67.	1200.	1.8	0.3	7.3E-10	99	0	0
1.2B	7.9	7.9	13.	13.	68.	1400.	2.0	0.4	8.4E-10	99	0	0
1.2A	8.4	8.4	14.	14.	69.	1500.	2.1	0.4	8.9E-10	99	0	0
1.2CL	8.8	8.8	15.	15.	69.	1500.	2.2	0.4	9.2E-10	99	0	0
1.2a	8.4	8.4	14.	14.	69.	1500.	2.1	0.4	8.9E-10	99	0	0
1.2b	7.9	7.9	13.	13.	68.	1400.	2.0	0.4	8.4E-10	99	0	0

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TABLE E2. h

OFFSITE SURVEY AND SAMPLING DATA (T = 04:45) (07:45)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	ground (mR/hr)	OPEN WINDOW waist (mR/hr)	ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose contrib Plm	percent Plt	Grd
					Air Sample Background is 60 CPM							
1.2c	7.0	7.0	12.	12.	67.	1200.	1.8	0.3	7.3E-10	99	0	0
1.2d	3.9	3.9	6.6	6.6	64.	710.	1.0	0.2	4.2E-10	99	0	0
1.2e	1.9	1.9	3.2	3.2	62.	380.	0.5	< 0.1	2.0E-10	99	0	0
1.2f	0.7	0.7	1.3	1.3	61.	180.	0.2	< 0.1	8.1E-11	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.6E-01 4.3E-05 2.4E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 6.2 mRem/hr
Thyroid Dose Projection: 1.6 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 6.6 mRem/hr
at a distance of: 1.20 miles downwind

Maximum Thyroid Dose Commitment: 1.8 mRem/hr
at a distance of: 1.18 miles downwind

TABLE E2. i

OFFSITE SURVEY AND SAMPLING DATA (T = 05:00) (08:00)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
	CLOSED WINDOW		OPEN WINDOW									
FIELD MONITOR POINT	waist (mR/hr)	ground (mR/hr)	waist (mR/hr)	ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
.5F	4.3	4.3	7.2	7.2	63.	65.	1.1	< 0.1	2.9E-10	99	0	0
.5E	8.9	8.9	15.	15.	66.	70.	2.2	< 0.1	5.9E-10	99	0	0
.5D	16.	16.	27.	27.	71.	79.	4.0	< 0.1	1.1E-09	99	0	0
.5C	23.	23.	38.	38.	75.	86.	5.7	< 0.1	1.5E-09	99	0	0
.5B	24.	24.	39.	40.	76.	87.	5.9	< 0.1	1.6E-09	99	0	0
.5A	24.	24.	40.	40.	76.	88.	6.0	< 0.1	1.6E-09	99	0	0
.5CL	24.	24.	41.	41.	76.	88.	6.1	< 0.1	1.6E-09	99	0	0
.5a	24.	24.	40.	40.	76.	88.	6.0	< 0.1	1.6E-09	99	0	0
.5b	24.	24.	39.	40.	76.	87.	5.9	< 0.1	1.6E-09	99	0	0
.5c	23.	23.	38.	38.	75.	86.	5.7	< 0.1	1.5E-09	99	0	0
.5d	16.	16.	27.	27.	71.	79.	4.0	< 0.1	1.1E-09	99	0	0
.5e	8.9	8.9	15.	15.	66.	70.	2.2	< 0.1	5.9E-10	99	0	0
.5f	4.3	4.3	7.2	7.2	63.	65.	1.1	< 0.1	2.9E-10	99	0	0
1F	1.3	1.3	2.2	2.2	61.	61.	0.3	< 0.1	8.6E-11	99	0	0
1E	2.9	2.9	4.9	4.9	62.	63.	0.7	< 0.1	2.0E-10	99	0	0
1D	6.0	6.0	10.	10.	64.	67.	1.5	< 0.1	4.0E-10	99	0	0
1C	10.	10.	17.	17.	67.	72.	2.6	< 0.1	6.8E-10	99	0	0
1B	11.	11.	19.	19.	67.	73.	2.8	< 0.1	7.4E-10	99	0	0
1A	12.	12.	20.	20.	68.	74.	2.9	< 0.1	7.8E-10	99	0	0
1a	12.	12.	20.	20.	68.	74.	2.9	< 0.1	7.8E-10	99	0	0
1.5F	0.5	0.5	0.9	0.9	60.	140.	0.1	< 0.1	4.7E-11	99	0	0
1.5E	1.4	1.4	2.3	2.3	61.	260.	0.3	< 0.1	1.2E-10	99	0	0
1.5D	3.0	3.0	5.0	5.1	63.	480.	0.8	0.1	2.7E-10	99	0	0
1.5C	5.6	5.6	9.4	9.5	65.	840.	1.4	0.2	4.8E-10	99	0	0
1.5B	6.9	6.9	12.	12.	66.	1000.	1.7	0.3	6.0E-10	99	0	0
1.5A	7.3	7.3	12.	12.	67.	1100.	1.8	0.3	6.5E-10	99	0	0
1.5CL	6.4	6.4	11.	11.	67.	1700.	1.6	0.5	7.0E-10	99	0	0
1.5a	7.3	7.3	12.	12.	67.	1100.	1.8	0.3	6.5E-10	99	0	0
1.5b	6.9	6.9	12.	12.	66.	1000.	1.7	0.3	6.0E-10	99	0	0
1.5c	5.6	5.6	9.4	9.5	65.	840.	1.4	0.2	4.8E-10	99	0	0
1.5d	3.0	3.0	5.0	5.1	63.	480.	0.8	0.1	2.7E-10	99	0	0

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TABLE E2. i

OFFSITE SURVEY AND SAMPLING DATA (T = 05:00) (08:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	1.4	1.4	2.3	2.3	61.	260.	0.3	< 0.1	1.2E-10	99	0	0
1.5f	0.5	0.5	0.9	0.9	60.	140.	0.1	< 0.1	4.7E-11	99	0	0
2F	0.2	0.2	0.4	0.4	60.	120.	< 0.1	< 0.1	2.6E-11	99	0	0
2E	0.6	0.6	1.1	1.1	61.	220.	0.2	< 0.1	7.2E-11	99	0	0
2D	1.5	1.5	2.5	2.5	62.	460.	0.4	0.1	1.7E-10	99	0	0
2C	3.0	3.0	5.0	5.0	63.	820.	0.7	0.2	3.3E-10	99	0	0
2B	4.0	4.0	6.7	6.7	64.	1100.	1.0	0.3	4.4E-10	99	0	0
2A	4.3	4.3	7.2	7.2	65.	1200.	1.1	0.3	4.8E-10	99	0	0
2CL	4.7	4.7	7.9	8.0	65.	1300.	1.2	0.3	5.1E-10	99	0	0
2a	4.3	4.3	7.2	7.2	65.	1200.	1.1	0.3	4.8E-10	99	0	0
2b	4.0	4.0	6.7	6.7	64.	1100.	1.0	0.3	4.4E-10	99	0	0
2c	3.0	3.0	5.0	5.0	63.	820.	0.7	0.2	3.3E-10	99	0	0
2d	1.5	1.5	2.5	2.5	62.	460.	0.4	0.1	1.7E-10	99	0	0
2e	0.6	0.6	1.1	1.1	61.	220.	0.2	< 0.1	7.2E-11	99	0	0
2f	0.2	0.2	0.4	0.4	60.	120.	< 0.1	< 0.1	2.6E-11	99	0	0
2.5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	75.	< 0.1	< 0.1	5.8E-12	100	0	0
2.5E	0.1	0.1	0.2	0.2	60.	100.	< 0.1	< 0.1	1.8E-11	100	0	0
2.5D	0.3	0.3	0.5	0.5	60.	170.	< 0.1	< 0.1	4.4E-11	100	0	0
2.5C	0.6	0.6	1.1	1.1	61.	280.	0.2	< 0.1	8.8E-11	100	0	0
2.5B	0.9	0.9	1.5	1.5	61.	390.	0.2	< 0.1	1.3E-10	100	0	0
2.5A	1.0	1.0	1.7	1.7	61.	430.	0.3	0.1	1.4E-10	100	0	0
2.5CL	1.1	1.1	1.8	1.8	62.	450.	0.3	0.1	1.6E-10	100	0	0
2.5a	1.0	1.0	1.7	1.7	61.	430.	0.3	0.1	1.4E-10	100	0	0
2.5b	0.9	0.9	1.5	1.5	61.	390.	0.2	< 0.1	1.3E-10	100	0	0
2.5c	0.6	0.6	1.1	1.1	61.	280.	0.2	< 0.1	8.8E-11	100	0	0
2.5d	0.3	0.3	0.5	0.5	60.	170.	< 0.1	< 0.1	4.4E-11	100	0	0
2.5e	0.1	0.1	0.2	0.2	60.	100.	< 0.1	< 0.1	1.8E-11	100	0	0
2.5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	75.	< 0.1	< 0.1	5.8E-12	100	0	0
1CL	12.	12.	19.	20.	70.	1700.	2.9	0.5	1.0E-09	99	0	0
1b	10.	10.	17.	17.	69.	1500.	2.6	0.4	9.2E-10	99	0	0

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TABLE E2. i

OFFSITE SURVEY AND SAMPLING DATA (T = 05:00) (08:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib: Plm	Plt	Grd
					Air Sample Background is 60 CPM							
1c	8.2	8.2	14.	14.	67.	1200.	2.0	0.3	7.1E-10	99	0	0
1d	4.3	4.3	7.2	7.3	64.	680.	1.1	0.2	3.8E-10	99	0	0
1e	2.1	2.1	3.5	3.5	62.	350.	0.5	< 0.1	1.8E-10	99	0	0
1f	0.2	0.2	0.3	0.3	60.	83.	< 0.1	< 0.1	1.4E-11	99	0	0
1.2F	0.9	0.9	1.4	1.5	61.	180.	0.2	< 0.1	7.5E-11	99	0	0
1.2E	2.1	2.1	3.5	3.6	62.	360.	0.5	< 0.1	1.8E-10	99	0	0
1.2D	4.3	4.3	7.2	7.3	64.	680.	1.1	0.2	3.8E-10	99	0	0
1.2C	7.7	7.7	13.	13.	67.	1100.	1.9	0.3	6.8E-10	99	0	0
1.2B	9.0	9.0	15.	15.	68.	1300.	2.3	0.4	7.8E-10	99	0	0
1.2A	9.5	9.5	16.	16.	68.	1400.	2.4	0.4	8.4E-10	99	0	0
1.2CL	9.5	9.5	16.	16.	68.	1400.	2.4	0.4	8.5E-10	99	0	0
1.2a	9.5	9.5	16.	16.	68.	1400.	2.4	0.4	8.4E-10	99	0	0
1.2b	9.0	9.0	15.	15.	68.	1300.	2.3	0.4	7.8E-10	99	0	0
1.2c	7.7	7.7	13.	13.	67.	1100.	1.9	0.3	6.8E-10	99	0	0
1.2d	4.3	4.3	7.2	7.3	64.	680.	1.1	0.2	3.8E-10	99	0	0
1.2e	2.1	2.1	3.5	3.6	62.	360.	0.5	< 0.1	1.8E-10	99	0	0
1.2f	0.9	0.9	1.4	1.5	61.	180.	0.2	< 0.1	7.5E-11	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

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TABLE E2. i

OFFSITE SURVEY AND SAMPLING DATA (T = 05:00) (08:00)
(continued)

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.6E-01 3.1E-05 2.1E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 5.9 mRem/hr
Thyroid Dose Projection: 1.2 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 6.2 mRem/hr
at a distance of: 1.20 miles downwind

Maximum Thyroid Dose Commitment: 1.7 mRem/hr
at a distance of: 1.18 miles downwind

TABLE E3. f

ENVIRONMENTAL SAMPLING DATA (T = 05:00) (08:00)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	4600.	4800.	0.4
.5E	9600.	9900.	0.9
.5D	1.7E4	1.8E4	1.6
.5C	2.4E4	2.5E4	2.2
.5B	2.5E4	2.6E4	2.3
.5A	2.6E4	2.6E4	2.3
.5CL	2.6E4	2.7E4	2.4
.5a	2.6E4	2.6E4	2.3
.5b	2.5E4	2.6E4	2.3
.5c	2.4E4	2.5E4	2.2
.5d	1.7E4	1.8E4	1.6
.5e	9600.	9900.	0.9
.5f	4600.	4800.	0.4
1F	1400.	1400.	0.1
1E	3200.	3300.	0.3
1D	6700.	6900.	0.6
1C	1.1E4	1.1E4	1.0
1B	1.2E4	1.2E4	1.1
1A	1.3E4	1.3E4	1.2
1a	1.3E4	1.3E4	1.2
1.5F	340.	3300.	0.3
1.5E	890.	8500.	0.8
1.5D	1900.	1.9E4	1.6
1.5C	3500.	3.4E4	3.0
1.5B	4500.	4.2E4	3.8
1.5A	4800.	4.6E4	4.1
1.5CL	1400.	1.9E4	1.7
1.5a	4800.	4.6E4	4.1
1.5b	4500.	4.2E4	3.8
1.5c	3500.	3.4E4	3.0
1.5d	1900.	1.9E4	1.6
1.5e	890.	8500.	0.8
1.5f	340.	3300.	0.3
2F	50.	700.	< 0.1
2E	140.	2000.	0.2
2D	320.	4600.	0.4
2C	650.	8900.	0.8
2B	850.	1.2E4	1.1
2A	950.	1.3E4	1.2
2CL	1000.	1.4E4	1.2

CONTINUED ON NEXT PAGE

TABLE E3. g

ENVIRONMENTAL SAMPLING DATA (T = 05:00) (08:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2a	950.	1.3E4	1.2
2b	850.	1.2E4	1.1
2c	650.	8900.	0.8
2d	320.	4600.	0.4
2e	140.	2000.	0.2
2f	50.	700.	< 0.1
2.5E	< 0.1	0.4	< 0.1
2.5D	0.2	1.2	< 0.1
2.5C	0.6	2.7	< 0.1
2.5B	1.4	4.5	< 0.1
2.5A	2.4	6.0	< 0.1
2.5CL	2.9	6.5	< 0.1
2.5a	2.4	6.0	< 0.1
2.5b	1.4	4.5	< 0.1
2.5c	0.6	2.7	< 0.1
2.5d	0.2	1.2	< 0.1
2.5e	< 0.1	0.4	< 0.1
3D	0.1	0.2	< 0.1
3C	0.5	0.5	< 0.1
3B	1.2	1.3	< 0.1
3A	2.0	2.1	< 0.1
3CL	2.3	2.5	< 0.1
3a	2.0	2.1	< 0.1
3b	1.2	1.3	< 0.1
3c	0.5	0.5	< 0.1
3d	0.1	0.2	< 0.1
4D	0.1	0.1	< 0.1
4C	0.4	0.4	< 0.1
4B	1.0	1.1	< 0.1
4A	1.7	2.0	< 0.1
4CL	2.1	2.4	< 0.1
4a	1.7	2.0	< 0.1
4b	1.0	1.1	< 0.1
4c	0.4	0.4	< 0.1
4d	0.1	0.1	< 0.1
4.5C	0.2	0.2	< 0.1
4.5B	0.5	0.6	< 0.1
4.5A	1.0	1.1	< 0.1
4.5CL	1.2	1.4	< 0.1
4.5a	1.0	1.1	< 0.1

CONTINUED ON NEXT PAGE

TABLE E3. g

ENVIRONMENTAL SAMPLING DATA (T = 05:00) (08:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4.5b	0.5	0.6	< 0.1
4.5c	0.2	0.2	< 0.1
5B	0.2	0.2	< 0.1
5A	0.3	0.4	< 0.1
5CL	0.4	0.4	< 0.1
5a	0.3	0.4	< 0.1
5b	0.2	0.2	< 0.1
1CL	7600.	7.1E4	6.3
1b	6600.	6.4E4	5.7
1c	5200.	5.0E4	4.4
1d	2800.	2.7E4	2.4
1e	1400.	1.3E4	1.1
1f	100.	990.	< 0.1
1.2F	550.	5300.	0.5
1.2E	1400.	1.3E4	1.2
1.2D	2800.	2.7E4	2.4
1.2C	4900.	4.7E4	4.1
1.2B	5600.	5.4E4	4.8
1.2A	6200.	5.7E4	5.1
1.2CL	6200.	6.0E4	5.3
1.2a	6200.	5.7E4	5.1
1.2b	5600.	5.4E4	4.8
1.2c	4900.	4.7E4	4.1
1.2d	2800.	2.7E4	2.4
1.2e	1400.	1.3E4	1.2
1.2f	550.	5300.	0.5

OTHER SAMPLES LESS THAN MDA

TABLE E2. j

OFFSITE SURVEY AND SAMPLING DATA (T = 05:30) (08:30)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
.5F	3.8	3.8	6.5	6.5	62.	63.	1.0	< 0.1	1.6E-10	99	0	0
.5E	7.9	7.9	13.	13.	63.	66.	2.0	< 0.1	3.3E-10	99	0	0
.5D	14.	14.	24.	24.	66.	71.	3.6	< 0.1	5.9E-10	99	0	0
.5C	20.	20.	34.	34.	68.	76.	5.1	< 0.1	8.3E-10	99	0	0
.5B	21.	21.	35.	36.	68.	77.	5.3	< 0.1	8.6E-10	99	0	0
.5A	22.	22.	36.	36.	68.	77.	5.4	< 0.1	8.8E-10	99	0	0
.5CL	22.	22.	36.	36.	69.	77.	5.4	< 0.1	8.9E-10	99	0	0
.5a	22.	22.	36.	36.	68.	77.	5.4	< 0.1	8.8E-10	99	0	0
.5b	21.	21.	35.	36.	68.	77.	5.3	< 0.1	8.6E-10	99	0	0
.5c	20.	20.	34.	34.	68.	76.	5.1	< 0.1	8.3E-10	99	0	0
.5d	14.	14.	24.	24.	66.	71.	3.6	< 0.1	5.9E-10	99	0	0
.5e	7.9	7.9	13.	13.	63.	66.	2.0	< 0.1	3.2E-10	99	0	0
.5f	3.8	3.8	6.5	6.5	62.	63.	1.0	< 0.1	1.6E-10	99	0	0
1F	1.2	1.2	1.9	1.9	60.	61.	0.3	< 0.1	4.7E-11	99	0	0
1E	2.6	2.6	4.4	4.4	61.	62.	0.7	< 0.1	1.1E-10	99	0	0
1D	5.4	5.4	9.1	9.1	62.	64.	1.4	< 0.1	2.2E-10	99	0	0
1C	9.1	9.1	15.	15.	64.	67.	2.3	< 0.1	3.7E-10	99	0	0
1B	10.	10.	17.	17.	64.	68.	2.5	< 0.1	4.1E-10	99	0	0
1A	11.	11.	18.	18.	64.	68.	2.6	< 0.1	4.3E-10	99	0	0
1a	11.	11.	18.	18.	64.	68.	2.6	< 0.1	4.3E-10	99	0	0
1.5F	0.5	0.5	0.8	0.8	60.	110.	0.1	< 0.1	2.6E-11	99	0	0
1.5E	1.2	1.2	2.1	2.1	61.	190.	0.3	< 0.1	6.8E-11	99	0	0
1.5D	2.7	2.7	4.6	4.7	61.	360.	0.7	< 0.1	1.5E-10	99	0	0
1.5C	4.9	4.9	8.3	8.5	63.	600.	1.2	0.2	2.6E-10	99	0	0
1.5B	6.2	6.2	10.	11.	63.	720.	1.5	0.2	3.4E-10	99	0	0
1.5A	6.6	6.6	11.	11.	63.	780.	1.6	0.2	3.5E-10	99	0	0
1.5CL	6.6	6.6	11.	11.	65.	1400.	1.6	0.4	4.8E-10	99	0	0
1.5a	6.6	6.6	11.	11.	63.	780.	1.6	0.2	3.5E-10	99	0	0
1.5b	6.2	6.2	10.	11.	63.	720.	1.5	0.2	3.4E-10	99	0	0
1.5c	4.9	4.9	8.3	8.5	63.	600.	1.2	0.2	2.6E-10	99	0	0
1.5d	2.7	2.7	4.6	4.7	61.	360.	0.7	< 0.1	1.5E-10	99	0	0

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TABLE E2. j

OFFSITE SURVEY AND SAMPLING DATA (T = 05:30) (08:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	1.2	1.2	2.1	2.1	61.	190.	0.3	< 0.1	6.8E-11	99	0	0
1.5f	0.5	0.5	0.8	0.8	60.	110.	0.1	< 0.1	2.6E-11	99	0	0
2F	0.2	0.2	0.4	0.4	60.	110.	< 0.1	< 0.1	1.8E-11	99	0	0
2E	0.7	0.7	1.2	1.2	60.	200.	0.2	< 0.1	5.0E-11	99	0	0
2D	1.6	1.6	2.8	2.8	61.	370.	0.4	< 0.1	1.2E-10	99	0	0
2C	3.2	3.2	5.3	5.5	62.	670.	0.8	0.2	2.2E-10	99	0	0
2B	4.1	4.1	6.9	7.1	63.	880.	1.0	0.2	3.1E-10	99	0	0
2A	4.9	4.9	8.3	8.5	63.	990.	1.2	0.3	3.4E-10	99	0	0
2CL	4.9	4.9	8.3	8.5	63.	1000.	1.2	0.3	3.5E-10	99	0	0
2a	4.9	4.9	8.3	8.5	63.	990.	1.2	0.3	3.4E-10	99	0	0
2b	4.1	4.1	6.9	7.1	63.	880.	1.0	0.2	3.1E-10	99	0	0
2c	3.2	3.2	5.3	5.5	62.	670.	0.8	0.2	2.2E-10	99	0	0
2d	1.6	1.6	2.8	2.8	61.	370.	0.4	< 0.1	1.2E-10	99	0	0
2e	0.7	0.7	1.2	1.2	60.	190.	0.2	< 0.1	5.0E-11	99	0	0
2f	0.2	0.2	0.4	0.4	60.	110.	< 0.1	< 0.1	1.8E-11	99	0	0
2.5F	0.1	0.1	0.2	0.2	60.	99.	< 0.1	< 0.1	1.4E-11	99	0	0
2.5E	0.5	0.5	0.8	0.8	60.	180.	0.1	< 0.1	4.1E-11	99	0	0
2.5D	1.1	1.1	1.9	1.9	61.	360.	0.3	< 0.1	1.0E-10	99	0	0
2.5C	2.2	2.2	3.7	3.8	62.	660.	0.6	0.2	2.1E-10	99	0	0
2.5B	3.2	3.2	5.4	5.5	63.	930.	0.8	0.2	2.9E-10	99	0	0
2.5A	3.7	3.7	6.2	6.3	63.	1000.	0.9	0.3	3.4E-10	99	0	0
2.5CL	3.8	3.8	6.4	6.6	63.	1100.	1.0	0.3	3.5E-10	99	0	0
2.5a	3.7	3.7	6.2	6.3	63.	1000.	0.9	0.3	3.4E-10	99	0	0
2.5b	3.2	3.2	5.4	5.5	63.	930.	0.8	0.2	2.9E-10	99	0	0
2.5c	2.2	2.2	3.7	3.8	62.	660.	0.6	0.2	2.1E-10	99	0	0
2.5d	1.1	1.1	1.9	1.9	61.	360.	0.3	< 0.1	1.0E-10	99	0	0
2.5e	0.5	0.5	0.8	0.8	60.	180.	0.1	< 0.1	4.1E-11	99	0	0
2.5f	0.1	0.1	0.2	0.2	60.	99.	< 0.1	< 0.1	1.4E-11	99	0	0
3F	< 0.1	< 0.1	0.1	0.1	60.	88.	< 0.1	< 0.1	9.1E-12	99	0	0
3E	0.3	0.3	0.4	0.4	60.	150.	< 0.1	< 0.1	2.9E-11	99	0	0

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TABLE E2. j

OFFSITE SURVEY AND SAMPLING DATA (T = 05:30) (08:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib: Plm	Plt	Grd
					Air Sample Background is 60 CPM							
3D	0.7	0.7	1.1	1.1	61.	300.	0.2	< 0.1	7.6E-11	99	0	0
3C	1.4	1.4	2.4	2.4	62.	550.	0.3	0.1	1.6E-10	99	0	0
3B	2.1	2.1	3.6	3.6	62.	820.	0.5	0.2	2.5E-10	99	0	0
3A	2.5	2.5	4.2	4.3	63.	940.	0.6	0.2	2.9E-10	99	0	0
3CL	2.6	2.6	4.4	4.5	63.	990.	0.7	0.3	3.1E-10	99	0	0
3a	2.5	2.5	4.2	4.3	63.	940.	0.6	0.2	2.9E-10	99	0	0
3b	2.1	2.1	3.6	3.6	62.	820.	0.5	0.2	2.5E-10	99	0	0
3c	1.4	1.4	2.4	2.4	62.	550.	0.3	0.1	1.6E-10	99	0	0
3d	0.7	0.7	1.1	1.1	61.	300.	0.2	< 0.1	7.6E-11	99	0	0
3e	0.3	0.3	0.4	0.4	60.	150.	< 0.1	< 0.1	2.9E-11	99	0	0
3f	< 0.1	< 0.1	0.1	0.1	60.	88.	< 0.1	< 0.1	9.1E-12	99	0	0
1CL	11.	11.	18.	18.	66.	1200.	2.7	0.3	5.7E-10	99	0	0
1b	9.5	9.5	16.	16.	65.	1100.	2.4	0.3	5.0E-10	99	0	0
1c	7.4	7.4	12.	13.	64.	850.	1.9	0.2	4.0E-10	99	0	0
1d	4.0	4.0	6.6	6.8	62.	490.	1.0	0.1	2.2E-10	99	0	0
1e	1.9	1.9	3.1	3.2	61.	270.	0.5	< 0.1	1.0E-10	99	0	0
1f	0.1	0.1	0.2	0.3	60.	76.	< 0.1	< 0.1	7.9E-12	99	0	0
1.2F	0.8	0.8	1.3	1.3	60.	140.	0.2	< 0.1	4.1E-11	99	0	0
1.2E	1.9	1.9	3.2	3.3	61.	270.	0.5	< 0.1	1.0E-10	99	0	0
1.2D	4.0	4.0	6.6	6.8	62.	490.	1.0	0.1	2.2E-10	99	0	0
1.2C	7.0	7.0	12.	12.	64.	810.	1.7	0.2	3.8E-10	99	0	0
1.2B	7.8	7.8	13.	13.	64.	930.	2.0	0.2	4.3E-10	99	0	0
1.2A	8.6	8.7	15.	15.	64.	990.	2.2	0.3	4.5E-10	99	0	0
1.2CL	8.6	8.7	15.	15.	65.	1000.	2.2	0.3	4.7E-10	99	0	0
1.2a	8.6	8.7	15.	15.	64.	990.	2.2	0.3	4.5E-10	99	0	0
1.2b	7.8	7.8	13.	13.	64.	930.	2.0	0.2	4.3E-10	99	0	0
1.2c	7.0	7.0	12.	12.	64.	810.	1.7	0.2	3.8E-10	99	0	0
1.2d	4.0	4.0	6.6	6.8	62.	490.	1.0	0.1	2.2E-10	99	0	0
1.2e	1.9	1.9	3.2	3.3	61.	270.	0.5	< 0.1	1.0E-10	99	0	0
1.2f	0.8	0.8	1.3	1.3	60.	140.	0.2	< 0.1	4.1E-11	99	0	0

