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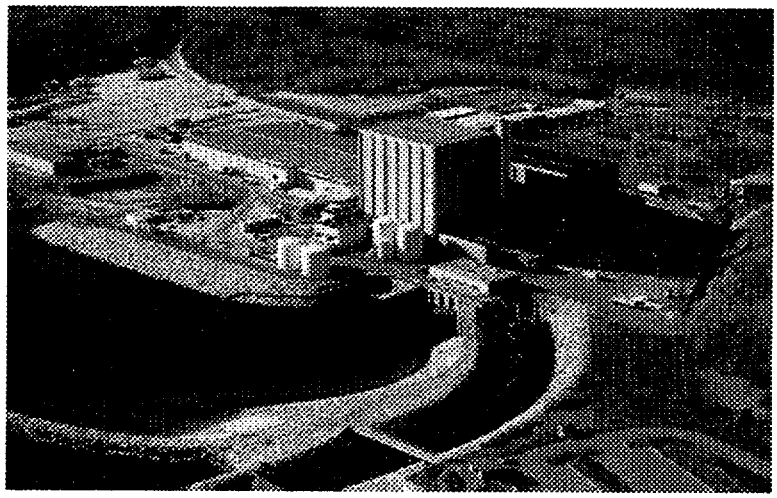
Pilgrim Nuclear Power Station



Controller Manual

Evaluated Exercise

December 7, 1999

PDR ADOCK

F01
011

PNPS 1999 EVALUATED EXERCISE
EVENT SCHEDULE

Event:	Exercise Controller Meeting
Date:	Monday, December 6, 1999
Time:	0800 - 1200
Location:	EOF
Attendees:	Controllers

Event:	Exercise Player Meeting
Date:	Monday, December 6, 1999
Time:	1300-1400
Location:	Engineering & Support Bldg., Conf. Rm. 2a/b
Attendees:	Players

Event:	NRC Entrance and Briefing
Date:	Monday, December 6, 1999
Time:	1500 - 1630
Location:	Engineering & Support Bldg., Conf. Rm. 3A
Attendees:	Invited personnel only

Event:	NRC Evaluated Exercise
Date:	Tuesday, December 7, 1999
Time:	0800
Location:	EOF, TSC, OSC, Simulator, MC
Attendees:	Players, Controllers, NRC Evaluators, Federal and Commonwealth Participants

Event:	Lead Controller Debrief
Date:	Tuesday, December 7, 1999
Time:	Immediately following the exercise
Location:	EOF
Attendees:	Lead Exercise Controller and Lead Facility Controllers

Event:	Exercise Critique and NRC Exit
Date:	Thursday, December 9, 1999
Time:	0900 - 1000
Location:	Engineering & Support Bldg., Conf. Rm. 3A
Attendees:	Invited personnel only

Event:	Exercise Critique
Date:	Thursday, December 9, 1999
Time:	1400 - 1500
Location:	Engineering & Support Bldg., Conf. Rm. 2a/b
Attendees:	Players and Controllers

CONFIDENTIAL - EXERCISE SCENARIO

SCOPE

The 1999 Pilgrim Nuclear Power Station (PNPS) Emergency Preparedness Evaluated Exercise to be conducted during the week beginning December 6, 1999, will test, and provide the opportunity to evaluate, the Pilgrim Emergency Plan and Emergency Plan Implementing Procedures (EPIPs). It will also test the Emergency Response Organization's (ERO) ability to assess, identify, classify, and respond to emergency conditions and take appropriate actions to protect the health and safety of the public. The Control Room (Simulator), Operations Support Center (OSC), Technical Support Center (TSC), Emergency Operations Facility (EOF), and Media Center (MC) will be activated and personnel assigned to those facilities will participate in the exercise. Local government agencies, the Massachusetts Emergency Management Agency (MEMA), and the Massachusetts Department of Public Health (MPDH) will participate.

The scenario will initially simulate a reactor transient with fuel failure and high drywell pressure causing an Alert. Elevated containment radiation levels then lead to a Site Area Emergency. A subsequent steam leak in the Reactor Building leads to an elevated radioactive release to the environment. When Main Stack radiation readings exceed threshold levels, a General Emergency will be declared. These classifications and escalations will test the effectiveness of the integrated capabilities of Pilgrim's ERO with the Commonwealth of Massachusetts and Local Governments with respect to protective action decisions and communications.

OBJECTIVES

Exercise Planning

A1) Conduct an exercise of the PNPS Emergency Plan.
A2) Provide for Commonwealth of Massachusetts participation.
A3) Prepare an exercise information package.
A4) Conduct a critique of the exercise.
A5) Prepare an exercise report.
A6) Identify open items.
A8) Conduct an exercise in various weather conditions (during different seasons) (Winter scenario).
A10) Conduct an Ingestion Pathway Exercise.

Emergency Organization, Support, and Resources

B1) Demonstrate the prompt activation, adequacy of staffing, and setup of facilities.
B2) Demonstrate the capability of the ERO to implement EPIPs.
B3) Demonstrate the ability of the Emergency Director to provide overall direction.
B4) Demonstrate the ability to effectively transfer command and control of emergency response functions from the CR to the EOF.
B6) Demonstrate the capability of the ERO to interface with Commonwealth and local governments.
B7) Demonstrate the ability to control access to emergency facilities.
B8) Demonstrate the ability to provide a liaison at each participating offsite governmental emergency operations center (EOC).
B9) Demonstrate adequacy of facilities and equipment to support emergency operations.
B10) Demonstrate the ability to request assistance from Federal agencies.
B13) Demonstrate the ability to notify on-call ERO personnel and document acceptable response times.

Incident Assessment and Classification

C1) Demonstrate the ability to make rapid assessment of radiological hazards, including the dispatch and coordination of Radiation Monitoring Teams (RMTs).
C2) Demonstrate the ability to recognize Emergency Action Levels (EALs) and properly classify emergencies in accordance with EPIPs.