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TABLE E2. j

OFFSITE SURVEY AND SAMPLING DATA (T = 05:30) (08:30)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.4E-01 1.7E-05 1.5E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 5.3 mRem/hr
Thyroid Dose Projection: 0.7 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 5.6 mRem/hr
at a distance of: 1.18 miles downwind

Maximum Thyroid Dose Commitment: 1.2 mRem/hr
at a distance of: 1.18 miles downwind

TABLE E2. k

OFFSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
.5F	3.5	3.5	5.9	5.9	61.	62.	0.9	< 0.1	8.7E-11	99	0	0
.5E	7.2	7.2	12.	12.	62.	64.	1.8	< 0.1	1.8E-10	99	0	0
.5D	13.	13.	22.	22.	63.	67.	3.2	< 0.1	3.2E-10	99	0	0
.5C	18.	18.	31.	31.	64.	70.	4.6	< 0.1	4.6E-10	99	0	0
.5B	19.	19.	32.	32.	64.	71.	4.8	< 0.1	4.8E-10	99	0	0
.5A	19.	19.	33.	33.	65.	71.	4.9	< 0.1	4.9E-10	99	0	0
.5CL	20.	20.	33.	33.	65.	71.	4.9	< 0.1	4.9E-10	99	0	0
.5a	19.	19.	33.	33.	65.	71.	4.9	< 0.1	4.9E-10	99	0	0
.5b	19.	19.	32.	32.	64.	71.	4.8	< 0.1	4.8E-10	99	0	0
.5c	18.	18.	31.	31.	64.	70.	4.6	< 0.1	4.6E-10	99	0	0
.5d	13.	13.	22.	22.	63.	67.	3.2	< 0.1	3.2E-10	99	0	0
.5e	7.2	7.2	12.	12.	62.	64.	1.8	< 0.1	1.8E-10	99	0	0
.5f	3.5	3.5	5.9	5.9	61.	62.	0.9	< 0.1	8.7E-11	99	0	0
1F	1.0	1.0	1.8	1.8	60.	61.	0.3	< 0.1	2.6E-11	99	0	0
1E	2.4	2.4	4.0	4.0	61.	61.	0.6	< 0.1	6.0E-11	99	0	0
1D	4.9	4.9	8.3	8.3	61.	63.	1.2	< 0.1	1.2E-10	99	0	0
1C	8.3	8.3	14.	14.	62.	65.	2.1	< 0.1	2.1E-10	99	0	0
1B	9.0	9.0	15.	15.	62.	65.	2.3	< 0.1	2.3E-10	99	0	0
1A	9.5	9.5	16.	16.	62.	65.	2.4	< 0.1	2.4E-10	99	0	0
1a	9.5	9.5	16.	16.	62.	65.	2.4	< 0.1	2.4E-10	99	0	0
1.5F	0.4	0.4	0.7	0.8	60.	97.	0.1	< 0.1	1.4E-11	99	0	0
1.5E	1.1	1.1	1.9	1.9	60.	160.	0.3	< 0.1	3.6E-11	99	0	0
1.5D	2.5	2.5	4.2	4.3	61.	270.	0.6	< 0.1	8.2E-11	99	0	0
1.5C	4.4	4.4	7.4	7.6	61.	450.	1.1	0.1	1.5E-10	99	0	0
1.5B	5.6	5.6	9.4	9.6	62.	540.	1.4	0.1	1.8E-10	99	0	0
1.5A	6.0	6.0	10.	10.	62.	580.	1.5	0.1	2.0E-10	99	0	0
1.5CL	6.3	6.4	11.	11.	63.	990.	1.6	0.3	2.7E-10	99	0	0
1.5a	6.0	6.0	10.	10.	62.	580.	1.5	0.1	2.0E-10	99	0	0
1.5b	5.6	5.6	9.4	9.6	62.	540.	1.4	0.1	1.8E-10	99	0	0
1.5c	4.4	4.4	7.4	7.6	61.	450.	1.1	0.1	1.5E-10	99	0	0
1.5d	2.5	2.5	4.2	4.3	61.	270.	0.6	< 0.1	8.2E-11	99	0	0

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TABLE E2. k

OFFSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	1.1	1.1	1.9	1.9	60.	160.	0.3	< 0.1	3.6E-11	99	0	0
1.5f	0.4	0.4	0.7	0.8	60.	97.	0.1	< 0.1	1.4E-11	99	0	0
2F	0.2	0.2	0.4	0.4	60.	94.	< 0.1	< 0.1	9.7E-12	99	0	0
2E	0.6	0.6	1.1	1.1	60.	160.	0.2	< 0.1	2.7E-11	99	0	0
2D	1.5	1.5	2.5	2.6	61.	280.	0.4	< 0.1	6.4E-11	99	0	0
2C	2.9	2.9	4.9	5.1	61.	490.	0.7	0.1	1.2E-10	99	0	0
2B	3.9	3.9	6.6	6.9	62.	640.	1.0	0.2	1.7E-10	99	0	0
2A	4.4	4.4	7.4	7.6	62.	720.	1.1	0.2	1.8E-10	99	0	0
2CL	4.4	4.4	7.4	7.7	62.	730.	1.1	0.2	2.0E-10	99	0	0
2a	4.4	4.4	7.4	7.6	62.	720.	1.1	0.2	1.8E-10	99	0	0
2b	3.9	3.9	6.6	6.9	62.	640.	1.0	0.2	1.7E-10	99	0	0
2c	2.9	2.9	4.9	5.1	61.	490.	0.7	0.1	1.2E-10	99	0	0
2d	1.5	1.5	2.5	2.6	61.	280.	0.4	< 0.1	6.4E-11	99	0	0
2e	0.6	0.6	1.1	1.1	60.	160.	0.2	< 0.1	2.7E-11	99	0	0
2f	0.2	0.2	0.4	0.4	60.	94.	< 0.1	< 0.1	9.7E-12	99	0	0
2.5F	0.1	0.1	0.2	0.2	60.	87.	< 0.1	< 0.1	7.4E-12	99	0	0
2.5E	0.4	0.4	0.7	0.7	60.	140.	< 0.1	< 0.1	2.3E-11	99	0	0
2.5D	1.0	1.0	1.7	1.7	61.	270.	0.2	< 0.1	5.6E-11	99	0	0
2.5C	2.0	2.0	3.4	3.6	61.	480.	0.5	0.1	1.1E-10	99	0	0
2.5B	2.9	2.9	4.9	5.2	62.	660.	0.7	0.2	1.7E-10	99	0	0
2.5A	3.4	3.4	5.7	5.9	62.	750.	0.8	0.2	1.8E-10	99	0	0
2.5CL	3.5	3.5	6.0	6.2	62.	780.	0.9	0.2	2.0E-10	99	0	0
2.5a	3.4	3.4	5.7	5.9	62.	750.	0.8	0.2	1.8E-10	99	0	0
2.5b	2.9	2.9	4.9	5.2	62.	660.	0.7	0.2	1.7E-10	99	0	0
2.5c	2.0	2.0	3.4	3.6	61.	480.	0.5	0.1	1.1E-10	99	0	0
2.5d	1.0	1.0	1.7	1.7	61.	270.	0.2	< 0.1	5.6E-11	99	0	0
2.5e	0.4	0.4	0.7	0.7	60.	140.	< 0.1	< 0.1	2.3E-11	99	0	0
2.5f	0.1	0.1	0.2	0.2	60.	87.	< 0.1	< 0.1	7.4E-12	99	0	0
3F	< 0.1	< 0.1	0.1	0.2	60.	82.	< 0.1	< 0.1	6.4E-12	99	0	0
3E	0.3	0.3	0.5	0.5	60.	130.	< 0.1	< 0.1	2.0E-11	99	0	0

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TABLE E2. k

OFFSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
3D	0.7	0.7	1.2	1.2	60.	240.	0.2	< 0.1	5.3E-11	99	0	0
3C	1.5	1.5	2.5	2.6	61.	450.	0.4	0.1	1.1E-10	99	0	0
3B	2.3	2.3	3.9	4.1	62.	660.	0.6	0.2	1.7E-10	99	0	0
3A	2.7	2.7	4.5	4.7	62.	760.	0.7	0.2	2.0E-10	99	0	0
3CL	2.9	2.9	4.8	5.0	62.	790.	0.7	0.2	2.1E-10	99	0	0
3a	2.7	2.7	4.5	4.7	62.	760.	0.7	0.2	2.0E-10	99	0	0
3b	2.3	2.3	3.9	4.1	62.	660.	0.6	0.2	1.7E-10	99	0	0
3c	1.5	1.5	2.5	2.6	61.	450.	0.4	0.1	1.1E-10	99	0	0
3d	0.7	0.7	1.2	1.2	60.	240.	0.2	< 0.1	5.3E-11	99	0	0
3e	0.3	0.3	0.5	0.5	60.	130.	< 0.1	< 0.1	2.0E-11	99	0	0
3f	< 0.1	< 0.1	0.1	0.2	60.	82.	< 0.1	< 0.1	6.4E-12	99	0	0
4F	< 0.1	< 0.1	< 0.1	< 0.1	60.	73.	< 0.1	< 0.1	4.1E-12	99	0	0
4E	0.1	0.1	0.2	0.2	60.	110.	< 0.1	< 0.1	1.5E-11	99	0	0
4D	0.4	0.4	0.6	0.6	60.	200.	< 0.1	< 0.1	4.2E-11	99	0	0
4C	0.8	0.8	1.3	1.3	61.	370.	0.2	< 0.1	9.5E-11	99	0	0
4B	1.3	1.3	2.3	2.3	62.	580.	0.3	0.1	1.7E-10	99	0	0
4A	1.6	1.6	2.7	2.8	62.	700.	0.4	0.2	2.0E-10	99	0	0
4CL	1.7	1.7	2.9	3.0	62.	750.	0.4	0.2	2.1E-10	99	0	0
4a	1.6	1.6	2.7	2.8	62.	700.	0.4	0.2	2.0E-10	99	0	0
4b	1.3	1.3	2.3	2.3	62.	580.	0.3	0.1	1.7E-10	99	0	0
4c	0.8	0.8	1.3	1.3	61.	370.	0.2	< 0.1	9.5E-11	99	0	0
4d	0.4	0.4	0.6	0.6	60.	200.	< 0.1	< 0.1	4.2E-11	99	0	0
4e	0.1	0.1	0.2	0.2	60.	110.	< 0.1	< 0.1	1.5E-11	99	0	0
4f	< 0.1	< 0.1	< 0.1	< 0.1	60.	73.	< 0.1	< 0.1	4.1E-12	99	0	0
4.5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	64.	< 0.1	< 0.1	1.2E-12	100	0	0
4.5E	< 0.1	< 0.1	< 0.1	< 0.1	60.	73.	< 0.1	< 0.1	4.4E-12	100	0	0
4.5D	< 0.1	< 0.1	0.1	0.1	60.	100.	< 0.1	< 0.1	1.3E-11	100	0	0
4.5C	0.2	0.2	0.3	0.3	60.	150.	< 0.1	< 0.1	3.0E-11	100	0	0
4.5B	0.3	0.3	0.6	0.6	60.	220.	< 0.1	< 0.1	5.3E-11	100	0	0
4.5A	0.4	0.4	0.7	0.7	61.	250.	0.1	< 0.1	6.7E-11	100	0	0

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TABLE E2. k

OFFSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib: Plm	Plt	Grd
					Air Sample Background is 60 CPM							
4.5CL	0.5	0.5	0.8	0.8	61.	270.	0.1	< 0.1	7.1E-11	100	0	0
4.5a	0.4	0.4	0.7	0.7	61.	250.	0.1	< 0.1	6.7E-11	100	0	0
4.5b	0.3	0.3	0.6	0.6	60.	220.	< 0.1	< 0.1	5.3E-11	100	0	0
4.5c	0.2	0.2	0.3	0.3	60.	150.	< 0.1	< 0.1	3.0E-11	100	0	0
4.5d	< 0.1	< 0.1	0.1	0.1	60.	100.	< 0.1	< 0.1	1.3E-11	100	0	0
4.5e	< 0.1	< 0.1	< 0.1	< 0.1	60.	73.	< 0.1	< 0.1	4.4E-12	100	0	0
4.5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	64.	< 0.1	< 0.1	1.2E-12	100	0	0
1CL	9.5	9.5	16.	16.	63.	880.	2.4	0.2	3.2E-10	99	0	0
1b	8.7	8.7	15.	15.	63.	790.	2.2	0.2	2.7E-10	99	0	0
1c	6.7	6.7	11.	12.	62.	630.	1.7	0.2	2.1E-10	99	0	0
1d	3.6	3.6	6.1	6.2	61.	370.	0.9	< 0.1	1.2E-10	99	0	0
1e	1.7	1.7	2.9	3.0	61.	210.	0.4	< 0.1	5.6E-11	99	0	0
1f	0.1	0.1	0.2	0.2	60.	72.	< 0.1	< 0.1	4.4E-12	99	0	0
1.2F	0.7	0.7	1.2	1.2	60.	120.	0.2	< 0.1	2.3E-11	99	0	0
1.2E	1.7	1.7	2.9	3.0	61.	210.	0.4	< 0.1	5.6E-11	99	0	0
1.2D	3.6	3.6	6.1	6.2	61.	370.	0.9	< 0.1	1.2E-10	99	0	0
1.2C	6.3	6.4	11.	11.	62.	600.	1.6	0.2	2.1E-10	99	0	0
1.2B	7.1	7.1	12.	12.	62.	690.	1.8	0.2	2.4E-10	99	0	0
1.2A	7.9	7.9	13.	14.	62.	720.	2.0	0.2	2.6E-10	99	0	0
1.2CL	7.9	7.9	13.	14.	62.	730.	2.0	0.2	2.6E-10	99	0	0
1.2a	7.9	7.9	13.	14.	62.	720.	2.0	0.2	2.6E-10	99	0	0
1.2b	7.1	7.1	12.	12.	62.	690.	1.8	0.2	2.4E-10	99	0	0
1.2c	6.3	6.4	11.	11.	62.	600.	1.6	0.2	2.1E-10	99	0	0
1.2d	3.6	3.6	6.1	6.2	61.	370.	0.9	< 0.1	1.2E-10	99	0	0
1.2e	1.7	1.7	2.9	3.0	61.	210.	0.4	< 0.1	5.6E-11	99	0	0
1.2f	0.7	0.7	1.2	1.2	60.	120.	0.2	< 0.1	2.3E-11	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

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TABLE E2. k

OFFSITE SURVEY AND SAMPLING DATA (T = 06:00) (09:00)
(continued)

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.4E-01 8.9E-06 1.2E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 4.8 mRem/hr
Thyroid Dose Projection: 0.4 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 5.0 mRem/hr
at a distance of: 1.18 miles downwind

Maximum Thyroid Dose Commitment: 0.6 mRem/hr
at a distance of: 1.18 miles downwind

TABLE E2. 1

OFFSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
.5F	2.1	2.1	3.6	3.6	61.	61.	0.5	< 0.1	5.9E-11	99	0	0
.5E	4.4	4.4	7.4	7.4	61.	63.	1.1	< 0.1	1.2E-10	99	0	0
.5D	7.9	7.9	13.	13.	62.	65.	2.0	< 0.1	2.2E-10	99	0	0
.5C	11.	11.	19.	19.	63.	67.	2.8	< 0.1	3.1E-10	99	0	0
.5B	12.	12.	20.	20.	63.	67.	2.9	< 0.1	3.3E-10	99	0	0
.5A	12.	12.	20.	20.	63.	67.	3.0	< 0.1	3.3E-10	99	0	0
.5CL	12.	12.	20.	20.	63.	67.	3.0	< 0.1	3.3E-10	99	0	0
.5a	12.	12.	20.	20.	63.	67.	3.0	< 0.1	3.3E-10	99	0	0
.5b	12.	12.	20.	20.	63.	67.	2.9	< 0.1	3.3E-10	99	0	0
.5c	11.	11.	19.	19.	63.	67.	2.8	< 0.1	3.1E-10	99	0	0
.5d	7.9	7.9	13.	13.	62.	65.	2.0	< 0.1	2.2E-10	99	0	0
.5e	4.4	4.4	7.4	7.4	61.	63.	1.1	< 0.1	1.2E-10	99	0	0
.5f	2.1	2.1	3.6	3.6	61.	61.	0.5	< 0.1	5.9E-11	99	0	0
1F	0.6	0.6	1.1	1.1	60.	60.	0.2	< 0.1	1.8E-11	99	0	0
1E	1.5	1.5	2.5	2.5	60.	61.	0.4	< 0.1	4.1E-11	99	0	0
1D	3.0	3.0	5.0	5.1	61.	62.	0.7	< 0.1	8.3E-11	99	0	0
1C	5.0	5.0	8.5	8.5	61.	63.	1.3	< 0.1	1.4E-10	99	0	0
1B	5.5	5.5	9.3	9.3	61.	63.	1.4	< 0.1	1.5E-10	99	0	0
1A	5.8	5.8	9.8	9.8	61.	64.	1.5	< 0.1	1.6E-10	99	0	0
1a	5.8	5.8	9.8	9.8	61.	64.	1.5	< 0.1	1.6E-10	99	0	0
1.5F	0.3	0.3	0.5	0.5	60.	60.	< 0.1	< 0.1	7.5E-12	99	0	0
1.5E	0.7	0.7	1.2	1.2	60.	60.	0.2	< 0.1	1.9E-11	99	0	0
1.5D	1.5	1.5	2.6	2.7	60.	61.	0.4	< 0.1	4.3E-11	99	0	0
1.5C	2.8	2.8	4.7	4.9	61.	62.	0.7	< 0.1	7.8E-11	99	0	0
1.5B	3.4	3.4	5.8	6.0	61.	62.	0.9	< 0.1	9.6E-11	99	0	0
1.5A	3.7	3.7	6.3	6.5	61.	62.	0.9	< 0.1	1.0E-10	99	0	0
1.5CL	9.6	9.6	16.	17.	62.	1000.	2.4	0.4	2.2E-10	99	0	0
1.5a	3.7	3.7	6.3	6.5	61.	62.	0.9	< 0.1	1.0E-10	99	0	0
1.5b	3.4	3.4	5.8	6.0	61.	62.	0.9	< 0.1	9.6E-11	99	0	0
1.5c	2.8	2.8	4.7	4.9	61.	62.	0.7	< 0.1	7.8E-11	99	0	0
1.5d	1.5	1.5	2.6	2.7	60.	61.	0.4	< 0.1	4.3E-11	99	0	0

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TABLE E2. 1

OFFSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	0.7	0.7	1.2	1.2	60.	60.	0.2	< 0.1	1.9E-11	99	0	0
1.5f	0.3	0.3	0.5	0.5	60.	60.	< 0.1	< 0.1	7.5E-12	99	0	0
2F	0.3	0.3	0.6	0.6	60.	96.	< 0.1	< 0.1	8.3E-12	99	0	0
2E	1.0	1.0	1.6	1.7	60.	160.	0.2	< 0.1	2.3E-11	99	0	0
2D	2.3	2.3	3.9	4.0	60.	280.	0.6	< 0.1	5.5E-11	99	0	0
2C	4.6	4.6	7.8	8.0	61.	490.	1.2	0.2	1.0E-10	99	0	0
2B	6.1	6.1	10.	11.	61.	660.	1.5	0.2	1.4E-10	99	0	0
2A	6.5	6.5	11.	11.	61.	730.	1.6	0.3	1.6E-10	99	0	0
2CL	6.9	6.9	12.	12.	61.	750.	1.7	0.3	1.6E-10	99	0	0
2a	6.5	6.5	11.	11.	61.	730.	1.6	0.3	1.6E-10	99	0	0
2b	6.1	6.1	10.	11.	61.	660.	1.5	0.2	1.4E-10	99	0	0
2c	4.6	4.6	7.8	8.0	61.	490.	1.2	0.2	1.0E-10	99	0	0
2d	2.3	2.3	3.9	4.0	60.	280.	0.6	< 0.1	5.5E-11	99	0	0
2e	1.0	1.0	1.6	1.7	60.	160.	0.2	< 0.1	2.3E-11	99	0	0
2f	0.3	0.3	0.6	0.6	60.	96.	< 0.1	< 0.1	8.3E-12	99	0	0
2.5F	0.1	0.1	0.2	0.2	60.	79.	< 0.1	< 0.1	4.2E-12	99	0	0
2.5E	0.4	0.4	0.6	0.7	60.	120.	< 0.1	< 0.1	1.3E-11	99	0	0
2.5D	0.9	0.9	1.6	1.6	60.	210.	0.2	< 0.1	3.1E-11	99	0	0
2.5C	1.9	1.9	3.2	3.3	61.	360.	0.5	0.1	6.2E-11	99	0	0
2.5B	2.7	2.7	4.5	4.8	61.	490.	0.7	0.2	9.2E-11	99	0	0
2.5A	3.1	3.1	5.2	5.4	61.	550.	0.8	0.2	1.0E-10	99	0	0
2.5CL	3.2	3.2	5.4	5.7	61.	580.	0.8	0.2	1.1E-10	99	0	0
2.5a	3.1	3.1	5.2	5.4	61.	550.	0.8	0.2	1.0E-10	99	0	0
2.5b	2.7	2.7	4.5	4.8	61.	490.	0.7	0.2	9.2E-11	99	0	0
2.5c	1.9	1.9	3.2	3.3	61.	360.	0.5	0.1	6.2E-11	99	0	0
2.5d	0.9	0.9	1.6	1.6	60.	210.	0.2	< 0.1	3.1E-11	99	0	0
2.5e	0.4	0.4	0.6	0.7	60.	120.	< 0.1	< 0.1	1.3E-11	99	0	0
2.5f	0.1	0.1	0.2	0.2	60.	79.	< 0.1	< 0.1	4.2E-12	99	0	0
3F	< 0.1	< 0.1	0.1	0.1	60.	76.	< 0.1	< 0.1	3.4E-12	99	0	0
3E	0.3	0.3	0.4	0.4	60.	110.	< 0.1	< 0.1	1.1E-11	99	0	0

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TABLE E2. 1

OFFSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
3D	0.7	0.7	1.1	1.2	60.	190.	0.2	< 0.1	3.0E-11	99	0	0
3C	1.4	1.4	2.3	2.5	61.	330.	0.3	0.1	6.1E-11	99	0	0
3B	2.2	2.2	3.6	3.8	61.	480.	0.5	0.2	9.5E-11	99	0	0
3A	2.5	2.5	4.2	4.4	61.	550.	0.6	0.2	1.1E-10	99	0	0
3CL	2.7.	2.7	4.5	4.7	61.	580.	0.7	0.2	1.2E-10	99	0	0
3a	2.5	2.5	4.2	4.4	61.	550.	0.6	0.2	1.1E-10	99	0	0
3b	2.2	2.2	3.6	3.8	61.	480.	0.5	0.2	9.5E-11	99	0	0
3c	1.4	1.4	2.3	2.5	61.	330.	0.3	0.1	6.1E-11	99	0	0
3d	0.7	0.7	1.1	1.2	60.	190.	0.2	< 0.1	3.0E-11	99	0	0
3e	0.3	0.3	0.4	0.4	60.	110.	< 0.1	< 0.1	1.1E-11	99	0	0
3f	< 0.1	< 0.1	0.1	0.1	60.	76.	< 0.1	< 0.1	3.4E-12	99	0	0
4F	< 0.1	< 0.1	< 0.1	< 0.1	60.	71.	< 0.1	< 0.1	2.8E-12	99	0	0
4E	0.1	0.1	0.2	0.2	60.	99.	< 0.1	< 0.1	1.0E-11	99	0	0
4D	0.4	0.4	0.6	0.7	60.	170.	< 0.1	< 0.1	3.0E-11	99	0	0
4C	0.9	0.9	1.5	1.6	61.	310.	0.2	0.1	6.6E-11	99	0	0
4B	1.5	1.5	2.5	2.6	61.	480.	0.4	0.2	1.1E-10	99	0	0
4A	1.8	1.8	3.0	3.1	61.	570.	0.4	0.2	1.4E-10	99	0	0
4CL	1.9	1.9	3.2	3.4	61.	600.	0.5	0.2	1.4E-10	99	0	0
4a	1.8	1.8	3.0	3.1	61.	570.	0.4	0.2	1.4E-10	99	0	0
4b	1.5	1.5	2.5	2.6	61.	480.	0.4	0.2	1.1E-10	99	0	0
4c	0.9	0.9	1.5	1.6	61.	310.	0.2	0.1	6.6E-11	99	0	0
4d	0.4	0.4	0.6	0.7	60.	170.	< 0.1	< 0.1	3.0E-11	99	0	0
4e	0.1	0.1	0.2	0.2	60.	99.	< 0.1	< 0.1	1.0E-11	99	0	0
4f	< 0.1	< 0.1	< 0.1	< 0.1	60.	71.	< 0.1	< 0.1	2.8E-12	99	0	0
4.5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	69.	< 0.1	< 0.1	2.8E-12	99	0	0
4.5E	0.1	0.1	0.2	0.2	60.	96.	< 0.1	< 0.1	1.0E-11	99	0	0
4.5D	0.3	0.3	0.5	0.5	60.	160.	< 0.1	< 0.1	3.1E-11	99	0	0
4.5C	0.7	0.7	1.2	1.3	61.	300.	0.2	< 0.1	7.2E-11	99	0	0
4.5B	1.3	1.3	2.1	2.2	61.	490.	0.3	0.2	1.2E-10	99	0	0
4.5A	1.5	1.5	2.6	2.7	61.	600.	0.4	0.2	1.6E-10	99	0	0