Notification and Communications

D1) Demonstrate the ability to notify offsite emergency organizations within 15 minutes.
D2) Demonstrate the ability to notify the NRC of any emergency classification within one hour of the declaration.
D3) Demonstrate the ability to notify PNPS ERO personnel.
D4) Demonstrate the ability to develop and send timely follow-up information messages for offsite authorities.
D5) Demonstrate the communications capability between the CR (Simulator), TSC, OSC, Media Center, and EOF.
D6) Demonstrate the communications capability between PNPS and local government/Commonwealth.
D8) Demonstrate the adequacy of communications capabilities between PNPS and the RMTs.

Radiological Consequence Assessment

E1) Demonstrate methods and techniques for determining the source term of releases.
E2) Demonstrate the adequacy of methods and techniques for determining the magnitude of releases based on plant system parameters and effluent monitors.
E3) Demonstrate the ability to estimate integrated dose from projected and actual dose rates and compare to Environmental Protection Agency Protective Action Guidelines.
E4) Demonstrate the ability to monitor and control emergency worker exposure and implement exposure guidelines.
E12) Demonstrate the capability for onsite and offsite radiological monitoring.
E13) Demonstrate the ability to collect and analyze simulated elevated airborne or liquid samples.

Protective Action

F1) Demonstrate the ability to make Protective Action Recommendations to offsite authorities.
F2) Demonstrate the ability to advise individuals onsite or in owner controlled areas of emergency conditions.

Public Information

G1) Demonstrate the operations of the Media Center and the availability of space for the media.
G2) Demonstrate the ability to brief the media in a clear, accurate, and timely manner.
G3) Demonstrate coordination of information prior to its release.
G4) Demonstrate the ability to establish and operate rumor control in a coordinated fashion.

NARRATIVE SUMMARY

Initial Conditions

It is December 7, 1999, the Reactor has been at 100% power for the last 280 days. The "B" Control Rod Drive (CRD) pump is tagged out for repair.

The wind is from the ESE at 8-10 MPH. It is a cloudy fall morning. The temperature is 40 degrees.

Sequence of Events

The exercise is initiated when operators in the Control Room (Simulator) receive indications and recognize that the "B" Reactor Feedwater pump (RFP) has tripped. During the subsequent power reduction, indications are received of main turbine high vibration. While responding to the high vibration condition, turbine vibrations rise to the trip set point and the main turbine trips. The reactor subsequently fails to auto scram following the turbine trip vibration. Manual tripping of the Reactor Protection System (RPS) is also ineffective. A large fuel element failure results from the resultant high pressure and high power conditions.

Safety relief valves and one code safety valve lift in response to the high pressure condition. The code safety valve fails to fully reseat following reduction in reactor pressure. Control rod insertion is achieved via manual actuation of the Anticipated Transient Without Scram (ATWS) system.

During the transient, the 480 volt motor control center (MCC) B-17 trips when in-house electrical leads shift to the off-site power source. The leaking code safety valve pressurizes the drywell to above the Emergency Core Cooling System initiation setpoint and results in elevated radiation levels. The high pressure coolant injection system (HPCI) lines up to inject, but injection is terminated by the operators in accordance with Emergency Operating Procedures (EOPs).

The Watch Engineer should then declare an **ALERT** based on **Emergency Action Level (EAL) 3.4.1.2, Primary Containment pressure cannot be maintained below 2.2. PSIG or EAL 1.2.1.2 Air Ejector OffGas Monitors reading > 20,000 MR/hr.** When the Alert is declared, the emergency response organization (ERO) is notified by activation of the Computerized Automated Notification System (CANS). When sufficient numbers of the ERO members arrive at the Technical Support Center (TSC), the Operations Support Center (OSC), the Emergency Operations Facility (EOF), and the Media Center (MC), each facility will be activated.

Operators are expected to close the Main Steam Isolation Valves (MSIVs) when they determine the extent of fuel damage and commence plant cooldown utilizing periodic cycling of the safety relief valves in accordance with EOPs.

About an hour after the Alert is declared, indications are received that the Bus A1 fails due to a bus lockout. This causes the loss of the two remaining Reactor Feedwater pumps. Operators are expected to use Reactor Core Isolation Cooling (RCIC) for Reactor Water Level control. When they do, the RCIC cooling water valve fails to open. OSC Teams should be sent out to manually open the RCIC cooling water valve and investigate the status of Bus A1.

Drywell Containment High Radiation Monitoring System (CHRMS) readings will increase due to the weeping safety valve. After about 2 hours of elapsed time, the Drywell (CHRMS) readings exceed 200 R/hr. The Watch Engineer should declare a **SITE AREA EMERGENCY** based on **EAL 1.4.1.3, Drywell CHRMS reading greater than 200R/hr**.

Plant cooldown will continue until about 3 hours of elapsed time when a steam line break on HPCI results in a steam leak into secondary containment. HPCI fails to auto-isolate and attempts by the operators to manually isolate the system are unsuccessful. High temperatures and radiation levels will be observed in the HPCI areas in the Reactor Building. Radioactivity is released through the Standby Gas Treatment System (SBGT) and Main Stack to the environment. Operators enter into EOP-04 and EOP-05.

HPCI area temperatures continue to rise and radioactive release rates increase due to failed fuel and the steam leak.

Radiation levels will increase to be in excess of 240,000 CPS on the Main Stack Radiation Monitors.

A **GENERAL EMERGENCY** will be declared based on **EAL 5.1.1.4, Main Stack Radiation Monitors reading grater than 2.4 E5CPS.** The EOF should provide Protective Action Recommendations (PARs) to the Commonwealth.

The reactor will depressurize through the ruptured HPCI steam line until MCC B-17 is repaired and HPCI is isolated. When HPCI is isolated, the release into secondary containment is stopped and offsite releases trend downward.

The exercise will terminate when all objectives have been met.