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TABLE E2. 1

OFFSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib: Plm	Plt	Grd
					Air Sample Background is 60 CPM							
4.5CL	1.7	1.7	2.8	2.9	62.	630.	0.4	0.2	1.7E-10	99	0	0
4.5a	1.5	1.5	2.6	2.7	61.	600.	0.4	0.2	1.6E-10	99	0	0
4.5b	1.3	1.3	2.1	2.2	61.	490.	0.3	0.2	1.2E-10	99	0	0
4.5c	0.7	0.7	1.2	1.3	61.	300.	0.2	< 0.1	7.2E-11	99	0	0
4.5d	0.3	0.3	0.5	0.5	60.	160.	< 0.1	< 0.1	3.1E-11	99	0	0
4.5e	0.1	0.1	0.2	0.2	60.	96.	< 0.1	< 0.1	1.0E-11	99	0	0
4.5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	69.	< 0.1	< 0.1	2.8E-12	99	0	0
5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	67.	< 0.1	< 0.1	2.2E-12	99	0	0
5E	< 0.1	< 0.1	0.1	0.1	60.	88.	< 0.1	< 0.1	8.4E-12	99	0	0
5D	0.2	0.2	0.4	0.4	60.	150.	< 0.1	< 0.1	2.7E-11	99	0	0
5C	0.5	0.5	0.8	0.9	61.	270.	0.1	< 0.1	6.2E-11	99	0	0
5B	0.9	0.9	1.6	1.6	61.	450.	0.2	0.2	1.1E-10	99	0	0
5A	1.2	1.2	1.9	2.0	61.	550.	0.3	0.2	1.4E-10	99	0	0
5CL	1.3	1.3	2.1	2.2	61.	580.	0.3	0.2	1.5E-10	99	0	0
5a	1.2	1.2	1.9	2.0	61.	550.	0.3	0.2	1.4E-10	99	0	0
5b	0.9	0.9	1.6	1.6	61.	450.	0.2	0.2	1.1E-10	99	0	0
5c	0.5	0.5	0.8	0.9	61.	270.	0.1	< 0.1	6.2E-11	99	0	0
5d	0.2	0.2	0.4	0.4	60.	150.	< 0.1	< 0.1	2.7E-11	99	0	0
5e	< 0.1	< 0.1	0.1	0.1	60.	88.	< 0.1	< 0.1	8.4E-12	99	0	0
5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	67.	< 0.1	< 0.1	2.2E-12	99	0	0
1CL	5.9	5.9	10.	10.	61.	64.	1.5	< 0.1	1.7E-10	99	0	0
1b	5.3	5.3	8.9	9.2	61.	63.	1.3	< 0.1	1.5E-10	99	0	0
1c	4.1	4.1	6.9	7.1	61.	62.	1.0	< 0.1	1.1E-10	99	0	0
1d	2.2	2.2	3.7	3.9	61.	61.	0.6	< 0.1	6.2E-11	99	0	0
1e	1.0	1.0	1.8	1.8	60.	61.	0.3	< 0.1	2.9E-11	99	0	0
1f	< 0.1	< 0.1	0.1	0.1	60.	60.	< 0.1	< 0.1	2.3E-12	99	0	0
1.2F	0.4	0.4	0.7	0.8	60.	60.	0.1	< 0.1	1.2E-11	99	0	0
1.2E	1.1	1.1	1.8	1.9	60.	61.	0.3	< 0.1	3.0E-11	99	0	0
1.2D	2.2	2.2	3.8	3.9	61.	61.	0.6	< 0.1	6.2E-11	99	0	0
1.2C	3.9	3.9	6.6	6.8	61.	62.	1.0	< 0.1	1.1E-10	99	0	0

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TABLE E2. 1

OFFSITE SURVEY AND SAMPLING DATA (T = 06:30) (09:30)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
1.2B	4.5	4.5	7.6	7.8	61.	63.	1.1	< 0.1	1.2E-10	99	0	0
1.2A	4.8	4.8	8.1	8.4	61.	63.	1.2	< 0.1	1.3E-10	99	0	0
1.2CL	4.9	4.9	8.2	8.5	61.	63.	1.2	< 0.1	1.4E-10	99	0	0
1.2a	4.8	4.8	8.1	8.4	61.	63.	1.2	< 0.1	1.3E-10	99	0	0
1.2b	4.5	4.5	7.6	7.8	61.	63.	1.1	< 0.1	1.2E-10	99	0	0
1.2c	3.9	3.9	6.6	6.8	61.	62.	1.0	< 0.1	1.1E-10	99	0	0
1.2d	2.2	2.2	3.8	3.9	61.	61.	0.6	< 0.1	6.2E-11	99	0	0
1.2e	1.1	1.1	1.8	1.9	60.	61.	0.3	< 0.1	3.0E-11	99	0	0
1.2f	0.4	0.4	0.7	0.8	60.	60.	0.1	< 0.1	1.2E-11	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.3E-01 8.8E-06 1.1E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 3.1 mRem/hr
Thyroid Dose Projection: 0.3 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 4.5 mRem/hr
at a distance of: 1.18 miles downwind

Maximum Thyroid Dose Commitment: 0.4 mRem/hr
at a distance of: 1.18 miles downwind

TABLE E2. m

OFFSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
.5C	0.2	0.2	0.4	0.5	60.	60.	< 0.1	< 0.1	4.1E-12	98	0	1
.5B	5.2	5.2	8.9	8.9	61.	62.	1.3	< 0.1	9.0E-11	99	0	0
.5A	9.5	9.5	16.	16.	61.	64.	2.4	< 0.1	1.6E-10	99	0	0
.5CL	10.	10.	17.	17.	62.	65.	2.5	< 0.1	1.7E-10	99	0	0
.5a	9.5	9.5	16.	16.	61.	64.	2.4	< 0.1	1.6E-10	99	0	0
.5b	5.2	5.2	8.9	8.9	61.	62.	1.3	< 0.1	9.0E-11	99	0	0
.5c	0.2	0.2	0.4	0.5	60.	60.	< 0.1	< 0.1	4.1E-12	98	0	1
1E	< 0.1	< 0.1	0.1	0.1	60.	60.	< 0.1	< 0.1	1.2E-12	99	0	0
1D	0.4	0.4	0.7	0.7	60.	60.	0.1	< 0.1	7.4E-12	99	0	0
1C	1.6	1.6	2.7	2.7	60.	61.	0.4	< 0.1	2.8E-11	99	0	0
1B	3.4	3.4	5.8	5.8	61.	62.	0.9	< 0.1	5.9E-11	99	0	0
1A	4.3	4.3	7.3	7.3	61.	62.	1.1	< 0.1	7.4E-11	99	0	0
1a	4.3	4.3	7.3	7.3	61.	62.	1.1	< 0.1	7.4E-11	99	0	0
1.5E	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.4E-12	99	0	0
1.5D	0.3	0.3	0.6	0.6	60.	60.	< 0.1	< 0.1	5.9E-12	99	0	0
1.5C	1.0	1.0	1.7	1.8	60.	60.	0.3	< 0.1	1.8E-11	99	0	0
1.5B	2.0	2.0	3.3	3.5	60.	61.	0.5	< 0.1	3.4E-11	99	0	0
1.5A	2.6	2.6	4.3	4.5	60.	61.	0.6	< 0.1	4.4E-11	99	0	0
1.5CL	6.3	6.3	11.	11.	61.	270.	1.6	0.2	1.2E-10	99	0	0
1.5a	2.6	2.6	4.3	4.5	60.	61.	0.6	< 0.1	4.4E-11	99	0	0
1.5b	2.0	2.0	3.3	3.5	60.	61.	0.5	< 0.1	3.4E-11	99	0	0
1.5c	1.0	1.0	1.7	1.8	60.	60.	0.3	< 0.1	1.8E-11	99	0	0
1.5d	0.3	0.3	0.6	0.6	60.	60.	< 0.1	< 0.1	5.9E-12	99	0	0
1.5e	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.4E-12	99	0	0
2F	0.1	0.1	0.2	0.3	60.	68.	< 0.1	< 0.1	3.1E-12	99	0	0
2E	0.4	0.4	0.7	0.8	60.	81.	0.1	< 0.1	9.1E-12	99	0	0
2D	1.1	1.1	1.9	1.9	60.	110.	0.3	< 0.1	2.3E-11	99	0	0
2C	2.3	2.3	3.9	4.1	60.	160.	0.6	< 0.1	4.9E-11	99	0	0
2B	3.5	3.5	5.9	6.2	61.	190.	0.9	0.1	7.2E-11	99	0	0
2A	4.2	4.2	7.1	7.3	61.	210.	1.0	0.1	8.4E-11	99	0	0
2CL	4.5	4.5	7.6	7.8	61.	210.	1.1	0.1	8.9E-11	99	0	0

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TABLE E2. m

OFFSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
2a	4.2	4.2	7.1	7.3	61.	210.	1.0	0.1	8.4E-11	99	0	0
2b	3.5	3.5	5.9	6.2	61.	190.	0.9	0.1	7.2E-11	99	0	0
2c	2.3	2.3	3.9	4.1	60.	160.	0.6	< 0.1	4.9E-11	99	0	0
2d	1.1	1.1	1.9	1.9	60.	110.	0.3	< 0.1	2.3E-11	99	0	0
2e	0.4	0.4	0.7	0.8	60.	81.	0.1	< 0.1	9.1E-12	99	0	0
2f	0.1	0.1	0.2	0.3	60.	68.	< 0.1	< 0.1	3.1E-12	99	0	0
2.5F	< 0.1	< 0.1	0.1	0.2	60.	68.	< 0.1	< 0.1	2.4E-12	99	0	0
2.5E	0.3	0.3	0.5	0.5	60.	84.	< 0.1	< 0.1	7.6E-12	99	0	0
2.5D	0.7	0.7	1.2	1.3	60.	120.	0.2	< 0.1	1.9E-11	99	0	0
2.5C	1.7	1.7	2.8	3.0	60.	180.	0.4	< 0.1	4.2E-11	99	0	0
2.5B	2.6	2.6	4.4	4.7	61.	230.	0.7	0.1	6.4E-11	99	0	0
2.5A	3.2	3.2	5.4	5.6	61.	260.	0.8	0.2	7.7E-11	99	0	0
2.5CL	3.4	3.4	5.7	6.0	61.	260.	0.8	0.2	8.2E-11	99	0	0
2.5a	3.2	3.2	5.4	5.6	61.	260.	0.8	0.2	7.7E-11	99	0	0
2.5b	2.6	2.6	4.4	4.7	61.	230.	0.7	0.1	6.4E-11	99	0	0
2.5c	1.7	1.7	2.8	3.0	60.	180.	0.4	< 0.1	4.2E-11	99	0	0
2.5d	0.7	0.7	1.2	1.3	60.	120.	0.2	< 0.1	1.9E-11	99	0	0
2.5e	0.3	0.3	0.5	0.5	60.	84.	< 0.1	< 0.1	7.6E-12	99	0	0
2.5f	< 0.1	< 0.1	0.1	0.2	60.	68.	< 0.1	< 0.1	2.4E-12	99	0	0
3F	0.1	0.1	0.2	0.2	60.	76.	< 0.1	< 0.1	3.5E-12	99	0	0
3E	0.4	0.4	0.7	0.7	60.	110.	0.1	< 0.1	1.1E-11	99	0	0
3D	1.1	1.1	1.9	2.0	60.	200.	0.3	0.1	3.0E-11	99	0	0
3C	2.5	2.5	4.2	4.4	61.	360.	0.6	0.2	6.4E-11	99	0	0
3B	4.0	4.0	6.8	7.0	61.	510.	1.0	0.4	1.0E-10	99	0	0
3A	4.7	4.7	8.0	8.2	61.	570.	1.2	0.4	1.2E-10	99	0	0
3CL	5.2	5.2	8.8	9.1	61.	610.	1.3	0.5	1.3E-10	99	0	0
3a	4.7	4.7	8.0	8.2	61.	570.	1.2	0.4	1.2E-10	99	0	0
3b	4.0	4.0	6.8	7.0	61.	510.	1.0	0.4	1.0E-10	99	0	0
3c	2.5	2.5	4.2	4.4	61.	360.	0.6	0.2	6.4E-11	99	0	0
3d	1.1	1.1	1.9	2.0	60.	200.	0.3	0.1	3.0E-11	99	0	0

CONTINUED ON NEXT PAGE

TABLE E2. m

OFFSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
3e	0.4	0.4	0.7	0.7	60.	110.	0.1	< 0.1	1.1E-11	99	0	0
3f	0.1	0.1	0.2	0.2	60.	76.	< 0.1	< 0.1	3.5E-12	99	0	0
4F	< 0.1	< 0.1	< 0.1	< 0.1	60.	67.	< 0.1	< 0.1	1.6E-12	99	0	0
4E	0.1	0.1	0.2	0.2	60.	87.	< 0.1	< 0.1	5.8E-12	99	0	0
4D	0.4	0.4	0.6	0.6	60.	140.	< 0.1	< 0.1	1.6E-11	99	0	0
4C	0.8	0.8	1.4	1.5	60.	240.	0.2	0.1	3.7E-11	99	0	0
4B	1.3	1.3	2.3	2.4	61.	360.	0.3	0.2	6.1E-11	99	0	0
4A	1.6	1.6	2.8	2.9	61.	420.	0.4	0.3	7.5E-11	99	0	0
4CL	1.8	1.8	3.0	3.1	61.	450.	0.4	0.3	8.0E-11	99	0	0
4a	1.6	1.6	2.8	2.9	61.	420.	0.4	0.3	7.5E-11	99	0	0
4b	1.3	1.3	2.3	2.4	61.	360.	0.3	0.2	6.1E-11	99	0	0
4c	0.8	0.8	1.4	1.5	60.	240.	0.2	0.1	3.7E-11	99	0	0
4d	0.4	0.4	0.6	0.6	60.	140.	< 0.1	< 0.1	1.6E-11	99	0	0
4e	0.1	0.1	0.2	0.2	60.	87.	< 0.1	< 0.1	5.8E-12	99	0	0
4f	< 0.1	< 0.1	< 0.1	< 0.1	60.	67.	< 0.1	< 0.1	1.6E-12	99	0	0
4.5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	1.5E-12	99	0	0
4.5E	< 0.1	< 0.1	0.2	0.2	60.	84.	< 0.1	< 0.1	5.8E-12	99	0	0
4.5D	0.3	0.3	0.5	0.5	60.	130.	< 0.1	< 0.1	1.8E-11	99	0	0
4.5C	0.7	0.7	1.1	1.2	60.	220.	0.2	0.1	4.0E-11	99	0	0
4.5B	1.2	1.2	2.0	2.1	61.	360.	0.3	0.2	6.9E-11	99	0	0
4.5A	1.5	1.5	2.5	2.6	61.	420.	0.4	0.3	8.7E-11	99	0	0
4.5CL	1.5	1.5	2.6	2.7	61.	450.	0.4	0.3	9.1E-11	99	0	0
4.5a	1.5	1.5	2.5	2.6	61.	420.	0.4	0.3	8.7E-11	99	0	0
4.5b	1.2	1.2	2.0	2.1	61.	360.	0.3	0.2	6.9E-11	99	0	0
4.5c	0.7	0.7	1.1	1.2	60.	220.	0.2	0.1	4.0E-11	99	0	0
4.5d	0.3	0.3	0.5	0.5	60.	130.	< 0.1	< 0.1	1.8E-11	99	0	0
4.5e	< 0.1	< 0.1	0.2	0.2	60.	84.	< 0.1	< 0.1	5.8E-12	99	0	0
4.5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	1.5E-12	99	0	0
5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	1.5E-12	99	0	0
5E	< 0.1	< 0.1	0.1	0.1	60.	82.	< 0.1	< 0.1	5.9E-12	99	0	0

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TABLE E2. m

OFFSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	percent contrib Grd
					Air Sample Background is 60 CPM							
5D	0.2	0.2	0.4	0.4	60.	130.	< 0.1	< 0.1	1.8E-11	99	0	0
5C	0.6	0.6	0.9	1.0	60.	220.	0.1	0.1	4.3E-11	99	0	0
5B	1.0	1.0	1.7	1.8	61.	360.	0.3	0.2	7.9E-11	99	0	0
5A	1.3	1.3	2.1	2.2	61.	450.	0.3	0.3	9.9E-11	99	0	0
5CL	1.4	1.4	2.3	2.4	61.	480.	0.3	0.3	1.1E-10	99	0	0
5a	1.3	1.3	2.1	2.2	61.	450.	0.3	0.3	9.9E-11	99	0	0
5b	1.0	1.0	1.7	1.8	61.	360.	0.3	0.2	7.9E-11	99	0	0
5c	0.6	0.6	0.9	1.0	60.	220.	0.1	0.1	4.3E-11	99	0	0
5d	0.2	0.2	0.4	0.4	60.	130.	< 0.1	< 0.1	1.8E-11	99	0	0
5e	< 0.1	< 0.1	0.1	0.1	60.	82.	< 0.1	< 0.1	5.9E-12	99	0	0
5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	1.5E-12	99	0	0
6F	< 0.1	< 0.1	< 0.1	< 0.1	60.	64.	< 0.1	< 0.1	1.2E-12	99	0	0
6E	< 0.1	< 0.1	< 0.1	< 0.1	60.	78.	< 0.1	< 0.1	5.3E-12	99	0	0
6D	0.1	0.1	0.2	0.2	60.	120.	< 0.1	< 0.1	1.8E-11	99	0	0
6C	0.3	0.4	0.6	0.6	60.	210.	< 0.1	0.1	4.5E-11	99	0	0
6B	0.7	0.7	1.1	1.1	61.	360.	0.2	0.2	8.7E-11	99	0	0
6A	0.9	0.9	1.4	1.5	61.	450.	0.2	0.3	1.1E-10	99	0	0
6CL	0.9	0.9	1.6	1.6	61.	480.	0.2	0.3	1.2E-10	99	0	0
6a	0.9	0.9	1.4	1.5	61.	450.	0.2	0.3	1.1E-10	99	0	0
6b	0.7	0.7	1.1	1.1	61.	360.	0.2	0.2	8.7E-11	99	0	0
6c	0.3	0.4	0.6	0.6	60.	210.	< 0.1	0.1	4.5E-11	99	0	0
6d	0.1	0.1	0.2	0.2	60.	120.	< 0.1	< 0.1	1.8E-11	99	0	0
6e	< 0.1	< 0.1	< 0.1	< 0.1	60.	78.	< 0.1	< 0.1	5.3E-12	99	0	0
6f	< 0.1	< 0.1	< 0.1	< 0.1	60.	64.	< 0.1	< 0.1	1.2E-12	99	0	0
1CL	4.7	4.7	7.9	8.1	61.	62.	1.2	< 0.1	8.0E-11	99	0	0
1b	2.8	2.8	4.7	4.9	60.	61.	0.7	< 0.1	4.7E-11	99	0	0
1c	1.0	1.0	1.6	1.8	60.	60.	0.2	< 0.1	1.6E-11	99	0	0
1d	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	3.7E-12	99	0	0
1e	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	5.8E-13	97	0	2
1.2E	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.5E-12	99	0	0

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TABLE E2. m

OFFSITE SURVEY AND SAMPLING DATA (T = 07:00) (10:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
1.2D	0.4	0.4	0.7	0.8	60.	60.	0.1	< 0.1	7.1E-12	99	0	0
1.2C	1.3	1.4	2.3	2.4	60.	61.	0.3	< 0.1	2.3E-11	99	0	0
1.2B	2.7	2.7	4.6	4.7	60.	61.	0.7	< 0.1	4.6E-11	99	0	0
1.2A	3.4	3.4	5.8	6.0	61.	62.	0.9	< 0.1	5.9E-11	99	0	0
1.2CL	3.7	3.7	6.3	6.5	61.	62.	0.9	< 0.1	6.4E-11	99	0	0
1.2a	3.4	3.4	5.8	6.0	61.	62.	0.9	< 0.1	5.9E-11	99	0	0
1.2b	2.7	2.7	4.6	4.7	60.	61.	0.7	< 0.1	4.6E-11	99	0	0
1.2c	1.3	1.4	2.3	2.4	60.	61.	0.3	< 0.1	2.3E-11	99	0	0
1.2d	0.4	0.4	0.7	0.8	60.	60.	0.1	< 0.1	7.1E-12	99	0	0
1.2e	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.5E-12	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class E

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.2E-01 4.9E-06 9.0E-06
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 3.6 mRem/hr
Thyroid Dose Projection: 0.2 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 3.6 mRem/hr
at a distance of: 1.20 miles downwind

Maximum Thyroid Dose Commitment: 0.2 mRem/hr
at a distance of: 4.47 miles downwind

TABLE E2. n

OFFSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD percent dose contrib: Plm	Plt	Grd
					Air Sample Background is 60 CPM							
.5F	0.7	0.7	1.3	1.3	60.	61.	0.2	< 0.1	3.7E-11	99	0	0
.5E	0.8	0.8	1.4	1.4	60.	61.	0.2	< 0.1	4.0E-11	99	0	0
.5D	0.9	0.9	1.4	1.5	60.	61.	0.2	< 0.1	4.2E-11	99	0	0
.5C	0.9	0.9	1.5	1.5	60.	61.	0.2	< 0.1	4.4E-11	99	0	0
.5B	0.9	0.9	1.6	1.6	60.	61.	0.2	< 0.1	4.6E-11	99	0	0
.5A	0.9	0.9	1.6	1.6	60.	61.	0.2	< 0.1	4.6E-11	99	0	0
.5CL	0.9	0.9	1.6	1.6	60.	61.	0.2	< 0.1	4.7E-11	99	0	0
.5a	0.9	0.9	1.6	1.6	60.	61.	0.2	< 0.1	4.6E-11	99	0	0
.5b	0.9	0.9	1.6	1.6	60.	61.	0.2	< 0.1	4.6E-11	99	0	0
.5c	0.9	0.9	1.5	1.5	60.	61.	0.2	< 0.1	4.4E-11	99	0	0
.5d	0.9	0.9	1.4	1.5	60.	61.	0.2	< 0.1	4.2E-11	99	0	0
.5e	0.8	0.8	1.4	1.4	60.	61.	0.2	< 0.1	4.0E-11	99	0	0
.5f	0.7	0.7	1.3	1.3	60.	61.	0.2	< 0.1	3.7E-11	99	0	0
1F	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	9.5E-12	99	0	0
1E	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	1.0E-11	99	0	0
1D	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	1.1E-11	99	0	0
1C	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	1.2E-11	99	0	0
1B	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	1.2E-11	99	0	0
1A	0.2	0.3	0.4	0.4	60.	60.	< 0.1	< 0.1	1.2E-11	99	0	0
1a	0.2	0.3	0.4	0.4	60.	60.	< 0.1	< 0.1	1.2E-11	99	0	0
1.5F	< 0.1	< 0.1	0.1	0.1	60.	60.	< 0.1	< 0.1	4.2E-12	99	0	0
1.5E	< 0.1	< 0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.6E-12	99	0	0
1.5D	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.9E-12	99	0	0
1.5C	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	5.2E-12	98	0	1
1.5B	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	5.4E-12	98	0	1
1.5A	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	5.6E-12	98	0	1
1.5CL	0.1	0.1	0.2	0.4	60.	60.	< 0.1	< 0.1	5.6E-12	96	0	3
1.5a	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	5.6E-12	98	0	1
1.5b	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	5.4E-12	98	0	1
1.5c	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	5.2E-12	98	0	1
1.5d	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.9E-12	99	0	0

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TABLE E2. n

OFFSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	ground (mR/hr)	OPEN WINDOW waist (mR/hr)	ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose contrib Plm	percent Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	< 0.1	< 0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.6E-12	99	0	0
1.5f	< 0.1	< 0.1	0.1	0.1	60.	60.	< 0.1	< 0.1	4.2E-12	99	0	0
2F	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	2.3E-12	99	0	0
2E	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	2.6E-12	99	0	0
2D	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	2.8E-12	98	0	1
2C	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	2.9E-12	97	0	3
2B	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	3.1E-12	96	0	3
2A	< 0.1	< 0.1	0.1	0.3	60.	60.	< 0.1	< 0.1	3.2E-12	95	0	4
2CL	< 0.1	< 0.1	0.1	0.3	60.	60.	< 0.1	< 0.1	3.2E-12	95	0	4
2a	< 0.1	< 0.1	0.1	0.3	60.	60.	< 0.1	< 0.1	3.2E-12	95	0	4
2b	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	3.1E-12	96	0	3
2c	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	2.9E-12	97	0	3
2d	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	2.8E-12	98	0	1
2e	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	2.6E-12	99	0	0
2f	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	2.3E-12	99	0	0
2.5E	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.6E-12	98	0	1
2.5D	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	1.8E-12	97	0	2
2.5C	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	95	0	4
2.5B	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	2.0E-12	93	0	6
2.5A	< 0.1	< 0.1	< 0.1	0.3	60.	60.	< 0.1	< 0.1	2.0E-12	92	0	7
2.5CL	< 0.1	< 0.1	< 0.1	0.3	60.	60.	< 0.1	< 0.1	2.1E-12	92	0	7
2.5a	< 0.1	< 0.1	< 0.1	0.3	60.	60.	< 0.1	< 0.1	2.0E-12	92	0	7
2.5b	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	2.0E-12	93	0	6
2.5c	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	95	0	4
2.5d	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	1.8E-12	97	0	2
2.5e	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.6E-12	98	0	1
3C	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.3E-12	93	0	6
3B	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.4E-12	91	0	9
3A	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.4E-12	89	0	10
3CL	< 0.1	< 0.1	< 0.1	0.3	60.	60.	< 0.1	< 0.1	1.4E-12	89	0	10

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TABLE E2. n

OFFSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
3a	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.4E-12	89	0	10
3b	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.4E-12	91	0	9
3c	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.3E-12	93	0	6
4F	< 0.1	< 0.1	0.1	0.1	60.	69.	< 0.1	< 0.1	2.1E-12	99	0	0
4E	0.2	0.2	0.3	0.4	60.	90.	< 0.1	< 0.1	6.3E-12	99	0	0
4D	0.5	0.5	0.9	1.0	60.	150.	0.1	< 0.1	1.6E-11	99	0	0
4C	1.3	1.3	2.1	2.2	60.	250.	0.3	0.2	3.6E-11	99	0	0
4B	2.1	2.1	3.6	3.7	61.	370.	0.5	0.3	6.1E-11	99	0	0
4A	2.5	2.5	4.3	4.5	61.	450.	0.6	0.3	7.3E-11	99	0	0
4CL	2.7	2.7	4.6	4.8	61.	480.	0.7	0.3	7.7E-11	99	0	0
4a	2.5	2.5	4.3	4.5	61.	450.	0.6	0.3	7.3E-11	99	0	0
4b	2.1	2.1	3.6	3.7	61.	370.	0.5	0.3	6.1E-11	99	0	0
4c	1.3	1.3	2.1	2.2	60.	250.	0.3	0.2	3.6E-11	99	0	0
4d	0.5	0.5	0.9	1.0	60.	150.	0.1	< 0.1	1.6E-11	99	0	0
4e	0.2	0.2	0.3	0.4	60.	90.	< 0.1	< 0.1	6.3E-12	99	0	0
4f	< 0.1	< 0.1	0.1	0.1	60.	69.	< 0.1	< 0.1	2.1E-12	99	0	0
4.5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	67.	< 0.1	< 0.1	1.8E-12	99	0	0
4.5E	0.2	0.2	0.3	0.3	60.	85.	< 0.1	< 0.1	5.4E-12	99	0	0
4.5D	0.4	0.4	0.7	0.8	60.	130.	0.1	< 0.1	1.5E-11	99	0	0
4.5C	1.0	1.0	1.7	1.8	60.	240.	0.3	0.1	3.3E-11	99	0	0
4.5B	1.8	1.8	3.1	3.2	61.	360.	0.5	0.2	5.9E-11	99	0	0
4.5A	2.2	2.2	3.7	3.9	61.	430.	0.6	0.3	7.4E-11	99	0	0
4.5CL	2.4	2.4	4.1	4.2	61.	460.	0.6	0.3	7.9E-11	99	0	0
4.5a	2.2	2.2	3.7	3.9	61.	430.	0.6	0.3	7.4E-11	99	0	0
4.5b	1.8	1.8	3.1	3.2	61.	360.	0.5	0.2	5.9E-11	99	0	0
4.5c	1.0	1.0	1.7	1.8	60.	240.	0.3	0.1	3.3E-11	99	0	0
4.5d	0.4	0.4	0.7	0.8	60.	130.	0.1	< 0.1	1.5E-11	99	0	0
4.5e	0.2	0.2	0.3	0.3	60.	85.	< 0.1	< 0.1	5.4E-12	99	0	0
4.5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	67.	< 0.1	< 0.1	1.8E-12	99	0	0
5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	1.1E-12	99	0	.0

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TABLE E2. n

OFFSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
5E	0.1	0.1	0.2	0.2	60.	85.	< 0.1	< 0.1	4.4E-12	99	0	0
5D	0.4	0.4	0.7	0.7	60.	130.	< 0.1	< 0.1	1.4E-11	99	0	0
5C	1.0	1.0	1.7	1.7	60.	240.	0.2	0.1	3.5E-11	99	0	0
5B	1.9	1.9	3.2	3.3	61.	390.	0.5	0.3	6.3E-11	99	0	0
5A	2.5	2.5	4.2	4.3	61.	490.	0.6	0.4	8.1E-11	99	0	0
5CL	2.6	2.6	4.4	4.5	61.	510.	0.7	0.4	8.7E-11	99	0	0
5a	2.5	2.5	4.2	4.3	61.	490.	0.6	0.4	8.1E-11	99	0	0
5b	1.9	1.9	3.2	3.3	61.	390.	0.5	0.3	6.3E-11	99	0	0
5c	1.0	1.0	1.7	1.7	60.	240.	0.2	0.1	3.5E-11	99	0	0
5d	0.4	0.4	0.7	0.7	60.	130.	< 0.1	< 0.1	1.4E-11	99	0	0
5e	0.1	0.1	0.2	0.2	60.	85.	< 0.1	< 0.1	4.4E-12	99	0	0
5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	1.1E-12	99	0	0
6F	< 0.1	< 0.1	< 0.1	< 0.1	60.	63.	< 0.1	< 0.1	8.9E-13	99	0	0
6E	< 0.1	< 0.1	< 0.1	< 0.1	60.	75.	< 0.1	< 0.1	3.8E-12	99	0	0
6D	0.2	0.2	0.3	0.3	60.	110.	< 0.1	< 0.1	1.3E-11	99	0	0
6C	0.5	0.5	0.9	0.9	60.	190.	0.1	0.1	3.3E-11	99	0	0
6B	1.0	1.0	1.7	1.7	61.	300.	0.2	0.2	6.4E-11	99	0	0
6A	1.3	1.3	2.2	2.3	61.	390.	0.3	0.3	8.4E-11	99	0	0
6CL	1.4	1.5	2.5	2.5	61.	420.	0.4	0.3	9.1E-11	99	0	0
6a	1.3	1.3	2.2	2.3	61.	390.	0.3	0.3	8.4E-11	99	0	0
6b	1.0	1.0	1.7	1.7	61.	300.	0.2	0.2	6.4E-11	99	0	0
6c	0.5	0.5	0.9	0.9	60.	190.	0.1	0.1	3.3E-11	99	0	0
6d	0.2	0.2	0.3	0.3	60.	110.	< 0.1	< 0.1	1.3E-11	99	0	0
6e	< 0.1	< 0.1	< 0.1	< 0.1	60.	75.	< 0.1	< 0.1	3.8E-12	99	0	0
6f	< 0.1	< 0.1	< 0.1	< 0.1	60.	63.	< 0.1	< 0.1	8.9E-13	99	0	0
7F	< 0.1	< 0.1	< 0.1	< 0.1	60.	63.	< 0.1	< 0.1	7.4E-13	99	0	0
7E	< 0.1	< 0.1	< 0.1	< 0.1	60.	72.	< 0.1	< 0.1	3.5E-12	99	0	0
7D	< 0.1	< 0.1	0.2	0.2	60.	100.	< 0.1	< 0.1	1.3E-11	99	0	0
7C	0.2	0.2	0.4	0.4	60.	180.	< 0.1	< 0.1	3.3E-11	99	0	0
7B	0.5	0.5	0.9	0.9	61.	300.	0.1	0.2	6.8E-11	99	0	0

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TABLE E2. n

OFFSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)
(continued)

FIELD MONITOR POINT	MONITOR READINGS CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
7A	0.7	0.7	1.2	1.2	61.	370.	0.2	0.3	9.1E-11	99	0	0
7CL	0.8	0.8	1.3	1.3	61.	400.	0.2	0.3	9.9E-11	99	0	0
7a	0.7	0.7	1.2	1.2	61.	370.	0.2	0.3	9.1E-11	99	0	0
7b	0.5	0.5	0.9	0.9	61.	300.	0.1	0.2	6.8E-11	99	0	0
7c	0.2	0.2	0.4	0.4	60.	180.	< 0.1	< 0.1	3.3E-11	99	0	0
7d	< 0.1	< 0.1	0.2	0.2	60.	100.	< 0.1	< 0.1	1.3E-11	99	0	0
7e	< 0.1	< 0.1	< 0.1	< 0.1	60.	72.	< 0.1	< 0.1	3.5E-12	99	0	0
7f	< 0.1	< 0.1	< 0.1	< 0.1	60.	63.	< 0.1	< 0.1	7.4E-13	99	0	0
1CL	0.3	0.3	0.4	0.6	60.	60.	< 0.1	< 0.1	1.2E-11	98	0	1
1b	0.2	0.2	0.4	0.5	60.	60.	< 0.1	< 0.1	1.2E-11	98	0	1
1c	0.2	0.2	0.4	0.5	60.	60.	< 0.1	< 0.1	1.1E-11	99	0	0
1d	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	1.1E-11	99	0	0
1e	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	9.8E-12	99	0	0
1f	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	7.2E-12	99	0	0
1.2F	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	6.5E-12	99	0	0
1.2E	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	7.1E-12	99	0	0
1.2D	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	7.7E-12	99	0	0
1.2C	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.1E-12	98	0	1
1.2B	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.4E-12	98	0	1
1.2A	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.6E-12	98	0	1
1.2CL	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.7E-12	98	0	1
1.2a	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.6E-12	98	0	1
1.2b	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.4E-12	98	0	1
1.2c	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	8.1E-12	98	0	1
1.2d	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	7.7E-12	99	0	0
1.2e	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	7.1E-12	99	0	0
1.2f	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	6.5E-12	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

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TABLE E2. n

OFFSITE SURVEY AND SAMPLING DATA (T = 07:30) (10:30)
(continued)

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class B

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.2E-01 1.3E-05 1.6E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 0.2 mRem/hr
Thyroid Dose Projection: < 0.1 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 1.1 mRem/hr
at a distance of: 2.98 miles downwind

Maximum Thyroid Dose Commitment: 0.2 mRem/hr
at a distance of: 5.53 miles downwind

TABLE E2. o

OFFSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
.5F	0.7	0.7	1.2	1.2	60.	61.	0.2	< 0.1	2.2E-11	99	0	0
.5E	0.7	0.7	1.3	1.3	60.	61.	0.2	< 0.1	2.4E-11	99	0	0
.5D	0.8	0.8	1.3	1.4	60.	61.	0.2	< 0.1	2.6E-11	99	0	0
.5C	0.8	0.8	1.4	1.4	60.	61.	0.2	< 0.1	2.7E-11	99	0	0
.5B	0.9	0.9	1.4	1.5	60.	61.	0.2	< 0.1	2.8E-11	99	0	0
.5A	0.9	0.9	1.5	1.5	60.	61.	0.2	< 0.1	2.8E-11	99	0	0
.5CL	0.9	0.9	1.5	1.5	60.	61.	0.2	< 0.1	2.8E-11	99	0	0
.5a	0.9	0.9	1.5	1.5	60.	61.	0.2	< 0.1	2.8E-11	99	0	0
.5b	0.9	0.9	1.4	1.5	60.	61.	0.2	< 0.1	2.8E-11	99	0	0
.5c	0.8	0.8	1.4	1.4	60.	61.	0.2	< 0.1	2.7E-11	99	0	0
.5d	0.8	0.8	1.3	1.4	60.	61.	0.2	< 0.1	2.6E-11	99	0	0
.5e	0.7	0.7	1.3	1.3	60.	61.	0.2	< 0.1	2.4E-11	99	0	0
.5f	0.7	0.7	1.2	1.2	60.	61.	0.2	< 0.1	2.2E-11	99	0	0
1F	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	5.7E-12	99	0	0
1E	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	6.2E-12	99	0	0
1D	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	6.7E-12	99	0	0
1C	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	7.0E-12	99	0	0
1B	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	7.3E-12	99	0	0
1A	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	7.5E-12	99	0	0
1a	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	7.5E-12	99	0	0
1.5F	< 0.1	< 0.1	0.1	0.1	60.	60.	< 0.1	< 0.1	2.5E-12	99	0	0
1.5E	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	2.8E-12	99	0	0
1.5D	< 0.1	< 0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.0E-12	99	0	0
1.5C	< 0.1	< 0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.2E-12	98	0	1
1.5B	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.3E-12	98	0	1
1.5A	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.4E-12	98	0	1
1.5CL	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	3.4E-12	97	0	2
1.5a	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.4E-12	98	0	1
1.5b	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.3E-12	98	0	1
1.5c	< 0.1	< 0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.2E-12	98	0	1
1.5d	< 0.1	< 0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	3.0E-12	99	0	0

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TABLE E2. o

OFFSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
1.5e	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	2.8E-12	99	0	0
1.5f	< 0.1	< 0.1	0.1	0.1	60.	60.	< 0.1	< 0.1	2.5E-12	99	0	0
2F	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.4E-12	99	0	0
2E	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.5E-12	99	0	0
2D	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	1.7E-12	98	0	1
2C	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.8E-12	97	0	2
2B	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	97	0	2
2A	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	97	0	2
2CL	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	96	0	3
2a	< 0.1	< 0.1	0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	97	0	2
2b	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.9E-12	97	0	2
2c	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.8E-12	97	0	2
2d	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	1.7E-12	98	0	1
2e	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.5E-12	99	0	0
2f	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.4E-12	99	0	0
2.5D	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.1E-12	98	0	1
2.5C	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	1.1E-12	96	0	3
2.5B	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.2E-12	95	0	4
2.5A	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.2E-12	94	0	5
2.5CL	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.2E-12	94	0	5
2.5a	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.2E-12	94	0	5
2.5b	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	1.2E-12	95	0	4
2.5c	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	1.1E-12	96	0	3
2.5d	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	1.1E-12	98	0	1
3C	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	7.9E-13	95	0	4
3B	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	8.3E-13	93	0	6
3A	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	8.6E-13	93	0	6
3CL	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	8.7E-13	92	0	7
3a	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	8.6E-13	93	0	6
3b	< 0.1	< 0.1	< 0.1	0.2	60.	60.	< 0.1	< 0.1	8.3E-13	93	0	6

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TABLE E2. o

OFFSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)
(continued)

	MONITOR READINGS				AIR SAMPLES (10 CF)		15-min RAD DATA		*CONTROLLER INFO*			
FIELD MONITOR POINT	CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	bare absorb CPM	filter-absorb CPM	change in SRD mR	contam cpm/ 100cm2	I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
3c	< 0.1	< 0.1	< 0.1	0.1	60.	60.	< 0.1	< 0.1	7.9E-13	95	0	4
4D	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	5.1E-13	95	0	4
4C	< 0.1	< 0.1	< 0.1	0.1	60.	61.	< 0.1	< 0.1	5.6E-13	92	0	7
4B	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	5.7E-13	87	0	12
4A	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	6.1E-13	85	0	14
4CL	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	6.1E-13	85	0	14
4a	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	6.1E-13	85	0	14
4b	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	5.7E-13	87	0	12
4c	< 0.1	< 0.1	< 0.1	0.1	60.	61.	< 0.1	< 0.1	5.6E-13	92	0	7
4d	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	5.1E-13	95	0	4
4.5C	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	4.4E-13	90	0	9
4.5B	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	4.6E-13	84	0	15
4.5A	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	4.7E-13	82	0	17
4.5CL	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	4.7E-13	81	0	18
4.5a	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	4.7E-13	82	0	17
4.5b	< 0.1	< 0.1	< 0.1	0.2	60.	61.	< 0.1	< 0.1	4.6E-13	84	0	15
4.5c	< 0.1	< 0.1	< 0.1	< 0.1	60.	61.	< 0.1	< 0.1	4.4E-13	90	0	9
5F	< 0.1	< 0.1	< 0.1	< 0.1	60.	65.	< 0.1	< 0.1	1.1E-12	99	0	0
5E	0.1	0.1	0.2	0.2	60.	76.	< 0.1	< 0.1	3.2E-12	99	0	0
5D	0.3	0.3	0.6	0.6	60.	110.	< 0.1	< 0.1	9.1E-12	99	0	0
5C	0.8	0.8	1.4	1.4	60.	180.	0.2	< 0.1	2.0E-11	99	0	0
5B	1.4	1.4	2.5	2.6	60.	280.	0.4	0.2	3.9E-11	99	0	0
5A	1.8	1.8	3.1	3.3	60.	340.	0.5	0.2	4.7E-11	99	0	0
5CL	2.0	2.0	3.4	3.5	60.	370.	0.5	0.3	5.2E-11	99	0	0
5a	1.8	1.8	3.1	3.3	60.	340.	0.5	0.2	4.7E-11	99	0	0
5b	1.4	1.4	2.5	2.6	60.	280.	0.4	0.2	3.9E-11	99	0	0
5c	0.8	0.8	1.4	1.4	60.	180.	0.2	< 0.1	2.0E-11	99	0	0
5d	0.3	0.3	0.6	0.6	60.	110.	< 0.1	< 0.1	9.1E-12	99	0	0
5e	0.1	0.1	0.2	0.2	60.	76.	< 0.1	< 0.1	3.2E-12	99	0	0
5f	< 0.1	< 0.1	< 0.1	< 0.1	60.	65.	< 0.1	< 0.1	1.1E-12	99	0	0

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TABLE E2. o

OFFSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)
(continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF): bare absorb CPM	AIR SAMPLES (10 CF): filter-absorb CPM	15-min RAD DATA: change in SRD mR	15-min RAD DATA: contam cpm/100cm2	*CONTROLLER INFO*: I-131 conc. uCi/cc	SRD dose Plm	percent contrib Plt	Grd
					Air Sample Background is 60 CPM							
6F	< 0.1	< 0.1	< 0.1	< 0.1	60.	64.	< 0.1	< 0.1	9.5E-13	99	0	0
6E	< 0.1	< 0.1	0.1	0.1	60.	74.	< 0.1	< 0.1	3.2E-12	99	0	0
6D	0.2	0.2	0.4	0.4	60.	110.	< 0.1	< 0.1	1.0E-11	99	0	0
6C	0.6	0.6	1.0	1.1	60.	180.	0.2	< 0.1	2.4E-11	99	0	0
6B	1.2	1.2	2.0	2.1	60.	280.	0.3	0.2	4.7E-11	99	0	0
6A	1.5	1.5	2.5	2.6	61.	340.	0.4	0.2	6.1E-11	99	0	0
6CL	1.6	1.6	2.8	2.9	61.	370.	0.4	0.3	6.6E-11	99	0	0
6a	1.5	1.5	2.5	2.6	61.	340.	0.4	0.2	6.1E-11	99	0	0
6b	1.2	1.2	2.0	2.1	60.	280.	0.3	0.2	4.7E-11	99	0	0
6c	0.6	0.6	1.0	1.1	60.	180.	0.2	< 0.1	2.4E-11	99	0	0
6d	0.2	0.2	0.4	0.4	60.	110.	< 0.1	< 0.1	1.0E-11	99	0	0
6e	< 0.1	< 0.1	0.1	0.1	60.	74.	< 0.1	< 0.1	3.2E-12	99	0	0
6f	< 0.1	< 0.1	< 0.1	< 0.1	60.	64.	< 0.1	< 0.1	9.5E-13	99	0	0
7F	< 0.1	< 0.1	< 0.1	< 0.1	60.	62.	< 0.1	< 0.1	8.4E-13	99	0	0
7E	< 0.1	< 0.1	< 0.1	< 0.1	60.	70.	< 0.1	< 0.1	2.9E-12	99	0	0
7D	0.1	0.1	0.2	0.2	60.	94.	< 0.1	< 0.1	9.1E-12	99	0	0
7C	0.3	0.3	0.5	0.5	60.	150.	< 0.1	< 0.1	2.4E-11	99	0	0
7B	0.6	0.6	1.0	1.0	60.	240.	0.1	0.1	4.7E-11	99	0	0
7A	0.7	0.7	1.3	1.3	61.	300.	0.2	0.2	6.3E-11	99	0	0
7CL	0.8	0.8	1.4	1.5	61.	330.	0.2	0.2	6.9E-11	99	0	0
7a	0.7	0.7	1.3	1.3	61.	300.	0.2	0.2	6.3E-11	99	0	0
7b	0.6	0.6	1.0	1.0	60.	240.	0.1	0.1	4.7E-11	99	0	0
7c	0.3	0.3	0.5	0.5	60.	150.	< 0.1	< 0.1	2.4E-11	99	0	0
7d	0.1	0.1	0.2	0.2	60.	94.	< 0.1	< 0.1	9.1E-12	99	0	0
7e	< 0.1	< 0.1	< 0.1	< 0.1	60.	70.	< 0.1	< 0.1	2.9E-12	99	0	0
7f	< 0.1	< 0.1	< 0.1	< 0.1	60.	62.	< 0.1	< 0.1	8.4E-13	99	0	0
8F	< 0.1	< 0.1	< 0.1	< 0.1	60.	62.	< 0.1	< 0.1	5.1E-13	99	0	0
8E	< 0.1	< 0.1	< 0.1	< 0.1	60.	69.	< 0.1	< 0.1	2.4E-12	99	0	0
8D	< 0.1	< 0.1	0.1	0.2	60.	94.	< 0.1	< 0.1	9.6E-12	99	0	0
8C	0.3	0.3	0.4	0.4	60.	160.	< 0.1	< 0.1	2.7E-11	99	0	0

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TABLE E2. o

OFFSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00) (continued)

FIELD MONITOR POINT	MONITOR READINGS: CLOSED WINDOW waist (mR/hr)	CLOSED WINDOW ground (mR/hr)	OPEN WINDOW waist (mR/hr)	OPEN WINDOW ground (mR/hr)	AIR SAMPLES (10 CF) bare absorb CPM	AIR SAMPLES (10 CF) filter-absorb CPM	15-min RAD DATA change in SRD mR	15-min RAD DATA contam cpm/100cm2	*CONTROLLER INFO* I-131 conc. uCi/cc	SRD percent dose contrib Plm	Plt	Grd
					Air Sample Background is 60 CPM							
8B	0.5	0.5	0.9	0.9	60.	270.	0.1	0.2	5.7E-11	99	0	0
8A	0.8	0.8	1.3	1.3	61.	360.	0.2	0.2	7.9E-11	99	0	0
8CL	0.9	0.9	1.5	1.5	61.	390.	0.2	0.3	8.8E-11	99	0	0
9D	< 0.1	< 0.1	< 0.1	< 0.1	60.	62.	< 0.1	< 0.1	2.7E-13	100	0	0
9C	< 0.1	< 0.1	< 0.1	< 0.1	60.	66.	< 0.1	< 0.1	9.1E-13	100	0	0
9B	0.1	0.1	0.2	0.2	60.	74.	< 0.1	< 0.1	2.2E-12	100	0	0
9A	0.2	0.2	0.3	0.3	60.	82.	< 0.1	< 0.1	3.5E-12	100	0	0
9CL	0.2	0.2	0.4	0.4	60.	85.	< 0.1	< 0.1	4.1E-12	100	0	0
1CL	0.2	0.2	0.4	0.5	60.	60.	< 0.1	< 0.1	7.5E-12	99	0	0
1b	0.2	0.2	0.4	0.5	60.	60.	< 0.1	< 0.1	7.1E-12	99	0	0
1c	0.2	0.2	0.4	0.4	60.	60.	< 0.1	< 0.1	6.8E-12	99	0	0
1d	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	6.4E-12	99	0	0
1e	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	5.9E-12	99	0	0
1f	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.4E-12	99	0	0
1.2F	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.0E-12	99	0	0
1.2E	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.3E-12	99	0	0
1.2D	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	4.6E-12	99	0	0
1.2C	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	4.9E-12	99	0	0
1.2B	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	5.1E-12	98	0	1
1.2A	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	5.2E-12	98	0	1
1.2CL	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	5.3E-12	98	0	1
1.2a	0.2	0.2	0.3	0.4	60.	60.	< 0.1	< 0.1	5.2E-12	98	0	1
1.2b	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	5.1E-12	98	0	1
1.2c	0.2	0.2	0.3	0.3	60.	60.	< 0.1	< 0.1	4.9E-12	99	0	0
1.2d	0.1	0.1	0.2	0.3	60.	60.	< 0.1	< 0.1	4.6E-12	99	0	0
1.2e	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.3E-12	99	0	0
1.2f	0.1	0.1	0.2	0.2	60.	60.	< 0.1	< 0.1	4.0E-12	99	0	0
OTHERS	< 0.1	< 0.1	< 0.1	< 0.1	60.	60.	< 0.1	< 0.1	0.0E+00	0	0	0

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TABLE E2. o

OFFSITE SURVEY AND SAMPLING DATA (T = 08:00) (11:00)
(continued)

FOR CONTROLLER/OBSERVER USE ONLY
(Not to be Provided to Players):

Current Stability Class B

Primary Release Pt: PS Flow: 2.1E+0 m3/sec
Release Concentration-GIP (uCi/cc): 1.1E-01 7.5E-06 1.3E-05
(Flow & Release Integrated & Averaged over previous 15 minutes)
Whole Body Dose Projection: 0.2 mRem/hr
Thyroid Dose Projection: < 0.1 mRem/hr
at a distance of: 1.20 miles downwind
Maximums and Projections do not include plant shine or ground shine

Maximum Plume Whole-Body Dose Rate: 0.7 mRem/hr
at a distance of: 3.98 miles downwind

Maximum Thyroid Dose Commitment: 0.1 mRem/hr
at a distance of: 6.22 miles downwind

TABLE E3. a

ENVIRONMENTAL SAMPLING DATA (T = 00:00) (03:00)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION		GROUND DEPOSITION
	iodine	total	
	(pCi/kg)	(pCi/kg)	(cpm/100cm2)

ALL SAMPLES LESS THAN MDA

TABLE E3. c

ENVIRONMENTAL SAMPLING DATA (T = 03:30) (06:30)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION		GROUND DEPOSITION
	iodine	total	
	(pCi/kg)	(pCi/kg)	(cpm/100cm2)
.5A	< 0.1	0.2	< 0.1
.5CL	< 0.1	0.2	< 0.1
.5a	< 0.1	0.2	< 0.1
1B	< 0.1	0.2	< 0.1
1A	< 0.1	0.2	< 0.1
1a	< 0.1	0.2	< 0.1
2.5D	0.3	0.3	< 0.1
2.5C	0.9	0.9	< 0.1
2.5B	2.0	2.2	< 0.1
2.5A	3.3	3.6	< 0.1
2.5CL	4.0	4.3	< 0.1
2.5a	3.3	3.6	< 0.1
2.5b	2.0	2.2	< 0.1
2.5c	0.9	0.9	< 0.1
2.5d	0.3	0.3	< 0.1
3D	0.1	0.1	< 0.1
3C	0.4	0.4	< 0.1
3B	0.9	1.0	< 0.1
3A	1.6	1.8	< 0.1
3CL	1.9	2.1	< 0.1
3a	1.6	1.8	< 0.1
3b	0.9	1.0	< 0.1
3c	0.4	0.4	< 0.1
3d	0.1	0.1	< 0.1
1CL	< 0.1	0.2	< 0.1
1.2A	< 0.1	0.2	< 0.1
1.2CL	< 0.1	0.2	< 0.1
1.2a	< 0.1	0.2	< 0.1

OTHER SAMPLES LESS THAN MDA

TABLE E3. d

ENVIRONMENTAL SAMPLING DATA (T = 04:00) (07:00)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5C	< 0.1	0.1	< 0.1
.5B	0.1	0.2	< 0.1
.5A	< 0.1	0.2	< 0.1
.5CL	< 0.1	0.2	< 0.1
.5a	< 0.1	0.2	< 0.1
.5b	0.1	0.2	< 0.1
.5c	< 0.1	0.1	< 0.1
1B	< 0.1	0.2	< 0.1
1A	< 0.1	0.2	< 0.1
1a	< 0.1	0.2	< 0.1
1.5CL	< 0.1	0.1	< 0.1
2CL	< 0.1	0.1	< 0.1
2.5D	0.2	0.2	< 0.1
2.5C	0.8	0.8	< 0.1
2.5B	1.8	1.9	< 0.1
2.5A	3.0	3.1	< 0.1
2.5CL	3.6	3.7	< 0.1
2.5a	3.0	3.1	< 0.1
2.5b	1.8	1.9	< 0.1
2.5c	0.8	0.8	< 0.1
2.5d	0.2	0.2	< 0.1
3D	0.2	0.2	< 0.1
3C	0.6	0.6	< 0.1
3B	1.4	1.6	< 0.1
3A	2.4	2.7	< 0.1
3CL	2.9	3.2	< 0.1
3a	2.4	2.7	< 0.1
3b	1.4	1.6	< 0.1
3c	0.6	0.6	< 0.1
3d	0.2	0.2	< 0.1
4C	< 0.1	0.1	< 0.1
4B	0.2	0.3	< 0.1
4A	0.4	0.5	< 0.1
4CL	0.5	0.6	< 0.1
4a	0.4	0.5	< 0.1
4b	0.2	0.3	< 0.1
4c	< 0.1	0.1	< 0.1
1CL	< 0.1	0.2	< 0.1
1b	< 0.1	0.2	< 0.1
1.2B	< 0.1	0.2	< 0.1