TIMELINE

Elapsed Time	Actual Time	Event	Details/Expected Actions
-0030		Exercise Controllers in position.	
-0020		Initial conditions Established. (Message All-01)	Simulator crew is briefed. The plant is at 100% power. "B" CRD pump is tagged out.
-0005		Announcement of the Exercise. (Message CR-02)	Control room announcer (on-shift NWE or NOS) makes initiating announcement over Gaitronics system.
0000		Exercise commences. "B" RFP trip (Message SIM-03)	The crew in the Control Room (Simulator) recognizes Reactor Feedwater Pump "B" trip and high turbine vibration. The following alarms/indications are received: RFP B TRIP C1L-A2 RFP B OVERLOAD C1L-B2 TURBINE VIBRATION HI C2L-A3
0010		Main Turbine Trip (Message SIM-04)	The main turbine trips on high vibration. The Reactor fails to auto scram. The following alarms/indications are received: TURBINE VIBRATION Hi Hi C2L-B1. No green full-in lights are lit on the Full Core Display.
0010		Reactor Scram. (Message SIM-05)	Operators should manually scram the Reactor. Initial manual scram fails. Operators enter EOP-2, "RPV Control." The following alarms/indications are received by the CR: No green full-in lights are lit on the Full Core Display.
0010		Rod Insertion Failure (Message SIM-06).	Operators recognize that control rods have failed to insert causing a high power ATWS. Operators must use the ATWS push-buttons to scram. The following alarms/indications are received: All green full-in lights are lit on the Full Core Display.

Elapsed Time	Actual Time	Event	Details/Expected Actions
0010		Fuel element failure. (Message Sim-07)	The power transient has resulted in a large fuel element failure. The following alarms/indications are received: THIRTEEN MINUTE TIMER INITIATED CP600R-B3 PRETREATMENT RAD HI HI CP600R-A4. PRETREATMENT RAD HI CP600R-B4.
0010		MCC B-17 Trip (Message SIM-08).	Operators recognize that Motor Control Center (MCC) B-17 has tripped. The following alarms/indications are received: B-17 TRIP C3LC-D4
0012		Safety Valve Failure High Drywell Pressure (Message SIM-09)	The operators recognize High Drywell Pressure and elevated radiation levels due to failure of a code safety valve to properly reseat. Operators enter EOP-3. The following alarms/indications are received: DRYWELL PRESSURE HI C903C-A6
0014		HPCI line-up (Message SIM-10)	Operators recognize that HPCI has lined up to inject based on the High Drywell Pressure signal. The operators inhibit HPCI injection. The following alarms/indications are received: White HPCI Injection Light is lit on the C903 Apron.
0015		**Alert**	The Nuclear Watch Engineer declares an **ALERT** based on **EAL 3.4.1.2, Primary Containment pressure > 2.2 PSIG. or 1.2.1.2 Air Ejector Offgas monitors 1705-3A and B readings > 20,000 MR/hr.**
0017		High Main Stack radiation. MSIVs closed. (Message SIM-11)	Operators receive and recognize high main stack effluent radiation readings. Operators close the MSIVs when they determine that fuel damage has occurred. The following alarms/indicators are received. MAIN STACK RAD HI CP600R-B8.

Elapsed Time	Actual Time	Event	Details/Expected Actions
0020		Alert announcement. (Message CR-12)	CR announcer announces Alert over Gaitronics.
0025		Contingency Alert message. (Message SIM-13X)	Controllers will issue this message only if the Alert has not been declared by this time.
0030		Coolant sample request.	The NWE may request a Reactor Coolant sample be taken.
0040		ERO Mobilization.	The ERO should be mobilizing and activating Emergency Facilities.
0050		OSC Team Request	NWE requests OSC team to troubleshoot MCC B-17.
0100		OSC B-17 Team Reports (Message OSC-14)	The OSC B-17 team reports B-17 breaker at B1 damaged, repair time is 3-4 hours.
0100		Plant cooldown.	Plant data shows that a cooldown, using RCIC, is in progress. Drywell CHRMS continues to increase due to safety valve leak.
0115		Facility Activation.	TSC, OSC and EOF should be activated. The ED should have taken over command and control of the emergency from the NWE/NOS.
0115		Bus A1 Trip. (Message SIM-15)	Operators recognize Bus A-1 has tripped. The following alarms/indications are received: A-1 LOCKOUT C3LC-C1 RFP A TRIP C1L-A1 RFP C TRIP C1L-A3 CONDENSER PUMP TRIP C1L-A6
0130		OSC Bus A-1 Team dispatched.	A team from the OSC should be sent out to trouble shoot the bus A-1 trip.
0130		Governor's declaration of emergency.	The Governor of Massachusetts should have declared a State of Emergency.
0130		RCIC Cooling Water Valve Failure (Message SIM-16)	Operators recognize failure of RCIC cooling water supply valve MO-1301-62 to open. The following alarms/indications are received: GOV END BRG TEMP HI C904L-F1 CPLNG END BRG TEMP HI C904L-G1

Elapsed Time	Actual Time	Event	Details/Expected Actions
0130		OSC RCIC Team Dispatched	An OSC Team to manually open MO-1301-62 is dispatched.
0145		OSC MO-1301-62 Team Reports (Message OSC-17)	OSC MO-1301-62 Team Reports that the valve has been opened locally.
0155		OSC Bus A1 Team reports damage. (Message OSC-18)	The OSC Bus A1 team reports that the A1 Bus is faulted and must be replaced.
0155		Parks/recreational areas closed.	The towns should report that parks/recreational areas have been closed.
0155		Drywell CHRMS increases to >200 R/hr. (Message SIM-19)	Control Room Operators recognize an increase in Drywell CHRMS radiation levels >200 R/hr.
0200		**Site Area Emergency (SAE)**	The ED declares the **SAE** based on **EAL 1.4.1.3., Drywell CHRMS reading >200 R/hr.** Offsite notifications are made.
0205		SAE Announcement. (Message CR-20)	CR announcer announces SAE over Gaitronics.
0215		Contingency SAE message. (Message EOF-21X)	Controllers will issue this message only if a SAE has not been declared by this time.
0230		Accountability is achieved.	
0230		Plant cooldown continues.	Plant cooldown will continue at a rate < 100°/hr. RPV pressure remains at levels consistent with the cooldown rate.
0235		Siren Activation, Offsite Precautionary Actions.	The Commonwealth should have activated EPZ Sirens/EAS. Transfer of school children, transportation pre-staging, and precautionary ingestion pathway activities should have been started.

Elapsed Time	Actual Time	Event	Details/Expected Actions
0310		HPCI Steam Line Break (Message SIM-22)	Operators recognize a steam leak into secondary containment caused by a steam line break on HPCI. The following alarms/indications are received: STEAM LEAKAGE AREA TEMP HI C904L-A6 HPCI ISOLATED C903C-A1 HPCI TURBINE TRIP C903C-A2 HPCI VALVES OVERLOAD C903C-D5 MO-2301-05 indicator lights on C903 are red-green. HPCI fails to auto isolate. Operators enter EOP-04, request manual isolation of HPCI. Release occurs through SBGT and Main Stack.
0315		RPV pressure decreases	RPV pressure decreases via HPCI steamline rupture.
0320		HPCI Team Reports. (Message OSC-23)	OSC HPCI Team reports to the CR/Simulator that manual isolation of HPCI is unsuccessful.
0320		High Main Stack Radiation Levels. (Message SIM-24)	Operators recognize High Main Stack Radiation. Operators enter EOP-05. The following alarms/indications are received: MAIN STACK RAD HI HI CP600R-A8 MAIN STACK RAD HI -CP600R-B8
0325		RPV Blowdown	Operators blowdown the reactor vessel by SRVs in accordance with EOP-4, or EOP-5.
0325		Main Stack radiation levels increase to > 2.4 E5cps (Message SIM-25)	HPCI area temperatures continue to rise. Main Stack radiation monitor readings increase to > 2.4 E5CPS due to failed fuel and the steam leak.
0330		**General Emergency (GE)**	The ED declares the **GE** based on EAL 5.1.1.4, **Main Stack Radiation Monitor readings > 2.4 E5CPS**
0335		CR GE announcement. (Message CR-26)	CR announcer announces General Emergency over Gaitronics.
0340		Contingency GE message. (Message EOF-27X).	Controllers issue this message if a GE has not been declared by this time.

Elapsed Time	Actual Time	Event	Details/Expected Actions
0345		Federal Assistance (Message EOF-28)	The EOF Dose Assessment/Rad. monitoring staff should recognize the need for additional monitoring/assessment resources and request assistance from the EOF NRC Representative.
0400		Siren activation, protective actions.	The Commonwealth should have activated sirens/EAS and directed Protective Actions to the public.
0425		OSC B-17 Team Reports (Message OSC-29)	The OSC MCC B-17 repair team reports that the B-17 breaker at B-1 has been repaired. B-17 is operating and HPCI can be isolated.
0430		Release rate lowers.	With B-17 repaired and HPCI isolated, the release into secondary containment is stopped and offsite releases trend downward.
0500		Exercise termination. (Message AII-30)	The Exercise is terminated when all objectives have been demonstrated.