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TABLE E3. e

ENVIRONMENTAL SAMPLING DATA (T = 04:00) (07:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
1.2A	< 0.1	0.2	< 0.1
1.2CL	< 0.1	0.2	< 0.1
1.2a	< 0.1	0.2	< 0.1
1.2b	< 0.1	0.2	< 0.1

OTHER SAMPLES LESS THAN MDA

TABLE E3. e

ENVIRONMENTAL SAMPLING DATA (T = 04:30) (07:30)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	850.	880.	< 0.1
.5E	1700.	1800.	0.2
.5D	3200.	3300.	0.3
.5C	4500.	4600.	0.4
.5B	4800.	4900.	0.4
.5A	4800.	4900.	0.4
.5CL	4800.	4900.	0.4
.5a	4800.	4900.	0.4
.5b	4800.	4900.	0.4
.5c	4500.	4600.	0.4
.5d	3200.	3300.	0.3
.5e	1700.	1800.	0.2
.5f	850.	880.	< 0.1
1F	250.	260.	< 0.1
1E	580.	590.	< 0.1
1D	1200.	1200.	0.1
1C	2000.	2100.	0.2
1B	2200.	2300.	0.2
1A	2300.	2400.	0.2
1a	2300.	2400.	0.2
1.5F	< 0.1	0.3	< 0.1
1.5E	< 0.1	0.7	< 0.1
1.5D	< 0.1	1.5	< 0.1
1.5C	< 0.1	2.8	< 0.1
1.5B	< 0.1	3.4	< 0.1
1.5A	< 0.1	3.7	< 0.1
1.5CL	< 0.1	0.2	< 0.1
1.5a	< 0.1	3.7	< 0.1
1.5b	< 0.1	3.4	< 0.1
1.5c	< 0.1	2.8	< 0.1
1.5d	< 0.1	1.5	< 0.1
1.5e	< 0.1	0.7	< 0.1
1.5f	< 0.1	0.3	< 0.1
2A	< 0.1	0.2	< 0.1
2CL	< 0.1	0.2	< 0.1
2a	< 0.1	0.2	< 0.1
2.5D	0.2	0.2	< 0.1
2.5C	0.7	0.7	< 0.1
2.5B	1.6	1.7	< 0.1
2.5A	2.7	2.8	< 0.1

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TABLE E3. f

ENVIRONMENTAL SAMPLING DATA (T = 04:30) (07:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2.5CL	3.2	3.3	< 0.1
2.5a	2.7	2.8	< 0.1
2.5b	1.6	1.7	< 0.1
2.5c	0.7	0.7	< 0.1
2.5d	0.2	0.2	< 0.1
3D	0.2	0.2	< 0.1
3C	0.5	0.6	< 0.1
3B	1.3	1.4	< 0.1
3A	2.2	2.3	< 0.1
3CL	2.6	2.8	< 0.1
3a	2.2	2.3	< 0.1
3b	1.3	1.4	< 0.1
3c	0.5	0.6	< 0.1
3d	0.2	0.2	< 0.1
4C	0.3	0.3	< 0.1
4B	0.7	0.8	< 0.1
4A	1.2	1.3	< 0.1
4CL	1.4	1.6	< 0.1
4a	1.2	1.3	< 0.1
4b	0.7	0.8	< 0.1
4c	0.3	0.3	< 0.1
4.5C	< 0.1	< 0.1	< 0.1
4.5B	0.2	0.2	< 0.1
4.5A	0.3	0.4	< 0.1
4.5CL	0.4	0.5	< 0.1
4.5a	0.3	0.4	< 0.1
4.5b	0.2	0.2	< 0.1
4.5c	< 0.1	< 0.1	< 0.1
1CL	< 0.1	6.0	< 0.1
1b	< 0.1	5.2	< 0.1
1c	< 0.1	4.1	< 0.1
1d	< 0.1	2.1	< 0.1
1e	< 0.1	1.0	< 0.1
1.2F	< 0.1	0.4	< 0.1
1.2E	< 0.1	1.0	< 0.1
1.2D	< 0.1	2.2	< 0.1
1.2C	< 0.1	3.9	< 0.1
1.2B	< 0.1	4.4	< 0.1
1.2A	< 0.1	4.7	< 0.1
1.2CL	< 0.1	4.9	< 0.1

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TABLE E3. f

ENVIRONMENTAL SAMPLING DATA (T = 04:30) (07:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
1.2a	< 0.1	4.7	< 0.1
1.2b	< 0.1	4.4	< 0.1
1.2c	< 0.1	3.9	< 0.1
1.2d	< 0.1	2.2	< 0.1
1.2e	< 0.1	1.0	< 0.1
1.2f	< 0.1	0.4	< 0.1

OTHER SAMPLES LESS THAN MDA

TABLE E3. g

ENVIRONMENTAL SAMPLING DATA (T = 05:30) (08:30)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	6500.	6600.	0.6
.5E	1.3E4	1.4E4	1.2
.5D	2.4E4	2.5E4	2.2
.5C	3.4E4	3.5E4	3.1
.5B	3.5E4	3.6E4	3.2
.5A	3.6E4	3.7E4	3.3
.5CL	3.7E4	3.8E4	3.3
.5a	3.6E4	3.7E4	3.3
.5b	3.5E4	3.6E4	3.2
.5c	3.4E4	3.5E4	3.1
.5d	2.4E4	2.5E4	2.2
.5e	1.3E4	1.4E4	1.2
.5f	6500.	6600.	0.6
1F	2000.	2000.	0.2
1E	4400.	4500.	0.4
1D	9200.	9500.	0.8
1C	1.5E4	1.6E4	1.4
1B	1.7E4	1.7E4	1.5
1A	1.8E4	1.8E4	1.6
1a	1.8E4	1.8E4	1.6
1.5F	690.	5900.	0.5
1.5E	1800.	1.5E4	1.4
1.5D	3900.	3.4E4	3.0
1.5C	7100.	6.1E4	5.4
1.5B	9000.	7.5E4	6.7
1.5A	9700.	8.1E4	7.2
1.5CL	7300.	1.0E5	9.1
1.5a	9700.	8.1E4	7.2
1.5b	9000.	7.5E4	6.7
1.5c	7100.	6.1E4	5.4
1.5d	3900.	3.4E4	3.0
1.5e	1800.	1.5E4	1.4
1.5f	690.	5900.	0.5
2F	270.	3700.	0.3
2E	780.	1.0E4	0.9
2D	1800.	2.4E4	2.2
2C	3500.	4.7E4	4.2
2B	4700.	6.4E4	5.7
2A	5200.	7.1E4	6.3
2CL	5500.	7.4E4	6.6

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TABLE E3. h

ENVIRONMENTAL SAMPLING DATA (T = 05:30) (08:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2a	5200.	7.1E4	6.3
2b	4700.	6.4E4	5.7
2c	3500.	4.7E4	4.2
2d	1800.	2.4E4	2.2
2e	780.	1.0E4	0.9
2f	270.	3700.	0.3
2.5F	94.	1600.	0.1
2.5E	290.	5100.	0.4
2.5D	720.	1.2E4	1.1
2.5C	1500.	2.5E4	2.2
2.5B	2100.	3.7E4	3.3
2.5A	2400.	4.1E4	3.6
2.5CL	2500.	4.4E4	3.9
2.5a	2400.	4.1E4	3.6
2.5b	2100.	3.7E4	3.3
2.5c	1500.	2.5E4	2.2
2.5d	720.	1.2E4	1.1
2.5e	290.	5100.	0.4
2.5f	94.	1600.	0.1
3F	17.	320.	< 0.1
3E	55.	1000.	< 0.1
3D	150.	2600.	0.2
3C	300.	5600.	0.5
3B	480.	8500.	0.8
3A	550.	1.0E4	0.9
3CL	580.	1.1E4	0.9
3a	550.	1.0E4	0.9
3b	480.	8500.	0.8
3c	300.	5600.	0.5
3d	150.	2600.	0.2
3e	55.	1000.	< 0.1
3f	17.	320.	< 0.1
4D	0.1	0.1	< 0.1
4C	0.4	0.4	< 0.1
4B	1.0	1.1	< 0.1
4A	1.7	1.9	< 0.1
4CL	2.0	2.3	< 0.1
4a	1.7	1.9	< 0.1
4b	1.0	1.1	< 0.1
4c	0.4	0.4	< 0.1

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TABLE E3. h

ENVIRONMENTAL SAMPLING DATA (T = 05:30) (08:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4d	0.1	0.1	< 0.1
4.5D	< 0.1	< 0.1	< 0.1
4.5C	0.3	0.4	< 0.1
4.5B	0.8	0.9	< 0.1
4.5A	1.5	1.7	< 0.1
4.5CL	1.8	2.0	< 0.1
4.5a	1.5	1.7	< 0.1
4.5b	0.8	0.9	< 0.1
4.5c	0.3	0.4	< 0.1
4.5d	< 0.1	< 0.1	< 0.1
5C	0.2	0.2	< 0.1
5B	0.5	0.5	< 0.1
5A	0.8	1.0	< 0.1
5CL	1.0	1.1	< 0.1
5a	0.8	1.0	< 0.1
5b	0.5	0.5	< 0.1
5c	0.2	0.2	< 0.1
1CL	1.5E4	1.3E5	11.
1b	1.3E4	1.1E5	10.
1c	1.0E4	8.9E4	7.9
1d	5700.	4.9E4	4.3
1e	2700.	2.3E4	2.0
1f	210.	1800.	0.2
1.2F	1100.	9500.	0.8
1.2E	2700.	2.3E4	2.1
1.2D	5700.	4.9E4	4.3
1.2C	9900.	8.6E4	7.7
1.2B	1.1E4	9.8E4	8.7
1.2A	1.2E4	1.0E5	9.3
1.2CL	1.2E4	1.1E5	9.5
1.2a	1.2E4	1.0E5	9.3
1.2b	1.1E4	9.8E4	8.7
1.2c	9900.	8.6E4	7.7
1.2d	5700.	4.9E4	4.3
1.2e	2700.	2.3E4	2.1
1.2f	1100.	9500.	0.8

OTHER SAMPLES LESS THAN MDA

TABLE E3. h

ENVIRONMENTAL SAMPLING DATA (T = 06:00) (09:00)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	7100.	7200.	0.6
.5E	1.5E4	1.5E4	1.3
.5D	2.6E4	2.7E4	2.4
.5C	3.7E4	3.8E4	3.4
.5B	3.9E4	4.0E4	3.5
.5A	3.9E4	4.0E4	3.6
.5CL	4.0E4	4.1E4	3.7
.5a	3.9E4	4.0E4	3.6
.5b	3.9E4	4.0E4	3.5
.5c	3.7E4	3.8E4	3.4
.5d	2.6E4	2.7E4	2.4
.5e	1.5E4	1.5E4	1.3
.5f	7100.	7200.	0.6
1F	2100.	2200.	0.2
1E	4900.	5000.	0.4
1D	1.0E4	1.0E4	0.9
1C	1.7E4	1.7E4	1.5
1B	1.8E4	1.9E4	1.7
1A	1.9E4	2.0E4	1.8
1a	1.9E4	2.0E4	1.8
1.5F	820.	6200.	0.6
1.5E	2100.	1.6E4	1.4
1.5D	4700.	3.6E4	3.2
1.5C	8500.	6.5E4	5.8
1.5B	1.1E4	8.0E4	7.1
1.5A	1.2E4	8.6E4	7.7
1.5CL	1.0E4	1.3E5	11.
1.5a	1.2E4	8.6E4	7.7
1.5b	1.1E4	8.0E4	7.1
1.5c	8500.	6.5E4	5.8
1.5d	4700.	3.6E4	3.2
1.5e	2100.	1.6E4	1.4
1.5f	820.	6200.	0.6
2F	390.	4600.	0.4
2E	1100.	1.3E4	1.1
2D	2600.	3.0E4	2.7
2C	4900.	5.9E4	5.2
2B	6600.	7.9E4	7.0
2A	7400.	8.9E4	7.9
2CL	7700.	9.1E4	8.1

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TABLE E3. i

ENVIRONMENTAL SAMPLING DATA (T = 06:00) (09:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2a	7400.	8.9E4	7.9
2b	6600.	7.9E4	7.0
2c	4900.	5.9E4	5.2
2d	2600.	3.0E4	2.7
2e	1100.	1.3E4	1.1
2f	390.	4600.	0.4
2.5F	190.	2900.	0.3
2.5E	590.	8900.	0.8
2.5D	1500.	2.2E4	1.9
2.5C	2900.	4.4E4	4.0
2.5B	4300.	6.4E4	5.7
2.5A	4800.	7.4E4	6.5
2.5CL	5100.	7.6E4	6.8
2.5a	4800.	7.4E4	6.5
2.5b	4300.	6.4E4	5.7
2.5c	2900.	4.4E4	4.0
2.5d	1500.	2.2E4	1.9
2.5e	590.	8900.	0.8
2.5f	190.	2900.	0.3
3F	96.	1700.	0.1
3E	300.	5400.	0.5
3D	790.	1.4E4	1.2
3C	1700.	3.0E4	2.6
3B	2600.	4.5E4	4.0
3A	3000.	5.2E4	4.6
3CL	3200.	5.7E4	5.1
3a	3000.	5.2E4	4.6
3b	2600.	4.5E4	4.0
3c	1700.	3.0E4	2.6
3d	790.	1.4E4	1.2
3e	300.	5400.	0.5
3f	96.	1700.	0.1
4F	7.5	150.	< 0.1
4E	28.	550.	< 0.1
4D	78.	1600.	0.1
4C	180.	3400.	0.3
4B	300.	6100.	0.5
4A	350.	7400.	0.7
4CL	380.	7600.	0.7
4a	350.	7400.	0.7

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TABLE E3. i

ENVIRONMENTAL SAMPLING DATA (T = 06:00) (09:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4b	300.	6100.	0.5
4c	180.	3400.	0.3
4d	78.	1600.	0.1
4e	28.	550.	< 0.1
4f	7.5	150.	< 0.1
4.5E	< 0.1	0.1	< 0.1
4.5D	< 0.1	0.5	< 0.1
4.5C	0.3	1.2	< 0.1
4.5B	0.8	2.4	< 0.1
4.5A	1.4	3.4	< 0.1
4.5CL	1.7	3.9	< 0.1
4.5a	1.4	3.4	< 0.1
4.5b	0.8	2.4	< 0.1
4.5c	0.3	1.2	< 0.1
4.5d	< 0.1	0.5	< 0.1
4.5e	< 0.1	0.1	< 0.1
5C	0.3	0.3	< 0.1
5B	0.7	0.8	< 0.1
5A	1.3	1.4	< 0.1
5CL	1.5	1.7	< 0.1
5a	1.3	1.4	< 0.1
5b	0.7	0.8	< 0.1
5c	0.3	0.3	< 0.1
6B	0.1	0.2	< 0.1
6A	0.2	0.3	< 0.1
6CL	0.3	0.3	< 0.1
6a	0.2	0.3	< 0.1
6b	0.1	0.2	< 0.1
1CL	1.8E4	1.4E5	12.
1b	1.6E4	1.2E5	11.
1c	1.3E4	9.4E4	8.4
1d	6800.	5.2E4	4.6
1e	3200.	2.4E4	2.2
1f	250.	1900.	0.2
1.2F	1300.	1.0E4	0.9
1.2E	3300.	2.5E4	2.2
1.2D	6800.	5.2E4	4.6
1.2C	1.2E4	9.1E4	8.1
1.2B	1.4E4	1.0E5	9.2
1.2A	1.5E4	1.1E5	9.9

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TABLE E3. i

ENVIRONMENTAL SAMPLING DATA (T = 06:00) (09:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
1.2CL	1.5E4	1.1E5	10.
1.2a	1.5E4	1.1E5	9.9
1.2b	1.4E4	1.0E5	9.2
1.2c	1.2E4	9.1E4	8.1
1.2d	6800.	5.2E4	4.6
1.2e	3300.	2.5E4	2.2
1.2f	1300.	1.0E4	0.9

OTHER SAMPLES LESS THAN MDA

TABLE E3. i

ENVIRONMENTAL SAMPLING DATA (T = 06:30) (09:30)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	7100.	7300.	0.6
.5E	1.5E4	1.5E4	1.3
.5D	2.6E4	2.7E4	2.4
.5C	3.8E4	3.8E4	3.4
.5B	3.9E4	4.0E4	3.5
.5A	3.9E4	4.0E4	3.6
.5CL	4.0E4	4.1E4	3.7
.5a	3.9E4	4.0E4	3.6
.5b	3.9E4	4.0E4	3.5
.5c	3.8E4	3.8E4	3.4
.5d	2.6E4	2.7E4	2.4
.5e	1.5E4	1.5E4	1.3
.5f	7100.	7300.	0.6
1F	2100.	2200.	0.2
1E	4900.	5000.	0.4
1D	1.0E4	1.0E4	0.9
1C	1.7E4	1.7E4	1.5
1B	1.8E4	1.9E4	1.7
1A	2.0E4	2.0E4	1.8
1a	2.0E4	2.0E4	1.8
1.5F	900.	5700.	0.5
1.5E	2300.	1.5E4	1.3
1.5D	5100.	3.3E4	2.9
1.5C	9200.	6.0E4	5.3
1.5B	1.2E4	7.4E4	6.6
1.5A	1.3E4	8.0E4	7.1
1.5CL	1.1E4	1.2E5	11.
1.5a	1.3E4	8.0E4	7.1
1.5b	1.2E4	7.4E4	6.6
1.5c	9200.	6.0E4	5.3
1.5d	5100.	3.3E4	2.9
1.5e	2300.	1.5E4	1.3
1.5f	900.	5700.	0.5
2F	430.	4400.	0.4
2E	1200.	1.2E4	1.1
2D	2800.	2.9E4	2.6
2C	5400.	5.6E4	5.0
2B	7300.	7.6E4	6.8
2A	8200.	8.5E4	7.6
2CL	8500.	8.8E4	7.8

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TABLE E3. j

ENVIRONMENTAL SAMPLING DATA (T = 06:30) (09:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2a	8200.	8.5E4	7.6
2b	7300.	7.6E4	6.8
2c	5400.	5.6E4	5.0
2d	2800.	2.9E4	2.6
2e	1200.	1.2E4	1.1
2f	430.	4400.	0.4
2.5F	230.	3100.	0.3
2.5E	710.	9400.	0.8
2.5D	1700.	2.3E4	2.0
2.5C	3500.	4.7E4	4.2
2.5B	5100.	6.7E4	6.0
2.5A	5800.	7.7E4	6.9
2.5CL	6100.	8.0E4	7.1
2.5a	5800.	7.7E4	6.9
2.5b	5100.	6.7E4	6.0
2.5c	3500.	4.7E4	4.2
2.5d	1700.	2.3E4	2.0
2.5e	710.	9400.	0.8
2.5f	230.	3100.	0.3
3F	130.	2100.	0.2
3E	430.	6700.	0.6
3D	1100.	1.7E4	1.5
3C	2400.	3.7E4	3.3
3B	3700.	5.6E4	5.0
3A	4200.	6.5E4	5.8
3CL	4500.	7.0E4	6.2
3a	4200.	6.5E4	5.8
3b	3700.	5.6E4	5.0
3c	2400.	3.7E4	3.3
3d	1100.	1.7E4	1.5
3e	430.	6700.	0.6
3f	130.	2100.	0.2
4F	41.	800.	< 0.1
4E	150.	2900.	0.3
4D	430.	8500.	0.8
4C	970.	1.9E4	1.6
4B	1600.	3.2E4	2.8
4A	2000.	3.9E4	3.4
4CL	2100.	4.1E4	3.7
4a	2000.	3.9E4	3.4

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TABLE E3. j

ENVIRONMENTAL SAMPLING DATA (T = 06:30) (09:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4b	1600.	3.2E4	2.8
4c	970.	1.9E4	1.6
4d	430.	8500.	0.8
4e	150.	2900.	0.3
4f	41.	800.	< 0.1
4.5F	18.	400.	< 0.1
4.5E	69.	1500.	0.1
4.5D	200.	4300.	0.4
4.5C	480.	1.0E4	0.9
4.5B	830.	1.8E4	1.6
4.5A	1000.	2.2E4	2.0
4.5CL	1100.	2.4E4	2.1
4.5a	1000.	2.2E4	2.0
4.5b	830.	1.8E4	1.6
4.5c	480.	1.0E4	0.9
4.5d	200.	4300.	0.4
4.5e	69.	1500.	0.1
4.5f	18.	400.	< 0.1
5F	3.8	81.	< 0.1
5E	15.	320.	< 0.1
5D	48.	1000.	< 0.1
5C	110.	2400.	0.2
5B	200.	4500.	0.4
5A	250.	5500.	0.5
5CL	280.	6000.	0.5
5a	250.	5500.	0.5
5b	200.	4500.	0.4
5c	110.	2400.	0.2
5d	48.	1000.	< 0.1
5e	15.	320.	< 0.1
5f	3.8	81.	< 0.1
6C	0.1	0.1	< 0.1
6B	0.3	0.4	< 0.1
6A	0.6	0.7	< 0.1
6CL	0.8	0.9	< 0.1
6a	0.6	0.7	< 0.1
6b	0.3	0.4	< 0.1
6c	0.1	0.1	< 0.1
1CL	2.0E4	1.3E5	11.
1b	1.8E4	1.1E5	10.

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TABLE E3. j

ENVIRONMENTAL SAMPLING DATA (T = 06:30) (09:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
1c	1.4E4	8.7E4	7.7
1d	7400.	4.7E4	4.2
1e	3500.	2.2E4	2.0
1f	270.	1800.	0.2
1.2F	1400.	9200.	0.8
1.2E	3500.	2.3E4	2.0
1.2D	7400.	4.8E4	4.3
1.2C	1.3E4	8.3E4	7.4
1.2B	1.5E4	9.5E4	8.5
1.2A	1.6E4	1.0E5	9.1
1.2CL	1.6E4	1.0E5	9.2
1.2a	1.6E4	1.0E5	9.1
1.2b	1.5E4	9.5E4	8.5
1.2c	1.3E4	8.3E4	7.4
1.2d	7400.	4.8E4	4.3
1.2e	3500.	2.3E4	2.0
1.2f	1400.	9200.	0.8

OTHER SAMPLES LESS THAN MDA

TABLE E3. j

ENVIRONMENTAL SAMPLING DATA (T = 07:00) (10:00)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	7200.	7300.	0.6
.5E	1.5E4	1.5E4	1.3
.5D	2.7E4	2.7E4	2.4
.5C	3.8E4	3.9E4	3.4
.5B	3.9E4	4.0E4	3.6
.5A	4.0E4	4.1E4	3.6
.5CL	4.1E4	4.1E4	3.7
.5a	4.0E4	4.1E4	3.6
.5b	3.9E4	4.0E4	3.6
.5c	3.8E4	3.9E4	3.4
.5d	2.7E4	2.7E4	2.4
.5e	1.5E4	1.5E4	1.3
.5f	7200.	7300.	0.6
1F	2200.	2200.	0.2
1E	4900.	5000.	0.4
1D	1.0E4	1.0E4	0.9
1C	1.7E4	1.7E4	1.5
1B	1.8E4	1.9E4	1.7
1A	2.0E4	2.0E4	1.8
1a	2.0E4	2.0E4	1.8
1.5F	910.	3600.	0.3
1.5E	2300.	9300.	0.8
1.5D	5100.	2.1E4	1.8
1.5C	9300.	3.8E4	3.3
1.5B	1.2E4	4.6E4	4.1
1.5A	1.3E4	5.0E4	4.5
1.5CL	1.2E4	1.1E5	9.6
1.5a	1.3E4	5.0E4	4.5
1.5b	1.2E4	4.6E4	4.1
1.5c	9300.	3.8E4	3.3
1.5d	5100.	2.1E4	1.8
1.5e	2300.	9300.	0.8
1.5f	910.	3600.	0.3
2F	460.	3900.	0.3
2E	1300.	1.1E4	1.0
2D	3000.	2.6E4	2.3
2C	5800.	5.0E4	4.5
2B	7800.	6.8E4	6.0
2A	8700.	7.5E4	6.7
2CL	9100.	7.9E4	7.0

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TABLE E3. k

ENVIRONMENTAL SAMPLING DATA (T = 07:00) (10:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2a	8700.	7.5E4	6.7
2b	7800.	6.8E4	6.0
2c	5800.	5.0E4	4.5
2d	3000.	2.6E4	2.3
2e	1300.	1.1E4	1.0
2f	460.	3900.	0.3
2.5F	250.	3100.	0.3
2.5E	770.	9700.	0.9
2.5D	1900.	2.4E4	2.1
2.5C	3800.	4.8E4	4.3
2.5B	5600.	6.9E4	6.1
2.5A	6300.	7.9E4	7.0
2.5CL	6700.	8.3E4	7.3
2.5a	6300.	7.9E4	7.0
2.5b	5600.	6.9E4	6.1
2.5c	3800.	4.8E4	4.3
2.5d	1900.	2.4E4	2.1
2.5e	770.	9700.	0.9
2.5f	250.	3100.	0.3
3F	160.	2200.	0.2
3E	500.	7200.	0.6
3D	1300.	1.8E4	1.6
3C	2700.	3.9E4	3.5
3B	4200.	6.0E4	5.3
3A	4900.	7.0E4	6.2
3CL	5200.	7.4E4	6.6
3a	4900.	7.0E4	6.2
3b	4200.	6.0E4	5.3
3c	2700.	3.9E4	3.5
3d	1300.	1.8E4	1.6
3e	500.	7100.	0.6
3f	160.	2200.	0.2
4F	59.	970.	< 0.1
4E	210.	3600.	0.3
4D	610.	1.0E4	0.9
4C	1400.	2.3E4	2.0
4B	2300.	3.8E4	3.4
4A	2800.	4.7E4	4.2
4CL	3000.	5.0E4	4.5
4a	2800.	4.7E4	4.2

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TABLE E3. k

ENVIRONMENTAL SAMPLING DATA (T = 07:00) (10:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4b	2300.	3.8E4	3.4
4c	1400.	2.3E4	2.0
4d	610.	1.0E4	0.9
4e	210.	3600.	0.3
4f	58.	970.	< 0.1
4.5F	37.	680.	< 0.1
4.5E	140.	2600.	0.2
4.5D	410.	7400.	0.7
4.5C	980.	1.8E4	1.6
4.5B	1700.	3.1E4	2.8
4.5A	2100.	3.8E4	3.4
4.5CL	2200.	4.1E4	3.7
4.5a	2100.	3.8E4	3.4
4.5b	1700.	3.1E4	2.8
4.5c	980.	1.8E4	1.6
4.5d	410.	7400.	0.7
4.5e	140.	2600.	0.2
4.5f	37.	680.	< 0.1
5F	21.	430.	< 0.1
5E	85.	1700.	0.1
5D	260.	5300.	0.5
5C	620.	1.3E4	1.1
5B	1100.	2.3E4	2.0
5A	1400.	2.9E4	2.6
5CL	1500.	3.1E4	2.8
5a	1400.	2.9E4	2.6
5b	1100.	2.3E4	2.0
5c	620.	1.3E4	1.1
5d	260.	5300.	0.5
5e	85.	1700.	0.1
5f	21.	430.	< 0.1
6F	2.1	47.	< 0.1
6E	9.3	210.	< 0.1
6D	30.	680.	< 0.1
6C	78.	1800.	0.2
6B	150.	3400.	0.3
6A	190.	4400.	0.4
6CL	210.	4700.	0.4
6a	190.	4400.	0.4
6b	150.	3400.	0.3