PILGRIM NUCLEAR . OWER STATION
1999 EVALUATED EXERCISE #99-06

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
-0020	AII-01	MESSAGE FOR: Watch Engineer and Lead Facility Players INFORMATION: **INITIAL CONDITIONS** It is December 7, 1999. The plant has been at 100% power for the previous 280 days. The "B" Control Rod Drive (CRD) pump is tagged out for repair. **INITIAL METEROLOGICAL CONDITIONS** The wind is from the ESE at 8-10 MPH. It is a cloudy fall morning. The temperature is 40 degrees.
-0020	AII-01	ADDITIONAL CONTROLLER INFORMATION: This message is to be presented when the control room (simulator) staff is in place and when the lead player at each facility arrives. ANTICIPATED PLAYER RESPONSE: Players should become familiar with the format and content of the message, plant parameter data and radiation data sheets. The NWE and lead players at each facility should brief all of their staff with this information.
-0005	CR-02	MESSAGE FOR: On Shift NWE/NOS INFORMATION: Have the control room make the following announcement over the page system: "Attention! Attention! This is the Control Room. Pilgrim Nuclear Power Station is commencing the 1999 Emergency Response Evaluated Exercise. All announcements preceded by "THIS IS A DRILL" are for designated exercise participants. All personnel are to limit use of Gaitronics until the exercise has been terminated."
-0005	CR-02	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the On Shift NWE/NOS to initiate the 1999 Evaluated Exercise. ANTICIPATED PLAYER RESPONSE: The NWE/NOS will make the announcement on the Gaitronics system.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0000	SIM-03	MESSAGE FOR: Watch Engineer/NOS INFORMATION: The following alarms/indications are received: RFP B TRIP C1L-A2 RFP B OVERLOAD C1L-B2 TURBINE VIBRATION HI C2L-A3
0000	SIM-03	ADDITIONAL CONTROLLER INFORMATION: Initiate the exercise by providing this message to the control room staff. This is the initial message for the 1999 Evaluated Exercise. "B" Reactor Feedwater pump has tripped and there is high turbine vibration. ANTICIPATED PLAYER RESPONSE: Operators will recognize RFP "B" trip and turbine vibration.
0010	SIM-04	MESSAGE FOR: Watch Engineer/NOS INFORMATION: The following alarms/indications are received: TURBINE VIBRATION HI HI C2L-B1 No-green full-in lights are lit on the Full Core Display
0010	SIM-04	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the NWE. The main turbine has tripped. The Reactor fails to auto scram. ANTICIPATED PLAYER RESPONSE: Operators will recognize turbine trip and failure to scram. Actions are taken to manually scram.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0010	SIM-05	MESSAGE FOR: Watch Engineer/NOS INFORMATION: The following alarms/indications are received: No green full-in lights are lit on the Full Core Display.
0010	SIM-05	ADDITIONAL CONTROLLER INFORMATION: Provide the message to the NWE when they attempt to manually scram the reactor. The operators should have attempted to manually scram the reactor but manual scram fails. These indications show failure of reactor to scram. ANTICIPATED PLAYER RESPONSE: Operations should use the ATWS push buttons to scram. The operators should enter EOP-2, RPV Control, and procedures should be followed.
0010	SIM-06	MESSAGE FOR: Watch Engineer INFORMATION. The following alarms/indications are received. All green full-in lights are lit on the Full Core Display.
0010	SIM-06	ADDITIONAL CONTROLLER INFORMATION: Present this message after the operator scrams the reactor using the ATWS push-buttons. These indications show that this scram is successful. However, because control rods initially failed to insert, a high power ATWS has occurred. ANTICIPATED PLAYER RESPONSE: Operators should recognize successful scram. The reactor pressure and water level should be maintained in accordance with EOP-2, "RPV Control, failure to scram" or EOP-1, "RPV control" after reactor shutdown status is determined.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0010	SIM-07	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received: 13 MIN TIMER INITIATED CP600R-B3 PRE-TREATMENT RAD HI HI CP600R-A4 PRE-TREATMENT RAD HI CP600R-B4
0010	SIM-07	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the NWE. The power transient has resulted in large fuel element failure. ANTICIPATED PLAYER RESPONSE: The operators should recognize fuel element failure.
0010	SIM-08	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received: B-17 TRIP C3LC-D4
0010	SIM-08	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the NWE. ANTICIPATED PLAYER RESPONSE: Operators should recognize that Motor Control Center (MCC) B-17 has tripped. NWE will eventually request an OSC team to troubleshoot MCC B17.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0012	SIM-09	MESSAGE FOR: Watch Engineer INFORMATION: The following annunciators are received in the control room. DRYWELL PRESSURE HI C903C-A6.
0012	SIM-09	ADDITIONAL CONTROLLER INFORMATION: Present this message to the Watch Engineer. A code safety valve has opened and failed to reseat properly upon closure. Steam leakage into the Drywell has caused high drywell pressure and elevated radiation levels. ANTICIPATED PLAYER RESPONSE: The operators should recognize high Drywell Pressure and elevated radiation levels. An ALERT should be declared in accordance with EP-IP-100 on EAL 3.4.1.2 primary containment pressure > 2.2 psig or 1.2.1.2 air ejector off gas rad monitors > 20,000 MR/hr. A Gaitronics announcement should be made, CANS should be activated, the emergency facilities should be activated, and all offsite notifications should be made.
0014	SIM-10	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received: The white HPCI injection light on the C903 apron is lit.
0014	SIM-10	ADDITIONAL CONTROLLER INFORMATION: Present this message to the Watch Engineer HPCI has lined up to inject based on a high drywell pressure signal. ANTICIPATED PLAYER RESPONSE: Operators should recognize that HPCI has lined up to inject. They should inhibit HPCI injection.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0017	SIM-11	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received: MAIN STACK RAD HI CP600R-B8
0017	SIM-11	ADDITIONAL CONTROLLER INFORMATION: Present this message to the Watch Engineer Main stack effluent radiation low range monitors have alarmed. ANTICIPATED PLAYER RESPONSE: Operators recognize high main stack readings. They should close MSIVs when they determine that fuel damage has occurred.
0020	CR-12	MESSAGE FOR: Control Room Nuclear Operations Supervisor INFORMATION: Have the control room sound the station alarm and make the following announcement over the Gaitronics. Please make the following Gaitronics announcement: THIS IS A DRILL THIS IS A DRILL "Attention all personnel; attention all personnel: An Alert has been declared due to primary containment pressure greater than 2.2 psig (or Air or Offgas radiation monitors >20,000 MR/hr). All on-call members of the Emergency Response Organization report to your designated emergency response facility. If this were an actual event, all Pilgrim personnel would assemble in their normal office or shop area, report to their supervisor, and await instructions. All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel would leave the site at this time. For the purposes of this exercise, all non-exercise participants are to continue with your normal duties. THIS IS A DRILL THIS IS A DRILL REPEAT MESSAGE

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0020	CR-12	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the On-shift NWE/NOS to announce the Alert. ANTICIPATED PLAYER RESPONSE: Sound station alarm and make announcement over Gaitronics.
0025	SIM-13X	MESSAGE FOR: Watch Engineer/NOS CONTINGENCY ACTION MESSAGE: Declare an Alert based on EAL 3.4.1.2.
0025	SIM-13X	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the ED (NWE) only if an Alert has not been declared by this time. ANTICIPATED PLAYER RESPONSE: Implement EP-IP-100, Attachment 2, "Alert." Activate CANS. Make Offsite notifications.
0100	OSC-14	MESSAGE FOR: Repair Team Leader at MCC B-17 Breaker INFORMATION: MCC B-17 breaker at B-1 is hot and colored black, There is the smell of burnt electrical equipment . There is no smoke and no fire. Repair time is at least 3-4 hours.
0100	OSC-14	ADDITIONAL CONTROLLER INFORMATION: This message should be provided to the OSC team when they arrive at B-17 Breaker B-1. Have team explain procedures, (including ALARA) tools/equipment needed, etc. to make repairs. The Breaker will eventually be repaired (see Message OSC-29). Do not allow repair before 0425. ANTICIPATED PLAYER RESPONSE: Report findings to the OSC.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0115	SIM-15	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received: A-1 LOCKOUT C3LC-C1 RFP A TRIP C1L-A1 RFP C TRIP C1L-A3 CONDENSER PUMP TRIP C1L-A6
0115	SIM-15	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the Watch Engineer ANTICIPATED PLAYER RESPONSE. Operators should recognize that Bus A1 has tripped. The TSC will be notified by the Control Room. A repair team should be assigned to trouble shoot the Bus-A1 trip.
0130	SIM-16	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received. GOV END BRG TEMP HI C904L-F1 CPLNG END BRG TEMP HI C904L-G1
0130	SIM-16	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the Watch Engineer. When operators initiate RCIC, the RCIC cooling water supply valve MO-1301-62 fails to open. ANTICIPATED PLAYER RESPONSE: The operators should request an OSC team to manually open the valve.
0145	OSC-17	MESSAGE FOR: Repair Team Leader at RCIC cooling water supply valve INFORMATION: RCIC cooling water supply valve has been opened locally.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0145	OSC-17	ADDITIONAL CONTROLLER INFORMATION: This message will be presented to the repair team leader at the RCIC cooling water supply valve/control center after they demonstrate knowledge and procedures to open the valve. Ensure that simulator controllers are notified immediately when the valve is opened. ANTICIPATED PLAYER RESPONSE: The repair team should demonstrate the physical and administrative actions and procedures necessary, including ALARA, to open the valve. They should report valve opening to OSC/CR.
0155	OSC-18	MESSAGE FOR: OSC Teams at Bus A1 INFORMATION: Bus A1 is faulted. It is hot and colored black. There is the smell of burnt electrical equipment . There is no smoke and no fire.. Bus A1 must be replaced. Replacement time is greater than 24 hours.
0155	OSC-18	ADDITIONAL CONTROLLER INFORMATION: Present this message to OSC Bus A1 team when they arrive. Have teams explain procedures (including ALARA), tools/equipment needed, etc. to make replacement. ANTICIPATED PLAYER RESPONSE: Report damage and replacement time to OSC.
0155	SIM-19	MESSAGE FOR: Watch Engineer INFORMATION: Drywell CHRMS readings on RIT-1001-606A and B and RIT-1001-607A and B have increased to levels > 200 R/Hr.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0155	SIM-19	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the NWE. Drywell CHRMS readings have been increasing due to fission products (as a result of the fuel failure) entering the Drywell through the leaking safety valve.. The level is now above the EAL for a SITE AREA EMERGENCY. While primary containment radiation levels are high, the third and final barrier has not been breached. ANTICIPATED PLAYER RESPONSE: When the TSC & EOF become aware of the Drywell CHRMS radiation levels, the Emergency Director should declare a SITE AREA EMERGENCY in accordance with EP-IP-100 based on "Containment High Range Radiation Monitor readings > 200 R/Hr." (EAL 1.4.1.3). EP-IP-100, Attachment 3, "Site Area Emergency" should be implemented. A Gaitronics announcement should be made. The Emergency Plant Manager should be notified. Offsite agencies should be notified by the EOF.
0205	CR-20	MESSAGE FOR: Control Room Nuclear Operations Supervisor INFORMATION: Have the Control Room sound the station alarm and make the following announcement over Gaitronics THIS IS A DRILL THIS IS A DRILL Attention all personnel! Attention all personnel!! A SITE AREA EMERGENCY has been declared due to high containment radiation. Had this been an actual emergency, all personnel who are NOT part of the Emergency Response Organization would be directed to evacuate to the designated assembly area and would receive further instructions at your exit gate. For the purpose of the exercise, non-exercise participants are to continue with your normal duties. THIS IS A DRILL THIS IS A DRILL (REPEAT MESSAGE)
0205	CR-20	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the On Watch NOS. ANTICIPATED PLAYER RESPONSE Announce the SAE over Gaitronics.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0215	EOF-21X	MESSAGE FOR: Emergency Director INFORMATION: Declare a SITE AREA EMERGENCY due to "Containment High Range Area Radiation Monitoring reading > 200 R/Hr." (EAL 1.4.1.3).
0215	EOF-21X	ADDITIONAL CONTROLLER INFORMATION: Deliver this message only if a SITE AREA EMERGENCY has not been declared. ANTICIPATED PLAYER RESPONSE: A SITE AREA EMERGENCY should be declared. The control room should be prompted to make an announcement of the SITE AREA EMERGENCY. The EOF should implement EP-IP-100, Attachment 3, and make offsite notifications.
0310	SIM-22	MESSAGE FOR: Watch Engineer INFORMATION: The following alarms/indications are received: STEAM LEAKAGE AREA TEMP HI C904L-A6 HPCI ISOLATED C903C-A1 HPCI TURBINE TRIP C903C-A2 HPCI VALVES OVERLOAD C903C-D5 MO-2301-05 indicator lights on C903C are Red-Green
0310	SIM-22	ADDITIONAL CONTROLLER INFORMATION: Present this message to the Watch Engineer. A steam line break on HPCI has caused a steam leak into secondary containment. HPCI failed to auto-isolate. A radiation release to the environment occurs through SBGT. ANTICIPATED PLAYER RESPONSE. Operators recognize steam leak into secondary containment and failure of HPCI to auto-isolate. They enter EOP-4 and request manual isolation of HPCI.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0320	OSC-23	MESSAGE FOR: Repair team at HPCI INFORMATION: Manual isolation of HPCI is not possible due to mechanical failure of HPCI Isolation Valve 2301-05.
0320	OSC-23	ADDITIONAL CONTROLLER INFORMATION: Present this message to the OSC team leader at the "B" RHR valve room after they describe the procedure to isolate HPCI. All preliminary considerations must be addressed -- ALARA, physical protection from hot steam, and administrative approvals. Proper clothing and equipment must be available and demonstrated. NOTE: In-plant radiation readings assume that the HPCI Room air-tight door is ajar and steam is leaking out into the building. The atmosphere gets damper and the floors/walls/equipment get wetter as the stairs down to the RHR quad and HPCI room is approached. The stairwell is filled with steam. ANTICIPATED PLAYER RESPONSE: The repair team should demonstrate their ability to isolate HPCI. They must display or confirm that all administrative requirements have been met. When informed that HPCI cannot be isolated, they should report this to the OSC.
0320	SIM-24	MESSAGE FOR: Watch Engineer INFORMATION: The following annunciators are received in the Control Room. MAIN STACK RAD HI HI CP600R-A8 MAIN STACK RAD HI CP600R-B8
0320	SIM-24	ADDITIONAL CONTROLLER INFORMATION: Present this information to the Watch Engineer. Main stack effluent radiation levels have been increasing due to fission products (as a result of the fuel failure) entering the Reactor Bldg through the HPCI leak. The readings have increased above the alarm threshold which will sound in the Control Room. Readings will then quickly rise above the EAL for a GENERAL EMERGENCY. ANTICIPATED PLAYER RESPONSE: The operators should recognize increasing Main Stack Radiation levels.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0325	SIM-25	MESSAGE FOR: Watch Engineer INFORMATION: Main stack radiation monitors 1705-18A and B are reading > 2.4 E5CPS
0325	SIM-25	ADDITIONAL CONTROLLER INFORMATION: Present this information to the Watch Engineer. ANTICIPATED PLAYER RESPONSE: When the TSC & EOF become aware of the Main Stack radiation levels, the Emergency Director should declare a GENERAL EMERGENCY in accordance with EP-IP-100 based on "Main stack radiation levels > 2.4 E5CPS (EAL 5.1.1.4). EP-IP-100, Attachment 4, "General Emergency should be implemented. A Gaitronics announcement should be made. The Emergency Plant Manager should be notified. Offsite agencies should be notified by the EOF. Protective Action Recommendations should be made to offsite authorities.
0335	CR-26	MESSAGE FOR: Control Room Nuclear Operations Supervisor INFORMATION: Have the control room sound the station alarm and make the following announcement over Gaitronics. THIS IS A DRILL THIS IS A DRILL "Attention all personnel! Attention all personnel! A GENERAL EMERGENCY has been declared due to a High Main Stack Radiation Levels. For the purpose of the exercise, all non-exercise participants are to continue with your normal duties. There will be no eating, drinking or smoking until further notice. THIS IS A DRILL THIS IS A DRILL (REPEAT MESSAGE)
0335	CR-26	ADDITIONAL CONTROLLER INFORMATION: Present this message to the On Watch NOS. ANTICIPATED PLAYER RESPONSE: Make the Gaitronics announcement.
0340	EOF-27X	MESSAGE FOR: Emergency Director INFORMATION: Declare a GENERAL EMERGENCY based on EAL 5.1.1.4