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TABLE E3. k

ENVIRONMENTAL SAMPLING DATA (T = 07:00) (10:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
6c	78.	1800.	0.2
6d	30.	680.	< 0.1
6e	9.3	210.	< 0.1
6f	2.1	47.	< 0.1
7B	< 0.1	0.1	< 0.1
7A	0.2	0.2	< 0.1
7CL	0.2	0.3	< 0.1
7a	0.2	0.2	< 0.1
7b	< 0.1	0.1	< 0.1
1CL	2.0E4	8.0E4	7.1
1b	1.8E4	7.0E4	6.3
1c	1.4E4	5.5E4	4.9
1d	7400.	3.0E4	2.6
1e	3500.	1.4E4	1.3
1f	280.	1100.	< 0.1
1.2F	1400.	5800.	0.5
1.2E	3600.	1.4E4	1.3
1.2D	7500.	3.0E4	2.7
1.2C	1.3E4	5.2E4	4.7
1.2B	1.5E4	6.0E4	5.3
1.2A	1.6E4	6.4E4	5.7
1.2CL	1.6E4	6.5E4	5.8
1.2a	1.6E4	6.4E4	5.7
1.2b	1.5E4	6.0E4	5.3
1.2c	1.3E4	5.2E4	4.7
1.2d	7500.	3.0E4	2.7
1.2e	3600.	1.4E4	1.3
1.2f	1400.	5800.	0.5

OTHER SAMPLES LESS THAN MDA

TABLE E3. k

ENVIRONMENTAL SAMPLING DATA (T = 07:30) (10:30)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	7200.	7300.	0.6
.5E	1.4E4	1.4E4	1.3
.5D	2.5E4	2.6E4	2.3
.5C	3.5E4	3.6E4	3.2
.5B	3.8E4	3.9E4	3.4
.5A	3.9E4	4.0E4	3.6
.5CL	4.0E4	4.1E4	3.6
.5a	3.9E4	4.0E4	3.6
.5b	3.8E4	3.9E4	3.4
.5c	3.5E4	3.6E4	3.2
.5d	2.5E4	2.6E4	2.3
.5e	1.4E4	1.4E4	1.3
.5f	7200.	7300.	0.6
Main_tng	13.	14.	< 0.1
1F	2100.	2200.	0.2
1E	4700.	4800.	0.4
1D	9600.	9700.	0.9
1C	1.6E4	1.6E4	1.5
1B	1.8E4	1.8E4	1.6
1A	1.9E4	2.0E4	1.7
1a	1.9E4	2.0E4	1.7
1.5F	900.	2600.	0.2
1.5E	2200.	6600.	0.6
1.5D	4800.	1.5E4	1.3
1.5C	8800.	2.7E4	2.4
1.5B	1.1E4	3.3E4	2.9
1.5A	1.2E4	3.6E4	3.2
1.5CL	1.2E4	8.0E4	7.1
1.5a	1.2E4	3.6E4	3.2
1.5b	1.1E4	3.3E4	2.9
1.5c	8800.	2.7E4	2.4
1.5d	4800.	1.5E4	1.3
1.5e	2200.	6600.	0.6
1.5f	900.	2600.	0.2
2F	480.	2900.	0.3
2E	1300.	8100.	0.7
2D	3000.	1.9E4	1.7
2C	5700.	3.7E4	3.3
2B	7800.	5.0E4	4.4
2A	8700.	5.6E4	5.0

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TABLE E3. 1

ENVIRONMENTAL SAMPLING DATA (T = 07:30) (10:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2CL	9100.	5.8E4	5.2
2a	8700.	5.6E4	5.0
2b	7800.	5.0E4	4.4
2c	5700.	3.7E4	3.3
2d	3000.	1.9E4	1.7
2e	1300.	8100.	0.7
2f	480.	2900.	0.3
2.5F	280.	2600.	0.2
2.5E	820.	8200.	0.7
2.5D	2000.	2.0E4	1.8
2.5C	4000.	4.0E4	3.6
2.5B	5900.	5.8E4	5.2
2.5A	6700.	6.7E4	5.9
2.5CL	7100.	6.9E4	6.2
2.5a	6700.	6.7E4	5.9
2.5b	5900.	5.8E4	5.2
2.5c	4000.	4.0E4	3.6
2.5d	2000.	2.0E4	1.8
2.5e	820.	8200.	0.7
2.5f	280.	2600.	0.2
3F	180.	2100.	0.2
3E	560.	6800.	0.6
3D	1400.	1.7E4	1.5
3C	3000.	3.7E4	3.3
3B	4700.	5.7E4	5.0
3A	5400.	6.6E4	5.9
3CL	5800.	7.0E4	6.2
3a	5400.	6.6E4	5.9
3b	4700.	5.7E4	5.0
3c	3000.	3.7E4	3.3
3d	1400.	1.7E4	1.5
3e	560.	6800.	0.6
3f	180.	2100.	0.2
4F	69.	1200.	0.1
4E	250.	4300.	0.4
4D	720.	1.3E4	1.1
4C	1700.	2.8E4	2.5
4B	2800.	4.8E4	4.2
4A	3400.	5.8E4	5.2
4CL	3600.	6.2E4	5.5

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TABLE E3. 1

ENVIRONMENTAL SAMPLING DATA (T = 07:30) (10:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4a	3400.	5.8E4	5.2
4b	2800.	4.8E4	4.2
4c	1700.	2.8E4	2.5
4d	720.	1.3E4	1.1
4e	250.	4300.	0.4
4f	69.	1200.	0.1
4.5F	47.	880.	< 0.1
4.5E	180.	3300.	0.3
4.5D	540.	9900.	0.9
4.5C	1300.	2.4E4	2.1
4.5B	2200.	4.2E4	3.7
4.5A	2800.	5.2E4	4.6
4.5CL	3000.	5.6E4	4.9
4.5a	2800.	5.2E4	4.6
4.5b	2200.	4.2E4	3.7
4.5c	1300.	2.4E4	2.1
4.5d	540.	9900.	0.9
4.5e	180.	3300.	0.3
4.5f	47.	880.	< 0.1
5F	30.	560.	< 0.1
5E	120.	2200.	0.2
5D	370.	6900.	0.6
5C	880.	1.6E4	1.4
5B	1600.	3.0E4	2.7
5A	2000.	3.8E4	3.3
5CL	2200.	4.1E4	3.6
5a	2000.	3.8E4	3.3
5b	1600.	3.0E4	2.7
5c	880.	1.6E4	1.4
5d	370.	6900.	0.6
5e	120.	2200.	0.2
5f	30.	560.	< 0.1
6F	12.	260.	< 0.1
6E	51.	1100.	0.1
6D	170.	3700.	0.3
6C	430.	9300.	0.8
6B	850.	1.8E4	1.6
6A	1100.	2.4E4	2.1
6CL	1200.	2.6E4	2.3
6a	1100.	2.4E4	2.1

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TABLE E3. 1

ENVIRONMENTAL SAMPLING DATA (T = 07:30) (10:30)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
6b	850.	1.8E4	1.6
6c	430.	9300.	0.8
6d	170.	3700.	0.3
6e	51.	1100.	0.1
6f	12.	260.	< 0.1
7F	1.3	29.	< 0.1
7E	6.0	140.	< 0.1
7D	21.	500.	< 0.1
7C	58.	1300.	0.1
7B	120.	2600.	0.2
7A	150.	3700.	0.3
7CL	170.	3900.	0.3
7a	150.	3700.	0.3
7b	120.	2600.	0.2
7c	58.	1300.	0.1
7d	21.	500.	< 0.1
7e	6.0	140.	< 0.1
7f	1.3	29.	< 0.1
WNP4	8.7	9.4	< 0.1
1CL	2.0E4	5.7E4	5.1
1b	1.7E4	5.0E4	4.5
1c	1.3E4	3.9E4	3.4
1d	7000.	2.1E4	1.9
1e	3400.	1.0E4	0.9
1f	370.	910.	< 0.1
1.2F	1400.	4200.	0.4
1.2E	3400.	1.0E4	0.9
1.2D	7100.	2.1E4	1.9
1.2C	1.2E4	3.7E4	3.3
1.2B	1.4E4	4.3E4	3.8
1.2A	1.6E4	4.6E4	4.1
1.2CL	1.6E4	4.7E4	4.1
1.2a	1.6E4	4.6E4	4.1
1.2b	1.4E4	4.3E4	3.8
1.2c	1.2E4	3.7E4	3.3
1.2d	7100.	2.1E4	1.9
1.2e	3400.	1.0E4	0.9
1.2f	1400.	4200.	0.4

OTHER SAMPLES LESS THAN MDA

TABLE E3. 1

ENVIRONMENTAL SAMPLING DATA (T = 08:00) (11:00)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
.5F	7400.	7600.	0.7
.5E	1.4E4	1.4E4	1.3
.5D	2.4E4	2.4E4	2.2
.5C	3.4E4	3.4E4	3.0
.5B	3.6E4	3.6E4	3.2
.5A	3.7E4	3.8E4	3.4
.5CL	3.8E4	3.9E4	3.4
.5a	3.7E4	3.8E4	3.4
.5b	3.6E4	3.6E4	3.2
.5c	3.4E4	3.4E4	3.0
.5d	2.4E4	2.4E4	2.2
.5e	1.4E4	1.4E4	1.3
.5f	7400.	7600.	0.7
Main_tng	29.	31.	< 0.1
1F	2200.	2200.	0.2
1E	4600.	4600.	0.4
1D	9100.	9200.	0.8
1C	1.5E4	1.5E4	1.4
1B	1.7E4	1.7E4	1.5
1A	1.8E4	1.8E4	1.6
1a	1.8E4	1.8E4	1.6
1.5F	920.	1900.	0.2
1.5E	2100.	4800.	0.4
1.5D	4600.	1.0E4	0.9
1.5C	8300.	1.9E4	1.7
1.5B	1.0E4	2.4E4	2.1
1.5A	1.1E4	2.6E4	2.3
1.5CL	1.2E4	5.2E4	4.6
1.5a	1.1E4	2.6E4	2.3
1.5b	1.0E4	2.4E4	2.1
1.5c	8300.	1.9E4	1.7
1.5d	4600.	1.0E4	0.9
1.5e	2100.	4800.	0.4
1.5f	920.	1900.	0.2
2F	490.	2000.	0.2
2E	1200.	5300.	0.5
2D	2800.	1.2E4	1.1
2C	5300.	2.4E4	2.1
2B	7200.	3.2E4	2.9
2A	8100.	3.6E4	3.2

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TABLE E3. m

ENVIRONMENTAL SAMPLING DATA (T = 08:00) (11:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
2CL	8500.	3.8E4	3.4
2a	8100.	3.6E4	3.2
2b	7200.	3.2E4	2.9
2c	5300.	2.4E4	2.1
2d	2800.	1.2E4	1.1
2e	1200.	5300.	0.5
2f	490.	2000.	0.2
2.5F	290.	1700.	0.2
2.5E	790.	5200.	0.5
2.5D	1900.	1.3E4	1.1
2.5C	3800.	2.5E4	2.3
2.5B	5500.	3.7E4	3.3
2.5A	6200.	4.2E4	3.7
2.5CL	6600.	4.4E4	3.9
2.5a	6200.	4.2E4	3.7
2.5b	5500.	3.7E4	3.3
2.5c	3800.	2.5E4	2.3
2.5d	1900.	1.3E4	1.1
2.5e	790.	5200.	0.5
2.5f	290.	1700.	0.2
3F	190.	1400.	0.1
3E	540.	4300.	0.4
3D	1300.	1.1E4	1.0
3C	2800.	2.3E4	2.0
3B	4300.	3.6E4	3.2
3A	5000.	4.1E4	3.7
3CL	5400.	4.4E4	3.9
3a	5000.	4.1E4	3.7
3b	4300.	3.6E4	3.2
3c	2800.	2.3E4	2.0
3d	1300.	1.1E4	1.0
3e	540.	4300.	0.4
3f	190.	1400.	0.1
4F	89.	1200.	0.1
4E	290.	4000.	0.4
4D	790.	1.1E4	1.0
4C	1800.	2.5E4	2.2
4B	3000.	4.2E4	3.8
4A	3600.	5.2E4	4.6
4CL	3900.	5.5E4	4.9

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TABLE E3. m

ENVIRONMENTAL SAMPLING DATA (T = 08:00) (11:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
4a	3600.	5.2E4	4.6
4b	3000.	4.2E4	3.8
4c	1800.	2.5E4	2.2
4d	790.	1.1E4	1.0
4e	290.	4000.	0.4
4f	89.	1200.	0.1
4.5F	66.	1000.	< 0.1
4.5E	220.	3600.	0.3
4.5D	640.	1.0E4	0.9
4.5C	1500.	2.4E4	2.2
4.5B	2600.	4.3E4	3.8
4.5A	3200.	5.3E4	4.7
4.5CL	3400.	5.7E4	5.1
4.5a	3200.	5.3E4	4.7
4.5b	2600.	4.3E4	3.8
4.5c	1500.	2.4E4	2.2
4.5d	640.	1.0E4	0.9
4.5e	220.	3600.	0.3
4.5f	66.	1000.	< 0.1
5F	43.	740.	< 0.1
5E	160.	2800.	0.2
5D	470.	8600.	0.8
5C	1100.	2.1E4	1.8
5B	2100.	3.8E4	3.3
5A	2600.	4.8E4	4.3
5CL	2800.	5.2E4	4.6
5a	2600.	4.8E4	4.3
5b	2100.	3.8E4	3.3
5c	1100.	2.1E4	1.8
5d	470.	8600.	0.8
5e	160.	2800.	0.2
5f	43.	740.	< 0.1
6F	22.	420.	< 0.1
6E	84.	1700.	0.2
6D	270.	5500.	0.5
6C	680.	1.4E4	1.2
6B	1300.	2.7E4	2.4
6A	1700.	3.5E4	3.1
6CL	1800.	3.9E4	3.5
6a	1700.	3.5E4	3.1

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TABLE E3. m

ENVIRONMENTAL SAMPLING DATA (T = 08:00) (11:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION		GROUND DEPOSITION
	iodine	total	
	(pCi/kg)	(pCi/kg)	(cpm/100cm2)
6b	1300.	2.7E4	2.4
6c	680.	1.4E4	1.2
6d	270.	5500.	0.5
6e	84.	1700.	0.2
6f	22.	420.	< 0.1
7F	7.0	170.	< 0.1
7E	34.	800.	< 0.1
7D	120.	2900.	0.3
7C	340.	7800.	0.7
7B	670.	1.6E4	1.4
7A	900.	2.1E4	1.9
7CL	1000.	2.4E4	2.1
7a	900.	2.1E4	1.9
7b	670.	1.6E4	1.4
7c	340.	7800.	0.7
7d	120.	2900.	0.3
7e	34.	800.	< 0.1
7f	7.0	170.	< 0.1
8F	0.8	19.	< 0.1
8E	4.0	97.	< 0.1
8D	15.	370.	< 0.1
8C	43.	1000.	< 0.1
8B	90.	2100.	0.2
8A	130.	2900.	0.3
8CL	140.	3400.	0.3
WNP4	19.	21.	< 0.1
1CL	1.8E4	4.1E4	3.6
1b	1.6E4	3.6E4	3.2
1c	1.2E4	2.8E4	2.5
1d	6700.	1.5E4	1.3
1e	3400.	7300.	0.7
1f	500.	830.	< 0.1
1.2F	1500.	3100.	0.3
1.2E	3300.	7400.	0.7
1.2D	6700.	1.5E4	1.3
1.2C	1.2E4	2.6E4	2.3
1.2B	1.3E4	3.0E4	2.7
1.2A	1.5E4	3.3E4	2.9
1.2CL	1.5E4	3.3E4	3.0
1.2a	1.5E4	3.3E4	2.9

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TABLE E3. m

ENVIRONMENTAL SAMPLING DATA (T = 08:00) (11:00)
(continued)

OFFSITE MONITORING LOCATION	LEAFY VEGETATION iodine (pCi/kg)	LEAFY VEGETATION total (pCi/kg)	GROUND DEPOSITION (cpm/100cm2)
1.2b	1.3E4	3.0E4	2.7
1.2c	1.2E4	2.6E4	2.3
1.2d	6700.	1.5E4	1.3
1.2e	3300.	7400.	0.7
1.2f	1500.	3100.	0.3

OTHER SAMPLES LESS THAN MDA

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CONTROL CELL**

CONTROL CELL

OPERATIONS

SECTION

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)_____CONTROL CELL_____

EMERGENCY INFORMATION - MEDIA AND RUMOR CONTROL

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

POINTS OF REVIEW

10.6 Were staff and equipment available at the media center to deal with telephone inquiries from the media? **(Control Cell)**

YES ___ NO ___ N/A ___

(a) Did telephone staff provide prompt, accurate, consistent, and responsive information to media representatives?

YES ___ NO ___ N/A ___

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

POINTS OF REVIEW

11.5 Did the rumor control staff provide prompt, accurate, consistent, and responsive information to callers? **(Control Cell)**

YES ___ NO ___ N/A ___

11.6 How many calls were received by the rumor control staff during the exercise? **(Control Cell)**

_____

(a) Based on the number of calls received, record the average number of calls handled per hour during the period rumor control staff were activated.

_____

CONTROL CELL OPERATIONS
Exercise 93

A. **GENERAL:** The control cell is made up of controllers, whose function it is to role-play as the various agencies and individuals not activated for the drill, but with whom the players would normally interface. Communications are initiated both ways. For example, a MUDAC player may need to call the National Weather Service for a weather forecast. Instead he should contact the control cell where a controller, role-playing as a forecaster, would read from a data sheet the "canned" drill weather. Also, controllers may call one of the emergency centers with a scenario message input. Most of the calls, however, will be initiated by controllers to the centers heavily committed to outside interfaces, *e.g., JIC phone teams.*

B. **PARTICIPATING AGENCIES:** The control cell should not represent organizations or individuals activated for the drill. Those include:

1. All Plant emergency centers
2. The EOF, with possibly limited personnel from State, counties.
3. The Headquarters/JIC, including State and possibly counties.

C. **METHODOLOGY**

1. Incoming calls:
   a. Try to keep designated lines clear of other traffic.
   b. Answer by stating the phone number and "This is an Exercise." Then ask, "To whom do you wish to speak?"
   c. Portray the agency/individual being called as realistically as possible.
   d. Terminate the conversation with the phrase, "This is an Exercise."
2. Outgoing calls:
   a. We are reducing the need for pre-scripted messages. Instead:
      1) Assume an assigned personality from Enclosure 1. Do not use names of real people.

2) Formulate a call with questions based on designated rumors, EBS broadcasts, news releases, lead controller assigned topics and other information provided by players. At the end of each section in Enclosure 1, there are a few practical examples of how you should formulate your questions.

3) Make the call. Start and end each call with the statement, "This is an Exercise."

4) Log the call at Enclosure 2. Include *all specifics* of any call not evaluated as satisfactory.

5) For public information calls, remember local media will react first. The public will react to what they hear from the media.

6) Make calls plausible. Switch personalities as appropriate.

7) Try to keep phone talkers busy with information search requirements. Request call backs and follow up on open items.

8) The FEMA standard is 5 or 6 phone calls per person *(player)* per hour, including periodic rumors. Phone team members should be able to:

- Answer questions by reading from news releases and radio announcements *(EBS messages)* at hand;
- Look up information in resource books and read/repeat such information [1];
- Dispel rumors based on emergency calendar, farm brochures, EBS messages and news releases.

[1] The Table of Contents in the resource book has been redone for easier access to information by users.

Phone teams should not speculate or answer *'what if'* questions. FEMA has indicated to the Supply System that most phone calls would be because they *(the callers)* didn't hear the EBS message. The phone teams should expect to get a great volume of the same exact question. FEMA has indicated that it would be **totally inappropriate** to expect phone team members to explain or to discuss any technical information or issues. In addition, information need not be memorized, but team members should be able to look up information and to read directly from the resource book. FEMA has also suggested that if repeat questions occur *(more than three calls asking the same question)*, obviously the public is interested in knowing. Therefore, steps should be taken to get answers included in press releases, etc.

D. **NEWS CONFERENCES:** Designated controllers will attend JIC news conferences to role play as media. They are to adhere to the criteria above for outgoing calls.

E. **NEWS CLIPPINGS:** JIC phone team controllers, be prepared to write news stories on the event for processing by the JIC staff. Use Enclosure 3.

F. **NRC CALLS:** Keep players busy researching answers to specific questions. Imagine what it really would be like!

G. **CRITIQUE:** Write up critique work sheets for favorable and unfavorable observations, based on phone call and news conference evaluations, and turn them in to the lead controller.

H. **TELEPHONE NUMBERS:**

1. NRC:

o	TSC Plant/NRC Liaison	2943
o	EOF Licensing Manager	8087

2. JIC:

o	Media Response Team	5100
o	Public Information Team	5011

CONTROL CELL OPERATIONS
CONTROLLER PERSONALITIES
Exercise 93

1. **Television:**

   a. KDTV Channel 88--Tri-Cities. Local TV station. You're young, ambitious, and want to make a name for yourself. Dan Rather or Connie Chung is your role model. You see the Tri-Cities as a stepping stone to bigger things. You would like to be aggressive but know your employer and audience are sympathetic to Hanford so you have to be careful how you make a splash.

   b. KDKT Channel 34. Local TV (see KDTV, above) You're the same but more aggressive. You're the kind who would send a crew to location without asking for permission. If asked to leave, you'd read them your rights. "Police can't interfere with normal news gathering in public places. The people have a right to know." Leave only when threatened with arrest by Hanford Patrol or if seduced with better opportunities by the Public Relations staff. The way you are treated will color your story.

   c. KPPR Channel 99. Local TV station. You don't have too much invested in your career. You see you're not going to go very far in broadcasting. You feel pretty neutral about Hanford. You know it's not anywhere as bad as you sometimes read in west side papers.

   d. KTAC Channel 2. Seattle-Tacoma TV. You want television footage but you can't afford to send a crew over. Being broadcast media you don't have much time for detail, you want drama.

   e. KSEA Channel 4. Seattle. WOW! This is a great story. Hanford Terror. You want pictures. You are going to send your camera crew over by helicopter in about two hours. You hear that Supply System Security has an armored car. You want to take pictures of blood and guts, if not that then a look of pure terror in a child's face will do. You understand that TV news is entertainment. You're not in competition with the newspapers and other news shows, you're in competition with "The Equalizer," "Miami Vice," and "Tour of Duty."

Practical Examples of TV Personalities

- Wanda Wilson, KVEW TV--"We would like to bring a camera crew out to Plant 2. What's the probability of getting some video shots? Where can we shoot film? When our crew gets out there, who would be available to talk to us? How about anyone from the NRC? The Supply System regularly holds news conferences in the Headquarters auditorium, right? When's the next one? What's the situation at the Plant right now?"

- Sandy Spencer--KNDU TV, TriCities. "Has the NRC involved itself in the situation? . . . What is it doing? . . . Do you have the names of those representatives? . . . Any chance I can talk to one of them? . . . How about the state of Washington? . . . Who is down from the Governor's office? What's the latest condition at Plant 2? . . . Who makes the next decision about what to do next? - The State or the NRC? . . . Someone mentioned a group called FEMA . . . I'm not familiar with that . . . Who is it and what do its people do? . . . Are FEMA people there now, too?"

- Joe Johnson--KREM TV, Spokane. "Has the snow dropped off yet? . . . What kind of damage did it do? In connection with the problems at the Plant, what effect did the snow have? What's the current situation there? Where are you headed next? Who's in charge of the problem? . . . What is his regular role at the Supply System? . . . What's his background? . . . Can you tell me how long he has been with the Supply System?"

- Vicki Veneer--CBS TV News Network. "I'd like to get more information about Plant 2. What is the present situation? What is being done about it? Please give me the names of the people making the decisions about the actions to be taken . . . Give me some background on these decision-makers. Is anyone from the NRC personally monitoring the situation? May I have their names, please? What other federal or state agencies are activated? Are any representatives from Idaho or Oregon present? . . . Why *(or Why Not)*?"

- Karen Kanderly--KOMO TV. "We're hearing the situation has deteriorated to the point that the area agricultural industry could be impacted seriously . . . Crops have been buried . . . deadened soil . . . Things like that . . . "

- KHG TV, Spokane. *(Somewhat aggressive)* "We've been trying all day to get an interview with your Plant Manager. WHEN are we going to get some cooperation? . . . It seems to us that *WHOOPS* might want to put their best expert forward at a time like this . . . someone who is really going to know what's going on. Can we go to your plant and look at it for ourselves? . . . So, we can't talk to your Plant Manager and we can't go to your plant . . . What are you folks trying to hide?" . . . *(Challenge the qualifications of*

anyone they offer as a substitute spokesperson, e.g. - What is his/her background with nuclear energy?- this person isn't going to know Plant 2 like the Plant Manager does, etc.)

- o Joan Justy--CBS TV News Network. "Tell me about the airplane engine falling on your plant . . . Apparently American nuclear power plants are susceptible to falling objects even as small as an airplane engine? . . . Aren't the airspaces over these plants protected? . . . Has anyone considered what would happen if a bomb were dropped? . . . You sound pretty vulnerable . . . Has anyone got the footage of the engine falling on the plant?"

- o Brad Burke--KING TV, Seattle. "I've received a report that very high radiation dose readings were taken at someplace called the Ashe Substation . . . I presume the substation is a part of the Bonneville Power Grid System, correct? . . . Where is it located in relation to your Plant 2? . . . Who took those readings, what were those readings, and what is the significance of those readings? . . . How often are dose readings taken? . . . Tell me a little bit more about your field teams taking the readings . . . "

- o Rickie Romanovich--KOMO TV, Seattle. "What role is the NRC playing in this incident? . . . can you give me the names of any NRC people activated on site? . . . Has the NRC gone on record with any statement about conditions at Plant 2? . . . Have they said anything about the future of the American nuclear industry in light of the event at Plant 2? Would you take a moment to describe the Plant to me . . . It contains a Boiling Water Reactor, doesn't it? What else can you tell me about the physical makeup of the plant?"