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0340	EOF-27X	ADDITIONAL CONTROLLER INFORMATION: Deliver this message only if a GENERAL EMERGENCY has not been declared. ANTICIPATED PLAYER RESPONSE: The Emergency Director should declare a GENERAL EMERGENCY in accordance with EAL 5.1.1.4. EP-IP-100, Attachment 4, "General Emergency" should be implemented. An announcement should be made on Gaitronics. Offsite notifications should be made from the EOF. PARs should be provided to the Commonwealth by the Emergency Director.
0345	EOF-28	MESSAGE FOR: ED/EOM/Offsite Rad. Supervisor INFORMATION: We have spoken with Steve Centore, the Region I DOE RAP Team Leader, He will have an advance team with 4 Rad. Monitors here within 4 hours. He can also have the Region I Mobile Laboratory (with extensive monitoring/analysis capabilities) and 6 additional personnel here within 8 hours.
0345	EOF-28	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the EOF staff about 10 minutes after they request assistance. ANTICIPATED PLAYER RESPONSE: Dose Assessment/EOF management should recognize the need for additional monitoring assistance and request it from the NRC EOF Rep. They should plan monitoring and assessment around the additional resources.
0425	OSC-29	MESSAGE FOR: OSC team at MCC B-17 Breaker B-1 INFORMATION: Breaker B-1 has been repaired. MCC B-17 is available/operational.
0425	OSC-29	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the B-17 team. Do not allow repair before 0425. Ensure that you notify the Simulator controllers immediately after giving this message to the players. ANTICIPATED PLAYER RESPONSE: OSC team should notify the OSC/CR simulator of the repair of B-1 and B-17 availability.

PLANT MESSAGES SUMMARY

ELAPSED TIME	MESSAGE NO.	MESSAGE
0500	AII-30	MESSAGE FOR: Watch Engineer Emergency Director Emergency Plant Manager Company Spokesperson in the Media Center INFORMATION: The 1999 Evaluated Exercise is terminated. Have the Control Room make following Gaitronics announcement. Attention! Attention! This is the Control Room. The Pilgrim Nuclear Power Station 1999 Evaluated Exercise has been completed. No further exercise announcements will be made.
0500	AII-30	ADDITIONAL CONTROLLER INFORMATION: Provide this message to the person in charge of each facility only when the Lead Exercise Controller has determined that all objectives have been tested. ANTICIPATED PLAYER RESPONSE: All players should assemble all of the written material that was generated during the exercise for assembly by the Lead Facility Controller. All logbooks, procedure manuals, and engineering materials should be returned to the proper files.

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. All-01

ELAPSED TIME -0020 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer and Lead Facility Players

INFORMATION:

INITIAL CONDITIONS

It is December 7, 1999. The plant has been at 100% power for the previous 280 days. The "B" Control Rod Drive (CRD) pump is tagged out for repair.

INITIAL METEROLOGICAL CONDITIONS

The wind is from the ESE at 8-10 MPH. It is a cloudy fall morning. The temperature is 40 degrees.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. AII-01

ELAPSED TIME -0020 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

This message is to be presented when the control room (simulator) staff is in place and when the lead player at each facility arrives.

ANTICIPATED PLAYER RESPONSE:

Players should become familiar with the format and content of the message, plant parameter data and radiation data sheets. The NWE and lead players at each facility should brief all of their staff with this information.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-02

ELAPSED TIME -0005 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: On Shift NWE/NOS

INFORMATION:

Have the control room make the following announcement over the page system:

"Attention! Attention! This is the Control Room. Pilgrim Nuclear Power Station is commencing the 1999 Emergency Response Evaluated Exercise. All announcements preceded by "THIS IS A DRILL" are for designated exercise participants. All personnel are to limit use of Gaitronics until the exercise has been terminated."

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-02

ELAPSED TIME -0005 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the On Shift NWE/NOS to initiate the 1999 Evaluated Exercise.

ANTICIPATED PLAYER RESPONSE:

The NWE/NOS will make the announcement on the Gaitronics system.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-03

ELAPSED TIME 0000 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer/NOS

INFORMATION:

The following alarms/indications are received:

RFP B TRIP C1L-A2
RFP B OVERLOAD C1L-B2
TURBINE VIBRATION HI C2L-A3

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-03

ELAPSED TIME 0000 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Initiate the exercise by providing this message to the control room staff. This is the initial message for the 1999 Evaluated Exercise.

"B" Reactor Feedwater pump has tripped and there is high turbine vibration.

ANTICIPATED PLAYER RESPONSE:

Operators will recognize RFP "B" trip and turbine vibration.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-04

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer/NOS

INFORMATION:

The following alarms/indications are received:

TURBINE VIBRATION HI HI C2L-B1
No-green full-in lights are lit on the Full Core Display

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-04

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the NWE.