2. **Radio:**

a. WWPZ Radio--Tri Cities. You're older, mature. You know your radio career will probably never take you beyond the Tri-Cities. That's fine because you like it here. A lot of your friends work at Hanford. You know many of the PR people well and know a lot about Hanford. You know they are good folks. You use your reporting as a means to, as much as possible, build a strong community.

b. KOZY Country Radio--Tri-Cities. You don't have much air time for news. It's something you stick in between Dolly and Kenny Rogers.

c. KRZY Rock FM--Tri-Cities. See KOZY (#b), but substitute Def Lepard and Kiss for Dolly and Kenny.

d. National Non-Commercial Radio--You are the reporter for intellectuals. You are interested in the social consequences of government activities. Does a news event represent a trend for the future? What were the underlying causes of the event? Is the event ultimately good even though it looks bad now? Will it teach us something?

3. **Print:**

a. Columbia Basin Chronicle--Local newspaper. Your editorial policy is friendly to Hanford. You see yourself as a first class science reporter and expect to one day report for a more prestigious paper. You tend to go for a science angle.

b. Spokane Banner--Northwest Regional Paper. God knows what all is going on down there at Hanford. It seems like every rock you uncover down there has a toxic chemical or radioactive rattlesnake under it. You don't know much about modern warfare, world politics, nuclear energy, or technology and you basically distrust those who do. Hanford is especially worrisome. What are they hiding?

c. Seattle Post-Dispatch--Major Northwest Paper. You need flamboyant headlines. Your paper is not so much in to what is true as it is in what sells. You want stories about people and what happens to them. You don't want too many details about science. You don't care about reasons for things, you just want to know what happens to people. You want details of injuries, you want to know personalities, you want to know how people FEEL about things. You don't report about the danger that people are in, you report about how in-danger people FEEL. This makes reporting easy. You don't have to get expert opinion. You can ask the man on the street and his opinion is nearly as good as the governor's.

d. Seattle Prestige Journal--Major Northwest Paper. You want controversy. It doesn't much matter where it comes from, just get it. Find somebody who is upset about something, state his reasons and opinion and then go find another opinion. You like important people--opposing politicians, opposing government agencies, big shots are best. As long as one side of the argument is important it's okay. DOE against a nobody is a story because DOE is important.

e. Associated News--Wire Service. Just the facts. Who did what to who. Who announced what. Ask these questions every time: Who? What? Where? When? How? and Why? Remember, your selling your material to other news media. You have to be very professional. They don't give a hoot about your opinion.

f. United News--Wire Service. See notes on Associated News. The same applies, only you are from the Walla Walla bureau and are pretty well informed on Hanford but don't know too much about Battelle.

g. New York Daily Planet--You're the best. The news is what the New York Daily Planet says is news. All the other papers follow your lead. You know this but are very modest and professional about it. You're interested in the facts of the issue at hand but want lots of background. What led up to the event? What are the likely consequences? Will there be legislative action? What philosophy is guiding the courses of action taken by decision makers? How did the DOE allow this kind of situation to occur?

h. Portland Post--Northwest Major Newspaper. You want to be fair. You want to report both sides of every question. You don't know too much about DOE.

i. American Enquirer--National Tabloid. You don't really want news. You want lurid details. You can make most of them up, but sometimes it's nice to have real photos even if they have to be retouched.

Practical Examples of Newspaper Personalities

o Sandra Smith--UPI, Seattle. "I understand the whole problem at Plant 2 began when pump motors caught fire . . . Well, what started the fire? What about the truck fire earlier? Any question of sabotage? About 20 minutes later your reactor shutdown, correct? . . . What was the connection between the fire and the scram? Who has been contaminated? What is your injury status? How much fuel damage did you experience? Anything else to add?"

o Ronald Reeber--LA Times. "What can you tell me about radiation levels at your plant? Where has the contamination spread? Have Plant personnel been evacuated? Any injuries? Is the NRC going to step in and take over things? What have they been saying? What are the names of the NRC representatives there? Well, things must be pretty serious with the NRC in place. How do things forebode for your nuclear plant in the future? How about ramifications for the nuclear industry?"

o Mary King--UPI Seattle. "Tell me more about why a Site Area Emergency was declared? What are the conditions that require an emergency of this level? There are several classifications, aren't there? . . . Detail them, please. What has been the progression of these classifications at Plant 2? Where will you go next?

- Mandy Motoya--TriCity Herald. "It's my understanding this whole situation started with a fire in something called a standby service water pumphouse. What exactly is its function and why is it important to the Plant? . . . Wasn't a backup safety system in place? . . . How was the radiation released? . . . For years you've been telling the public radiation releases will never occur at an American nuclear power plant, what is Plant 2's position now?"

- George Gupper--Time Magazine. "How extensive are the damages to your plant? . . . Has any other commercial nuclear power plant in America experienced the same sort of problems? . . . You seem to have had a bad string of luck today, first with the diesel truck fire, then the faulty equipment and now with the plane engine dropping on the reactor building. How do you explain that? . . . Aren't America's commercial nuclear power plants supposed to withstand all sorts of disasters - earthquakes, fires, things like that? . . . How do you think Plant 2 speaks to the record?"

- Melissa Meeker--Seattle Times. "When do you expect repairs to Plant 2 to be complete? . . . What methods of restraint are in place at the Plant now? . . . What is being done to reduce the seriousness of the situation? What outside agencies are playing a role in restoration of the site? How extensive are damages now? Has anyone put a dollar amount on the damage?"

- Manly McGinnis--Aberdeen Daily World. "Did a plane crash into you plant? . . . What happened? . . . Who's involved in evaluating this new situation? . . . Injuries? . . . What about evacuations? - Does that mean the Columbia River could be contaminated to some extent? . . . I'd like to know the environmental impact should the river be exposed to a radioactive plume?"

- Fred Frew--Olympia News. "Let's talk a bit about reparative measures at Plant 2 . . . Do you speculate you'll be bringing in outside expertise from General Electric and Westinghouse? . . . Who was your construction contractor? . . . There will be some construction on site, won't there? What's the extent of physical damages to the building? How long do you think it would take the Plant to get back in operation?"

- Rene Reis--Everett Herald. "Is it true some fuel was uncovered when the airplane engine landed in your reserve fuel water containment system? . . .How much water was splashed out with the impact? . . . It is possible quite a bit of water could have been splashed out . . . How big was the airplane engine? . . . Do you have cubic measurements or weight? What is happening to the radiation level now . . . Does that indicate the nature of the exposure?"

- o Jim DellaSelva--Grants Pass Guardian. "Where's the radiation headed? . . . Any changes in weather conditions expected to affect the situation? . . . What would happen if a storm occurred? - And if it rained? What are the weather conditions right now? What's the forecast for the next couple of days? How long will you restrain evacuated residents from returning to their homes? . . . The weather plays a factor in that decision, too, doesn't it? If the wind stirs up, other areas could be evacuated also, right? . . . Where would you put them? . . . What is *WHOOP's* obligation to these residents? Who pays for their food and medicine involved with the evacuation? What about looters?"

- o Bob Brown--The New York Times. "Since these sort of catastrophes are not supposed to occur at commercial nuclear power plants, why is it this one has - to this magnitude - at your plant? . . . What explanation has been given to the American public about this? . . . It doesn't look too good for your plant management, does it? . . . Who is your Chief Executive Officer? . . . May I speak to him, please? . . . Who, in charge, may I speak to? How long have you been in the nuclear power business? . . . What's your background? . . . Does that make you an authority on commercial nuclear power plants? . . . You have quite a responsibility speaking for the Plant, considering your background, don't you?"

4. **Officials**

   a. Richland School District

   b. Pasco School District

   c. Hospital

   d. Adjacent counties--Grant, Yakima, Walla Walla

   e. Senator Wisenhut's Aide--Generally hostile to Hanford

   f. Congressman Gold's Aide--Friendly congressman

   g. NRC--Any personality you have met in this role

   h. Others as appropriate

5. **Local Population**

a. Worried Spanish-Speaker--Worried about something; make it sound plausible.

b. Local Nut--Knows how to handle these kinds of situations. Wants to help. Ex-professor, ex-cop, ex-nurse, ex-psychologist, ex-whatever sounds good for the situation. Happy to help out if you want.

c. Local Busybody--Wants to explain personal opinions about issues and what the government/town/people ought to do about it. Tries to hold the attention of whom called for as LONG as possible.

d. Richland day care center operator (outside 10 mile EPZ)

e. Kennewick convalescent home operator (outside 10 mile EPZ)

f. Potential looter--looking for tactical information

g. Concerned citizen

h. Employee's spouse

i. Parent of a child on tour of the WNP-2 Visitor center

j. Resident worried about garden

k. Resident worried about cattle and milch cows

l. Residents worried about missing relatives that live in the evacuation/shelter area

m. Residents worried about what they ate from the neighbour's garden today

n. People calling wanting transportation

o. People calling in because they didn't hear the radio message

p. Residents who want to know who is covering expenses from losses

q. People who lost the calendar wanting to know what to take with them when they leave

r. Mothers wanting to know where their school children are

s. Someone wants to know what the difference in classifications means

t. Others, as appropriate

Practical Example of a Local Populace Personality

- Wife of Plant 2 HP-Chemist. "Why isn't my husband back home? I heard on the radio all unnecessary personnel are being sent home. Where is Mark?"

  "You can't tell me that you don't know what's going on out there"

  "Why won't you tell me where Mark is? Is he one of the injured people I heard about?"

  "Injuries are the types of things press people should know about. Tell me if Mark is among them!"

  "Are you hiding something? You media people know everything!"

  "Don't give me the run-around. Mark's been a loyal employee for three years. Is this how you pay us back?"

CONTROL CELL OPERATIONS
CONTROL CELL PHONE LOG
EXERCISE 93

Controller:_____ Page _____ of _____ Pages

NOTE: *Include all relevant specifics of any response evaluated as unsatisfactory.*

Individual/Team called and the time called	Personality of responder and evaluation (S/U)	Substance of Inquiry (number of message or version of used)	Substance of Response

EVALUATION WORKSHEET INSTRUCTIONS

EVALUATOR NAME	ORGANIZATION

EVALUATION QUESTION WORKSHEET FOR:

(List the Center [&/or] Team (&/or] Personnel involved)

ALL CONTROLLERS & EVALUATORS READ THE FOLLOWING

The evaluation section of the drill/exercise package includes a 'custom-tailored' Time-Line Worksheet and Evaluation Criteria Worksheets prepared for each of the following centers &/or functions . . .

-Control Room (CR Simulator)
-Technical Support Center
-Supply System Decision Center
-EOF Communications Center
-Technical Data Center
-JIC
-Operations Support Center
-Central Alarm Station (& Site Security)
-Security Decision Center
-MUDAC
-Field Teams
-Health Physics Center

The Time-Line Worksheet for each center is followed by the appropriate Evaluation Criteria Worksheets. The Time-Line Worksheets are for indicating the time specific actions or events took place in your center. The Evaluation Criteria Worksheets apply to ALL centers or to specific centers as indicated at the top of the form. The evaluation statements, or 'Points of Review', address specific items that the controller/evaluators need to look for. If a specific evaluation criteria is NA, mark it as such. If not, mark whether it was demonstrated or not. Controllers & Evaluators are responsible for filling out the appropriate Evaluation Criteria Worksheets for their appropriate Center &/or Function. It must be understood that the Supply System does not intend to perform evaluation of the performance of Non-Supply System agencies participating in this Drill . . . *for example, Dept Of Health personnel participating in the TDC and MUDAC.*

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TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CONTROL ROOM *(Simulator)***

TIME	EVENT
_____	Drill Start Plant PA Announcement completed
	Unusual Event
_____	UE - EAL recognized by PED
_____	UE - Declared by PED
_____	UE - Crash Call completed
_____	UE - Alerting Tone sounded
_____	UE - Plant PA Announcement completed
_____	UE - PA Announcement of hazards
_____	UE - NRC Notification completed
	Alert
_____	ALERT - EAL recognized by PED
_____	ALERT - Declared by PED
_____	ALERT - Crash Call completed
_____	ALERT - Alerting Tone sounded
_____	ALERT - Plant PA Announcement completed
_____	ALERT - PA Announcement of hazards
_____	ALERT - NRC Notification completed
	Site Area Emergency *(if applicable)*
_____	SAE - EAL recognized by PED
_____	SAE - Declared by PED
_____	SAE - Crash Call completed
_____	SAE - Alerting Tone sounded
_____	SAE - Plant PA Announcement completed
_____	SAE - PA Announcement of hazards
_____	SAE - NRC Notification completed
	General Emergency *(if applicable)*
_____	GE - EAL recognized by PED
_____	GE - Declared by PED
_____	GE - Crash Call completed
_____	GE - Alerting Tone sounded
_____	GE - Plant PA Announcement completed
_____	GE - PA Announcement of hazards
_____	GE - NRC Notification completed

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CONTROL ROOM *(Simulator)*** *(cont'd)*

TIME	EVENT
	Other Items Warranting Input *(if applicable)*
_____	Shift Manager/PED passed control to On-Call PED
_____	PED change-over to On-Call PED announcement made in CR
_____	Protected Area Evacuation order Plant PA announcement made *(specify area and type)*
_____	Information Coordinator arrived
_____	Control Room communicator arrived
_____	
_____	
_____	
_____	
_____	
_____	Simulator staff secured Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) CONTROL ROOM

1. Demonstrate the ability for the Shift Manager and the control room operators to recognize abnormal events, determine plant conditions and bring the plant into a safe shutdown mode (82301-03.02.01b.1.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the control room operators to correctly implement the immediate actions of the Emergency Plan Implementing Procedures (82301-03.02.01b.1.b)

   YES ___ NO ___ N/A ___

3. Demonstrate the ability of the control room operators to classify the emergency using the Emergency Action Levels (EALs) and determine the necessary onsite and offsite protective actions without waiting for dose assessment (82301-03.02.01b.1.c)

   YES ___ NO ___ N/A ___

4. For a Site Area or General Emergency, demonstrate the ability of the control room to evacuate nonessential personnel and initiate protective actions for all personnel remaining on site (82301-03.02.01b.1.e)

   YES ___ NO ___ N/A ___

5. Demonstrate the ability of the control room to promptly notify onsite personnel of emergency events, conditions or actions (82301-03.02.01b.1.f)

   YES ___ NO ___ N/A ___

6. Demonstrate the ability of the control room to promptly notify offsite officials of emergency events, conditions or actions (82301-03.02.01b.1.g)

   YES ___ NO ___ N/A ___

7. Demonstrate the ability to make Secondary Alarm Station (SAS) and NRC notifications in a timely manner.

YES ___ NO ___ N/A ___

8. Demonstrate the timely and systematic transfer of the Plant Emergency Director (PED) duties.

YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **OPERATIONS SUPPORT CENTER**

TIME	EVENT
_____	Alert Plant PA Announcement heard
_____	OSC Director assumes command
_____	OSC Director announces to OSC Staff he has assumed command
_____	OSC declared activated
_____	Protected Area evacuation Plant PA announcement heard in OSC *(specify area and type)*
_____	Initial Habitability monitoring conducted
_____	First Reentry Team dispatched from OSC to *(specify area & task)*
_____	Dispatched Reentry Team to measure rad readings in Protected Area
_____	Communications Support personnel arrive from EOF
_____	OSC assumes responsiblity for PET direction and control *(relieves CR)*
_____	Initial accountability declared complete by OSC
_____	
_____	
_____	
_____	
_____	
_____	OSC Staff secure from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

____ Issued appropriate instructions to staff
____ Conducted staff meetings and briefings, as necessary
____ Resolved jurisdictional or decision-making authority conflicts
____ Provided leadership in decision making
____ Involved staff in decision making
____ Directed coordination with other jurisdictions
____ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) OSC, TSC, MUDAC

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

POINTS OF REVIEW

5.1 Were the direct-reading dosimeters zeroed and/or the initial readings recorded prior to deployment?

YES ___ NO ___ N/A ___

5.2 Were emergency workers aware of their maximum authorized mission exposure limit?

YES ___ NO ___ N/A ___

(a) If yes, what exposure limit did they indicate?

_____

5.3 Were emergency workers authorized to terminate their mission by their own decisions if a turn-back value was reached?

YES ___ NO ___ N/A ___

(a) What turn-back value(s) did they use?

_____

(b) Whom would they contact? Specify individual by title and organization.

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) OSC, TSC, MUDAC

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

POINTS OF REVIEW

5.4 Did emergency workers monitor their own exposure?

YES ___ NO ___ N/A ___

(a) If yes, were dosimeters read at critical points as dictated by area conditions or the potential for exposure?

YES ___ NO ___ N/A ___

(b) Was personal dosimetry worn in the proper location?

YES ___ NO ___ N/A ___

5.5 Were emergency workers made aware of the potential need to take potassium iodide (KI) for thyroid blocking?

YES ___ NO ___ N/A ___

5.6 Were emergency workers, who were assigned special missions, briefed regarding higher dose limits authorized for these assignments?

YES ___ NO ___ N/A ___

(a) Was any special administrative approval required for these higher dose limits?

YES ___ NO ___ N/A ___

5.7 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____OSC_____

1. For Alerts, Site Area and General Emergencies, demonstrate that the OSC can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency.

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the OSC to effectively communicate with the EOF, TSC and repair teams, and adequately brief, track and debrief teams dispatched from the OSC.

   YES ___ NO ___ N/A ___

3. Demonstrate the ability to implement emergency exposure guidelines for onsite emergency workers as necessary

   YES ___ NO ___ N/A ___

4. Demonstrate the ability to maintain appropriate radiological controls in the Protected Area throughout the course of the event.

   YES ___ NO ___ N/A ___

5. Demonstrate the ability to provide respiratory protection and contamination control in the Protected Area.

   YES ___ NO ___ N/A ___

6. Demonstrate the ability to respond to and analyze simulated elevated airborne and direct radiation measurements in the Protected Area environment.

   YES ___ NO ___ N/A ___

7. Demonstrate the ability to monitor OSC habitability.

   YES ___ NO ___ N/A ___

8. Demonstrate the ability to maintain accountability for all on-site personnel for the duration of the emergency event.

   YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____OSC_____

9. Demonstrate the ability of the OSC Director to command and coordinate OSC activities with the CR and TSC.

YES ___ NO ___ N/A ___

10. Demonstrate the ability to communicate technical information to the TSC and CR.

YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team (&/or] Personnel involved) **TECHNICAL SUPPORT CENTER**

TIME	EVENT
_____	TSC Declared activated
_____	On-Call PED assumes control from Shift Manager/PED
_____	On Call PED announces his assumption of PED duties from SM over Plant PA
	Site Area Emergency *(if applicable)*
_____	SAE - EAL recognized by PED
_____	SAE - Declared by PED
_____	SAE - Crash call completed
_____	SAE - Alerting Tone sounded
_____	SAE - PA announcement completed
_____	SAE - NRC notification completed
_____	SAE - direction to commence controlled evacuation given
	General Emergency *(if applicable)*
_____	GE - EAL recognized by PED
_____	GE - Declared by PED
_____	GE - Crash call completed
_____	GE - Alerting Tone sounded
_____	GE - PA announcement completed
_____	GE - NRC notification completed
	Other Items Warranting Input *(if applicable)*
_____	PED passed RM duties to on-call EOF RM
_____	PA announcement of RM duties now being assumed by on-call EOF RM
_____	TSC Director informed of habitability status of TSC
_____	PED informed of establishment of road blocks
_____	
_____	
_____	TSC Staff secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) ALL

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) ALL

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) OSC, TSC, MUDAC

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

POINTS OF REVIEW

5.1 Were the direct-reading dosimeters zeroed and/or the initial readings recorded prior to deployment?

YES ___ NO ___ N/A ___

5.2 Were emergency workers aware of their maximum authorized mission exposure limit?

YES ___ NO ___ N/A ___

(a) If yes, what exposure limit did they indicate?

_____

5.3 Were emergency workers authorized to terminate their mission by their own decisions if a turn-back value was reached?

YES ___ NO ___ N/A ___

(a) What turn-back value(s) did they use?

_____

(b) Whom would they contact? Specify individual by title and organization.

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) OSC, TSC, MUDAC

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

POINTS OF REVIEW

5.4 Did emergency workers monitor their own exposure?

YES ___ NO ___ N/A ___

(a) If yes, were dosimeters read at critical points as dictated by area conditions or the potential for exposure?

YES ___ NO ___ N/A ___

(b) Was personal dosimetry worn in the proper location?

YES ___ NO ___ N/A ___

5.5 Were emergency workers made aware of the potential need to take potassium iodide (KI) for thyroid blocking?

YES ___ NO ___ N/A ___

5.6 Were emergency workers, who were assigned special missions, briefed regarding higher dose limits authorized for these assignments?

YES ___ NO ___ N/A ___

(a) Was any special administrative approval required for these higher dose limits?

YES ___ NO ___ N/A ___

5.7 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) TSC, MUDAC

OBJECTIVE 9: PLUME PROTECTIVE ACTION RECOMMENDATIONS (PARS)

Demonstrate the capability to make timely and appropriate action recommendations (PARs).

POINTS OF REVIEW

9.1 What PARs were made and when were they made? (Types of plume PARs to be addressed include: shelter, evacuation, and use of potassium iodide (KI).

PAR#	TYPE OF PROTECTIVE ACTION	TIME	ECL
____	_____	_____	____
____	_____	_____	____
____	_____	_____	____
____	_____	_____	____
____	_____	_____	____

9.2 Which of the following factors were considered in subsequent PARs? (Please indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Plant conditions and emergency classification level
___ Projected dose based on release estimates and meteorological conditions
___ Projected dose based on plant conditions and emergency action levels
___ Projected dose based on simulated field measurements and meteorological conditions
___ Shelter availability
___ Evacuation time estimates
___ Relative dose savings between evacuation and sheltering
___ Risk from evacuation
___ Weather conditions
___ Other (Specify)_____

9.3 Were appropriate decision makers involved in the PAR process--was the PAD making group effective?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____TSC_____

1. For Alerts, Site Area and General Emergencies, demonstrate that the TSC can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency (82301-03.02.01b.2.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the TSC to assess plant conditions and determine the proper emergency classification (82301-03.02.01b.2.b)

   YES ___ NO ___ N/A ___

3. Demonstrate the ability of the TSC to assess and direct actions to mitigate the consequences of an emergency (82301-03.02.01b.2.b)

   YES ___ NO ___ N/A ___

4. Demonstrate the capability of the Duty Plant Emergency Director (PED) to make timely and effective decisions and demonstrate command and control of the TSC and onsite response effort.

   YES ___ NO ___ N/A ___

5. Demonstrate the ability of the TSC to determine the necessary protective actions for onsite and offsite personnel.

   YES ___ NO ___ N/A ___

6. Demonstrate the ability of the TSC to promptly notify onsite personnel of emergency events, classifications and actions (82301-03.02.01b.2.e)

   YES ___ NO ___ N/A ___

7. Demonstrate the ability to conduct and maintain personnel accountability.

   YES ___ NO ___ N/A ___

8. Demonstrate the ability of the TSC Director to communicate with onsite and offsite emergency response personnel when making decisions and implement corrective actions in an effective and timely manner (82301-03.02.01b.2.g)

YES ___ NO ___ N/A ___

9. Demonstrate the ability of the TSC to communicate technical information to the CR, OSC, EOF and NRC.

YES ___ NO ___ N/A ___

10. Demonstrate the timely and systematic transfer of Recovery Manager duties.

YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **CENTRAL ALARM STATION *(Security)***

TIME	EVENT
_____	Unusual Event radio announcement completed
_____	Alert radio announcement completed
_____	Site Area radio announcement completed
_____	Road blocks implemented
_____	Dosimetry relocated
_____	Accountability computer printout sent to OSC
_____	
_____	
_____	
_____	
_____	
_____	
_____	
_____	CAS staff secured from the Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **SECURITY DECISION CENTER**

TIME	EVENT
_____	Security Decision Center declared activated
_____	SDC secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

____ Issued appropriate instructions to staff
____ Conducted staff meetings and briefings, as necessary
____ Resolved jurisdictional or decision-making authority conflicts
____ Provided leadership in decision making
____ Involved staff in decision making
____ Directed coordination with other jurisdictions
____ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)_____SDC_____

1. For Site Area and General Emergencies, demonstrate that the Emergency Operations Facility (EOF) can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency (82301-03.02.01b.3.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the EOF to set up and maintain a communications channel to offsite authorities and keep them informed of emergency conditions (82301-03.02.01b.3.d)

   YES ___ NO ___ N/A ___

3. Demonstrate the ability to brief offsite representatives at the EOF and keep them informed of emergency conditions (82301-03.02.01b.3.f)

   YES ___ NO ___ N/A ___

4. Demonstrate the ability of the EOF to communicate effectively with corporate headquarters other emergency response personnel and centers and to obtain outside resources in a timely manner, when requested (82301-03.02.01b.3.g)

   YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **EOF COMMUNICATIONS CENTER**

TIME	EVENT
	Unusual Event
_____	UE - EOFCC Crash Calls completed
_____	UE - Part IIA responders identified
_____	UE - Part IIB responders identified
_____	UE - EOF PA announcment completed
_____	UE - Part III notifications complete
	Alert
_____	ALERT - EOFCC Crash Calls completed
_____	ALERT - Part IIA responders identified
_____	ALERT - Part IIB responders identified
_____	ALERT - EOF PA announcment completed
_____	ALERT - Part III notifications complete
	Site Area Emergency
_____	SAE - EOFCC Crash Calls completed
_____	SAE - Part IIA responders identified
_____	SAE - Part IIB responders identified
_____	SAE - EOF PA announcment completed
_____	SAE - Part III notifications complete
	General Emergency
_____	GE - EOFCC Crash Calls completed
_____	GE - Part IIA responders identified
_____	GE - Part IIB responders identified
_____	GE - EOF PA announcment completed
_____	GE - Part III notifications complete
_____	EOFCC Staff secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

____ Issued appropriate instructions to staff
____ Conducted staff meetings and briefings, as necessary
____ Resolved jurisdictional or decision-making authority conflicts
____ Provided leadership in decision making
____ Involved staff in decision making
____ Directed coordination with other jurisdictions
____ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team (&/or) Personnel involved) **SUPPLY SYSTEM DECISION CENTER**

TIME	EVENT
_____	EOF declared activated
_____	PA announcement in EOF that EOF is operational
_____	On-Call EOF-RM assumes command of RM duties from PED
_____	PA announcement in EOF that EOF-RM has assumed duties
_____	PA announcement of hazards
_____	PA Announcement of Classification Changes *(specify type)*
_____	PA Announcement of Classification Changes *(specify type)*

Crash Calls Completed:
Indicate completion time, emergency class, PAD & other major contents

_____ SSDC staff secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)_____SSDC_____

1. For Site Area and General Emergencies, demonstrate that the Emergency Operations Facility (EOF) can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency (82301-03.02.01b.3.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the Recovery Manager to make timely and effective decisions and demonstrate command and control of the EOF functions and overall response effort.

   YES ___ NO ___ N/A ___

3. Upon activation, demonstrate the ability of the EOF to make offsite protective action recommendations (82301-03.02.01b.3.c)

   YES ___ NO ___ N/A ___

4. Demonstrate the ability of the EOF to set up and maintain a communications channel to offsite authorities, including NRC and keep them informed of emergency conditions (82301-03.02.01b.3.d)

   YES ___ NO ___ N/A ___

5. Demonstrate the ability to brief offsite representatives at the EOF and keep them informed of emergency conditions (82301-03.02.01b.3.f)

   YES ___ NO ___ N/A ___

6. Demonstrate the ability of the EOF to communicate effectively with corporate headquarters and other emergency response personnel and centers and to obtain outside resources in a timely manner, when requested (82301-03.02.01b.3.g)

   YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **OFFSITE AGENCY COORDINATION CENTER**

TIME	EVENT
_____	Offsite Agency Coordination Center declared activated
_____	Offsite Agency Coordination Center secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **TECHNICAL DATA CENTER**

TIME	EVENT
_____	Technical Data Center declared activated
_____	Technical Data Center secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) ALL

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)_____TDC_____

1. For Site Area and General Emergencies, demonstrate that the Emergency Operations Facility (EOF) can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency (82301-03.02.01b.3.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the EOF to set up and maintain a communications channel to offsite authorities and keep them informed of emergency conditions (82301-03.02.01b.3.d)

   YES ___ NO ___ N/A ___

3. Demonstrate the ability to brief offsite representatives at the EOF and keep them informed of emergency conditions (82301-03.02.01b.3.f)

   YES ___ NO ___ N/A ___

4. Demonstrate the ability of the EOF to communicate effectively with corporate headquarters other emergency response personnel and centers and to obtain outside resources in a timely manner, when requested (82301-03.02.01b.3.g)

   YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **MUDAC**

TIME	EVENT
_____	MUDAC activated
_____	State MUDAC staff arrive
_____	DOE-RL MUDAC Staff arrive
_____	First Supply System Field Team dispatched from MUDAC
_____	Last Supply System Field Team dispatched from MUDAC
_____	Contact with DOE Radiological Assessment Teams
_____	First MUDAC dose projection completed
_____	Plume definition acheived by MUDAC Staff
_____	First dose projection map submitted by MUDAC staff to REM
_____	First Field Team status map submitted by MUDAC staff to REM
_____	Need for KI evaluated
_____	KI recommendation ("YES" / "NO") to REM

Dose Projection PAR's submitted to REM

list PAR number & time and attach cc of PAR to this worksheet

_____ _____

_____ _____

_____ _____

_____ _____

_____ MUDAC Staff secured from Exercise

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center (&/or) Team (&/or) Personnel involved) **FIELD TEAMS** ***(submit just one sheet)***

TIME	EVENT
_____	All Table B.1 Field Team members present in EOF (6 req'd)
_____	First Field Team ready for deployment. F/T no. _____
_____	Last Field Team ready for deployment. F/T no. _____
_____	First F/T reports reading above background at *(specify grid location of the reading)* _____
_____	River Evacuation F/T at Leslie Groves Park
_____	First air sample ordered. F/T no. _____
_____	First air sample results reported to MUDAC. F/T no. _____
_____	Contamination boundaries established.
_____	Field Teams secured from the Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) ALL

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____
_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____
_____
_____
_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) OSC, TSC, MUDAC

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers.

POINTS OF REVIEW

5.1 Were the direct-reading dosimeters zeroed and/or the initial readings recorded prior to deployment?

YES ___ NO ___ N/A ___

5.2 Were emergency workers aware of their maximum authorized mission exposure limit?

YES ___ NO ___ N/A ___

(a) If yes, what exposure limit did they indicate?

_____

5.3 Were emergency workers authorized to terminate their mission by their own decisions if a turn-back value was reached?

YES ___ NO ___ N/A ___

(a) What turn-back value(s) did they use?

_____

(b) Whom would they contact? Specify individual by title and organization.

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) OSC, TSC, MUDAC

OBJECTIVE 5: EMERGENCY WORKER EXPOSURE CONTROL

POINTS OF REVIEW

5.4 Did emergency workers monitor their own exposure?

YES ___ NO ___ N/A ___

(a) If yes, were dosimeters read at critical points as dictated by area conditions or the potential for exposure?

YES ___ NO ___ N/A ___

(b) Was personal dosimetry worn in the proper location?

YES ___ NO ___ N/A ___

5.5 Were emergency workers made aware of the potential need to take potassium iodide (KI) for thyroid blocking?

YES ___ NO ___ N/A ___

5.6 Were emergency workers, who were assigned special missions, briefed regarding higher dose limits authorized for these assignments?

YES ___ NO ___ N/A ___

(a) Was any special administrative approval required for these higher dose limits?

YES ___ NO ___ N/A ___

5.7 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____MUDAC_____

OBJECTIVE 6: PLUME DOSE RADIATION

Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering.

POINTS OF REVIEW

6.1 Were dose projections and PARs accurate and made in a timely manner?

YES ___ NO ___ N/A ___

(a) At what times were PARs made? _____

(b) Was the CNF form completed correctly for PAR information?

YES ___ NO ___ N/A ___

(c) Was PAR information transmitted in a timely manner between centers and to offsite agencies?

YES ___ NO ___ N/A ___

6.2 If a computer was used as the primary means for calculating projected dose, was a backup method demonstrated?

YES ___ NO ___ N/A ___

6.3 For what exposure pathway(s) were dose projections made? (Check projection(s) made.)

___ Whole body gamma
___ Iodine inhalation
___ Other (Specify)_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____MUDAC_____

OBJECTIVE 6: PLUME DOSE RADIATION

POINTS OF REVIEW

6.4 Were there any changes to PARs based on dose projections by the facility?

YES ___ NO ___ N/A ___

(a) At what time were these PARs made?_____

(b) Was the plot(s) of the area(s) for evacuation and sheltering changed on maps or displays to show these revised PARs?

YES ___ NO ___ N/A ___

6.5 Were monitoring data made available to the dose assessment group regarding the boundaries of the plume?

YES ___ NO ___ N/A ___

(a) If yes, when were the first data received by the dose assessment group?

_____

6.6 Was it possible for the dose assessment group to identify the plume location on the basis of field monitoring data?

YES ___ NO ___ N/A ___

(a) If yes, was the plume location plotted on a map on the basis of these monitoring data?

YES ___ NO ___ N/A ___

6.7 Were PARs revised on the basis of field radiation measurements?

YES ___ NO ___ N/A ___

(a) If yes, at what time were these revisions transmitted to decision makers?

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____MUDAC_____

OBJECTIVE 6: PLUME DOSE RADIATION

POINTS OF REVIEW

6.8 Was the dose assessment group provided with radiological data regarding maximum gamma exposure rates from plume crossings by field teams?

YES ___ NO ___ N/A ___

(a) Were these measurements used as a basis for additional dose projections?

YES ___ NO ___ N/A ___

(b) If yes, were earlier PARs changed on the basis of these dose projections?

YES ___ NO ___ N/A ___

(c) If yes, at what time were these revised PARs transmitted to the decision makers?

TIME	PROTECTIVE ACTION RECOMMENDATION (PAR)

6.9 Were appropriate plume maps and associated information included in the transmissions?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____MUDAC_____

OBJECTIVE 6: PLUME DOSE RADIATION

POINTS OF REVIEW

6.10 Was the dose assessment group provided with monitoring data regarding radioiodine and corresponding gamma exposure rate measurements in the plume?

YES ___ NO ___ N/A ___

(a) If yes, when were these data received by the dose assessment group?

_____

(b) From how many locations was this information received?

_____

(c) Was this information used as a basis for dose projections?

YES ___ NO ___ N/A ___

(d) If yes, were earlier PARs changed on the basis of these dose projections?

YES ___ NO ___ N/A ___

(e) If yes, at what time were these revised PARs transmitted to the decision makers?

_____

6.11 Did the dose projection group calculate a conversion factor to translate the gamma exposure rate measurements from the plume into corresponding radioiodine concentrations?

YES ___ NO ___ N/A ___

(a) Were additional conversion factors calculated whenever new data became available?

YES ___ NO ___ N/A ___

6.12 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____FIELD TEAMS_____

OBJECTIVE 7: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

Demonstrate the appropriate use of equipment and procedures for determining full radiation measurements.

POINTS OF REVIEW

7.1 Did the team check their equipment list prior to deployment to assure that none of it was missing?

YES ___ NO ___ N/A ___

(a) If equipment was missing, was replacement equipment obtained prior to deployment?

YES ___ NO ___ N/A ___

7.2 Did the team perform a battery check on all equipment that requires batteries for operation?

YES ___ NO ___ N/A ___

7.3 Were radio communication checks demonstrated?

YES ___ NO ___ N/A ___

7.4 Did the team check for proper operational response of each survey instrument with a radioactive check source, where appropriate, or perform an internal operational check of the survey instrument?

YES ___ NO ___ N/A ___

(a) If an instrument demonstrated improper operation, was backup equipment provided?

YES ___ NO ___ N/A ___

7.5 Was each survey instrument labeled with the date of most recent calibration or date that next calibration is due?

YES ___ NO ___ N/A ___

(a) Were the calibration dates, above, within 12 months of the exercise date?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) FIELD TEAMS

OBJECTIVE 7: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

POINTS OF REVIEW

7.6 Was the team briefed on the following before deployment?

(a) Plant and meteorological conditions

YES ___ NO ___ N/A ___

(b) Exposure control procedures, including use of potassium iodide (KI)

YES ___ NO ___ N/A ___

(c) Survey procedures to be followed

YES ___ NO ___ N/A ___

(d) Starting point for the radiation measurements

YES ___ NO ___ N/A ___

(e) Locations that were assigned to be monitored

YES ___ NO ___ N/A ___

7.7 Did the monitoring team arrive at the assigned monitoring location without excessive delay?

YES ___ NO ___ N/A ___

7.8 List the monitoring locations where radiation measurements were taken and the time when the measurements were taken. (If applicable, attach a list of additional monitoring locations and times.)

MONITORING LOCATION	TIME OF MEASUREMENT
_____	_____
_____	_____
_____	_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____FIELD TEAMS_____

OBJECTIVE 7: FIELD RADIOLOGICAL MONITORING - AMBIENT RADIATION MONITORING

POINTS OF REVIEW

7.9 If the plume was found, were the following readings taken at approximately waist level and near the ground (i.e., within two to three inches of the ground)? (Indicate YES, NO, N/A, or N/O in the space provided for each item).

____ Waist level -- closed window
____ Waist level -- open window
____ Near-ground level -- open window
____ Near-ground level -- closed window

(a) If open-window readings were taken, was the open window pointed down for the near-ground-level reading?

YES ____ NO ____ N/A ____

7.10 Were plume traverse measurements taken to determine peak exposure rates in the downwind direction?

YES ____ NO ____ N/A ____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____FIELD TEAMS_____

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

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

POINTS OF REVIEW

8.1 At what times and to what locations were field teams dispatched by the Field Team Coordinator to collect air and particulate samples? (If applicable, attach a list of additional sample locations and times.)

TIME	LOCATION
_____	_____
_____	_____
_____	_____
_____	_____

8.2 Did the field team search for a location with peak gamma exposure rate to take each air sample?

YES ___ NO ___ N/A ___

(a) Were open and closed window exposure rate measurements made to confirm presence of the plume at each sample location?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____FIELD TEAMS_____

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

POINTS OF REVIEW

8.3 What flow rates were used in taking the air samples?

_____

(a) How long was the sampling time?

_____ minutes

(b) What was the volume of the air sample(s) taken?

_____ cubic feet

(c) Were gamma exposure rate measurements made while taking each air sample?

YES ___ NO ___ N/A ___

8.4 Was the air sample media removed from the plume and taken to a low-background area for measurement?

YES ___ NO ___ N/A ___

(a) Was the air sample media purged of noble gases?

YES ___ NO ___ N/A ___

(b) Was a field measurement of the gross beta-gamma activity made on the particulate filter?

YES ___ NO ___ N/A ___

(c) Was a field measurement made of the radioactivity on the adsorbent filter cartridge?

YES ___ NO ___ N/A ___

(d) Did field team personnel deviate from established procedures?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____FIELD TEAMS_____

OBJECTIVE 8: FIELD RADIOLOGICAL MONITORING - AIRBORNE RADIOIODINE AND PARTICULATE ACTIVITY MONITORING

POINTS OF REVIEW

8.5 Were gamma radiation exposure rate readings at the sampling locations, iodine and particulate sample count rate data promptly and accurately transmitted?

YES ___ NO ___ N/A ___

(a) If the data were not promptly or adequately transmitted, explain.

_____

_____

8.6 Were iodine cartridges and particulate filters bagged and labeled with time, date, location taken, sample identification number and the field sample count rate data for particulates and radioiodines?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) TSC, MUDAC

OBJECTIVE 9: PLUME PROTECTIVE ACTION RECOMMENDATIONS (PARS)

Demonstrate the capability to make timely and appropriate action recommendations (PARs).

POINTS OF REVIEW

9.1 What PARs were made and when were they made? (Types of plume PARs to be addressed include: shelter, evacuation, and use of potassium iodide (KI).

PAR#	TYPE OF PROTECTIVE ACTION	TIME	ECL
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

9.2 Which of the following factors were considered in subsequent PARs? (Please indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Plant conditions and emergency classification level
___ Projected dose based on release estimates and meteorological conditions
___ Projected dose based on plant conditions and emergency action levels
___ Projected dose based on simulated field measurements and meteorological conditions
___ Shelter availability
___ Evacuation time estimates
___ Relative dose savings between evacuation and sheltering
___ Risk from evacuation
___ Weather conditions
___ Other (Specify)_____

9.3 Were appropriate decision makers involved in the PAR process--was the PAD making group effective?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)_____MUDAC_____

1. For Site Area and General Emergencies, demonstrate that the Emergency Operations Facility (EOF) can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency (82301-03.02.01b.3.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the EOF to deploy environmental sampling teams to appropriate locations, promptly and correctly project direction and maximum dose within the plume EPZ and the distance to which EPA PAGs are projected to be exceeded and perform dose assessment if a release is in progress (82301-03.02.01b.3.b)

   YES ___ NO ___ N/A ___

3. Upon activation, demonstrate the ability of the EOF to make offsite protective action recommendations (82301-03.02.01b.3.c)

   YES ___ NO ___ N/A ___

4. Demonstrate the ability of the EOF to set up and maintain a communications channel to offsite authorities, including NRC and keep them informed of emergency conditions (82301-03.02.01b.3.d)

   YES ___ NO ___ N/A ___

5. Demonstrate the ability to brief offsite representatives at the EOF and keep them informed of emergency conditions (82301-03.02.01b.3.f)

   YES ___ NO ___ N/A ___

6. Demonstrate the ability to periodically assess the habitability of the EOF.

   YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____MUDAC_____

OFFSITE MONITORING

7. Demonstrate the ability to dispatch offsite monitoring teams in a timely manner and the teams to implement their functions in a timely manner (82301-03.02.01b.6.a)

YES ___ NO ___ N/A ___

8. Demonstrate proficiency of offsite monitoring teams to use protective measures equipment, locate sampling and monitoring locations, collect, bag and label samples and other duties as required to effectively perform their function (82301-03.02.01b.6.b)

YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME	ORGANIZATION

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **HEALTH PHYSICS CENTER**

TIME	EVENT
_____	Health Physics Center activated
_____	Health Physics Center secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____HPC_____

OBJECTIVE 12: LABORATORY OPERATIONS

Demonstrate laboratory operations and procedures for measuring and analyzing samples.

POINTS OF REVIEW

12.1 Did the laboratory staff record the time of receipt and identity of all samples?

YES ___ NO ___ N/A ___

12.2 Indicate the time of receipt of the initial sample for analyses for each of the following sample types that were received.

___Iodine cartridge	___Air particulate filter
___Animal feeds	___Water
___Grain	___Forage
___Food crops	___Vegetable samples
___Milk	___Snow (melted)
___Meat samples	___Soil samples
___Poultry	___Other (Specify)_____

12.3 Did the laboratory staff follow appropriate procedures for avoiding cross-contamination of samples?

YES ___ NO ___ N/A ___

(a) Did the laboratory staff follow appropriate procedures for avoiding contamination of the laboratory?

YES ___ NO ___ N/A ___

12.4 Did the laboratory staff segregate and store samples that had measurable gamma exposure rates in a location that would avoid build-up of the background radiation level in the laboratory counting area?

YES ___ NO ___ N/A ___

12.5 Were steps taken to assure preservation of milk samples?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____HPC_____

OBJECTIVE 12: LABORATORY OPERATIONS

POINTS OF REVIEW

12.6 Did the laboratory have the following analytical capabilities? (Check those available.)

___ Gamma spectrum
___ Lithium drifted germanium [Ge(Li)]
___ Liquid scintillation
___ Strontium 90
___ Other (Specify)_____

12.7 Were fixed (reproducible) geometry(ies) used for counting of samples?

YES ___ NO ___ N/A ___

12.8 Were sample and background counting times adjusted to be commensurate with the required minimum detectable levels for emergency response decisions?

YES ___ NO ___ N/A ___

12.9 Indicate the time that the laboratory staff provided the results of its initial analyses to the dose assessment group for the following sample types analyzed:

___Iodine cartridge
___Animal feeds
___Grain
___Food crops
___Milk
___Meat samples
___Poultry
___Air particulate filter
___Water
___Forage
___Vegetable samples
___Snow (melted)
___Soil samples
___Other (Specify)_____

12.10 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)_____HPC_____

1. For Site Area and General Emergencies, demonstrate that the Emergency Operations Facility (EOF) can be activated and prepared to perform required functions within about 1 hour after declaration of the emergency (82301-03.02.01b.3.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability to periodically assess the habitability of the EOF.

   YES ___ NO ___ N/A ___

TIME LINE WORKSHEET
EXERCISE 93

EVALUATOR NAME:	ORGANIZATION:

TIME LINE WORKSHEET FOR:

(List the Center [&/or] Team [&/or] Personnel involved) **JOINT INFORMATION CENTER**

TIME	EVENT
_____	JIC Activation order given
_____	JIC declared activated
_____	JIC Media telephone team phone lines opened
_____	JIC Public Information team phone lines opened
_____	First news conference started

News Releases

List time distribution completed & <u>briefly</u> list major contents.
Attach copy of News Release to this worksheet

_____

_____

_____

_____

_____

_____

_____

_____ JIC Phone teams secured from Exercise

_____ JIC staff secured from Exercise

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 1: MOBILIZATION OF EMERGENCY PERSONNEL

Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations.

POINTS OF REVIEW

1.1 At what times did the center receive notification of emergency classification levels (ECLs)?

ECL	TIME NOTIFIED
Unusual Event	_____
Alert	_____
Site Area Emergency	_____
General Emergency	_____

1.2 Did all 60 minute responders arrive at the center in the time allotted?

YES ___ NO ___ N/A ___

1.3 Were all emergency center positions staffed? If not, list those that weren't.

YES ___ NO ___ N/A ___

_____

_____

1.4 At what times did the activation process for this facility begin and end?

Begin:_____ End:_____

1.5 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

_____

_____

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 2: FACILITIES-EQUIPMENT, DISPLAYS AND WORK ENVIRONMENT

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

POINTS OF REVIEW

2.1 Was update of the status board(s) done promptly (i.e., within about 10 minutes) following receipt of significant changes in event information at the nuclear power plant? If not, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

2.2 Was acceptable accountability maintained for the center (OSC,TSC,CR)?

YES ___ NO ___ N/A ___

2.3 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____ALL_____

OBJECTIVE 3: DIRECTION AND CONTROL

Demonstrate the capability to direct and control emergency operations.

POINTS OF REVIEW

3.1 Were the following actions performed by the Center Director or designee? (Indicate YES, NO, N/A, or N/O in the space provided for each item.)

___ Issued appropriate instructions to staff
___ Conducted staff meetings and briefings, as necessary
___ Resolved jurisdictional or decision-making authority conflicts
___ Provided leadership in decision making
___ Involved staff in decision making
___ Directed coordination with other jurisdictions
___ Authorized implementation of protective action recommendations

3.2 Did the Center Director or designee demonstrate the ability to direct the center in performing its essential functions?

YES ___ NO ___ N/A ___

3.3. In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) ALL

OBJECTIVE 4: COMMUNICATIONS

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

POINTS OF REVIEW

4.1 Did the staff in this facility demonstrate proficiency in the use of the available communications systems? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

4.2 Did this facility find alternate ways to communicate with other organizations without undue delay when malfunctions or breakdowns in equipment occurred?

YES ___ NO ___ N/A ___

4.4 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____JIC, CONTROL CELL_____

OBJECTIVE 10: EMERGENCY INFORMATION - MEDIA

Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media.

POINTS OF REVIEW

10.1 Did staff provide briefings to the media?

YES ___ NO ___ N/A ___

(a) If yes, specify the time briefings were initiated.

Briefing #1 _____ Briefing #2 _____
Briefing #3 _____ Briefing #4 _____
Briefing #5 _____ Briefing #6 _____

10.2 Which of the following were provided to the media? (Check those provided.)

___ Copies of news releases
___ Copies of Emergency Broadcast System (EBS) messages
___ Media kits
___ Other (Specify)

(a) If media Kits were provided, did staff provide one for each member of the media present at the media center?

YES ___ NO ___ N/A ___

10.3 Was a log maintained of information provided to the media?

YES ___ NO ___ N/A ___

10.4 Were copies of news releases retained and accessible to staff?

YES ___ NO ___ N/A ___

10.5 Were staff members available at the media center to handle inquiries from the media?

YES ___ NO ___ N/A ___

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) JIC, CONTROL CELL

OBJECTIVE 10: EMERGENCY INFORMATION - MEDIA

POINTS OF REVIEW

10.6 Were staff and equipment available at the media center to deal with telephone inquiries from the media? **(Control Cell)**

YES ___ NO ___ N/A ___

(a) Did telephone staff provide prompt, accurate, consistent, and responsive information to media representatives?

YES ___ NO ___ N/A ___

10.7 Did individuals preparing the briefings have access to copies of EBS messages?

YES ___ NO ___ N/A ___

10.8 Were the following subjects addressed in the briefings? (Indicate YES, NO, N/A or N/O in the space provided for each item.)

___ Description of current emergency conditions at the plant with reference to both the potential for or actual release of radioactivity and the current emergency classification level (ECL)
___ How to maximize protection when sheltering
___ Instructions for transients without shelter
___ What to leave behind and what to take along when evacuating
___ Evacuation routes
___ Location of reception centers
___ Location of congregate care centers
___ Use of potassium iodide (KI)
___ Information and instructions for parents of students concerning protective actions for students
___ Information for transportation-dependent individuals
___ Information for special populations
___ Information and instructions on protective actions for ingestion
___ Relocation, re-entry, or return
___ Rumor control telephone numbers
___ Information to address false or misleading rumors
___ Use of public information brochures
___ Other (Specify) _____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) JIC, CONTROL CELL

OBJECTIVE 10: EMERGENCY INFORMATION - MEDIA

POINTS OF REVIEW

10.9 Did the briefings or press releases have the following characteristics? (Check those characteristics observed.)

___ Accurate information
___ Clear, understandable language
___ Content consistent with public information brochures
___ Consistency of information and instructions regarding protective action decisions
___ Clear differentiation between previous and current information and instructions
___ Up-to-date information

10.10 In all briefings and releases, were protective action areas described in terms of familiar landmarks and boundaries?

YES ___ NO ___ N/A ___

10.11 In the implementation of the activities associated with this objective, did the facility follow plans and procedures? If no, provide comments below.

YES ___ NO ___ N/A ___

Comments: _____

_____

_____

SUPPLY SYSTEM NEWS RELEASES

Time Information Received	Time Approvals Began	Time Distribution Team Received	Time Distribution Completed
#1			
#2			
#3			
#4			
#5			
#6			
#7			

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) JIC, CONTROL CELL

OBJECTIVE 11: EMERGENCY INFORMATION - RUMOR CONTROL

Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner.

POINTS OF REVIEW

11.1. When was rumor control activated?

_____

11.2 How was the rumor control telephone number(s) publicized?

___ Press briefings
___ Emergency Broadcast System (EBS) messages
___ Public information brochures and postings
___ Other (Specify) _____

11.3 How many staff demonstrated this operation?

_____

11.4 Did the rumor control staff have access to current and accurate information?

YES ___ NO ___ N/A ___

11.5 Did the rumor control staff provide prompt, accurate, consistent, and responsive information to callers? **(Control Cell)**

YES ___ NO ___ N/A ___

11.6 How many calls were received by the rumor control staff during the exercise? **(Control Cell)**

_____

(a) Based on the number of calls received, record the average number of calls handled per hour during the period rumor control staff were activated.

_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S)____JIC, CONTROL CELL_____

OBJECTIVE 11: EMERGENCY INFORMATION - RUMOR CONTROL

POINTS OF REVIEW

11.7 Was information on individual calls documented and analyzed in order to identify recurrent or important trends in rumors?

YES ___ NO ___ N/A ___

11.8 Was information on rumors used in subsequent disseminations of information by public affairs staff?

YES ___ NO ___ N/A ___

(a) To whom was information on rumors provided? (Check below the recipients of this information.)

___ Individual caller(s)
___ Public Affairs Official(s) (PAO)
___ Other (Specify) _____

11.9 Did rumor control staff monitor radio and television broadcasts to determine what information was provided by the media to the public and to determine if any of this information was contributing to the spread of false or misleading rumors?

YES ___ NO ___ N/A ___

(a) Alternatively, did they seek this information from the PAOs?

YES ___ NO ___ N/A ___

(b) If yes, did the PAOs contacted provide the needed information?

YES ___ NO ___ N/A ___

11.10 In the implementation of the activities associated with this objective, did the facility follow its plans and procedures?

YES ___ NO ___ N/A ___

Comments:_____

SUPPLY SYSTEM DRILL & EXERCISE EVALUATION CRITERIA WORKSHEET
APPLICABLE CENTER(S) JIC

JOINT INFORMATION CENTER (JIC)

1. Demonstrate the ability of the Joint Information Center (JIC) to properly coordinate news releases with the NRC and other offsite agencies and disseminate information to the media/press in an accurate and timely manner (82301-03.02.01b.9.a)

   YES ___ NO ___ N/A ___

2. Demonstrate the ability of the JIC to maintain adequate communications for use by the news media (82301-03.02.01b.9.b)

   YES ___ NO ___ N/A ___

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EVALUATOR LOG
Exercise 93

TIME	EVENT *and/or* COMMENTS

EVALUATORS NOTE: Use as many rows on this sheet as necessary to describe or comment on the item you wish. Use as many sheets as necessary to log all pertinent items.