The main turbine has tripped. The Reactor fails to auto scram.

ANTICIPATED PLAYER RESPONSE:

Operators will recognize turbine trip and failure to scram. Actions are taken to manually scram.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-05

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer/NOS

INFORMATION:

The following alarms/indications are received:

No green full-in lights are lit on the Full Core Display.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-05

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide the message to the NWE when they attempt to manually scram the reactor.

The operators should have attempted to manually scram the reactor but manual scram fails. These indications show failure of reactor to scram.

ANTICIPATED PLAYER RESPONSE:

Operations should use the ATWS push buttons to scram. The operators should enter EOP-2, RPV Control, and procedures should be followed.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-06

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received.

All green full-in lights are lit on the Full Core Display.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-06

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message after the operator scrams the reactor using the ATWS push-buttons. These indications show that this scram is successful. However, because control rods initially failed to insert, a high power ATWS has occurred.

ANTICIPATED PLAYER RESPONSE:

Operators should recognize successful scram.
The reactor pressure and water level should be maintained in accordance with EOP-2, "RPV Control, failure to scram" or EOP-1, "RPV control" after reactor shutdown status is determined.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-07

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received:

13 MIN TIMER INITIATED CP600R-B3
PRE-TREATMENT RAD HI HI CP600R-A4

PRE-TREATMENT RAD HI CP600R-B4

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-07

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the NWE.

The power transient has resulted in large fuel element failure.

ANTICIPATED PLAYER RESPONSE:

The operators should recognize fuel element failure.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-08

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received:

B-17 TRIP C3LC-D4

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-08

ELAPSED TIME 0010 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the NWE.

ANTICIPATED PLAYER RESPONSE:

Operators should recognize that Motor Control Center (MCC) B-17 has tripped. NWE will eventually request an OSC team to troubleshoot MCC B17.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-09

ELAPSED TIME 0012 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following annunciators are received in the control room.

DRYWELL PRESSURE HI C903C-A6.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-09

ELAPSED TIME 0012 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to the Watch Engineer.

A code safety valve has opened and failed to reseat properly upon closure. Steam leakage into the Drywell has caused high drywell pressure and elevated radiation levels.

ANTICIPATED PLAYER RESPONSE:

The operators should recognize high Drywell Pressure and elevated radiation levels.

An ALERT should be declared in accordance with EP-IP-100 on EAL 3.4.1.2 primary containment pressure > 2.2 psig or 1.2.1.2 air ejector off gas rad monitors > 20,000 MR/hr. A Gaitronics announcement should be made, CANS should be activated, the emergency facilities should be activated, and all offsite notifications should be made.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-10

ELAPSED TIME 0014 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received:

The white HPCI injection light on the C903 apron is lit.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-10

ELAPSED TIME 0014 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to the Watch Engineer

HPCI has lined up to inject based on a high drywell pressure signal.

ANTICIPATED PLAYER RESPONSE:

Operators should recognize that HPCI has lined up to inject. They should inhibit HPCI injection.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-11

ELAPSED TIME 0017 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received:

MAIN STACK RAD HI CP600R-B8

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-11

ELAPSED TIME 0017 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to the Watch Engineer

Main stack effluent radiation low range monitors have alarmed.

ANTICIPATED PLAYER RESPONSE:

Operators recognize high main stack readings. They should close MSIVs when they determine that fuel damage has occurred.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-12

ELAPSED TIME 0020 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Control Room Nuclear Operations Supervisor

INFORMATION:

Have the control room sound the station alarm and make the following announcement over the Gaitronics.

Please make the following Gaitronics announcement:

THIS IS A DRILL
THIS IS A DRILL

"Attention all personnel; attention all personnel: An Alert has been declared due to primary containment pressure greater than 2.2 psig (or Air or Offgas radiation monitors >20,000 MR/hr). All on-call members of the Emergency Response Organization report to your designated emergency response facility. If this were an actual event, all Pilgrim personnel would assemble in their normal office or shop area, report to their supervisor, and await instructions. All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel would leave the site at this time. For the purposes of this exercise, all non-exercise participants are to continue with your normal duties.

THIS IS A DRILL
THIS IS A DRILL

REPEAT MESSAGE

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-12

ELAPSED TIME 0020 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the On-shift NWE/NOS to announce the Alert.

ANTICIPATED PLAYER RESPONSE:

Sound station alarm and make announcement over Gaitronics.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-13X

ELAPSED TIME 0025 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer/NOS

CONTINGENCY ACTION MESSAGE:

Declare an Alert based on EAL 3.4.1.2.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-13X

ELAPSED TIME 0025 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the ED (NWE) only if an Alert has not been declared by this time.

ANTICIPATED PLAYER RESPONSE:

Implement EP-IP-100, Attachment 2, "Alert." Activate CANS. Make Offsite notifications.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-14

ELAPSED TIME 0100 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Repair Team Leader at MCC B-17 Breaker

INFORMATION:

MCC B-17 breaker at B-1 is hot and colored black, There is the smell of burnt electrical equipment . There is no smoke and no fire. Repair time is at least 3-4 hours.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-14

ELAPSED TIME 0100 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

This message should be provided to the OSC team when they arrive at B-17 Breaker B-1. Have team explain procedures, (including ALARA) tools/equipment needed, etc. to make repairs. The Breaker will eventually be repaired (see Message OSC-29). Do not allow repair before 0425.

ANTICIPATED PLAYER RESPONSE:

Report findings to the OSC.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-15

ELAPSED TIME 0115 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received:

A-1 LOCKOUT C3LC-C1
RFP A TRIP C1L-A1
RFP C TRIP C1L-A3
CONDENSER PUMP TRIP C1L-A6

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-15

ELAPSED TIME 0115 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the Watch Engineer

ANTICIPATED PLAYER RESPONSE:

Operators should recognize that Bus A1 has tripped. The TSC will be notified by the Control Room. A repair team should be assigned to trouble shoot the Bus-A1 trip.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-16

ELAPSED TIME 0130 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received.

GOV END BRG TEMP HI C904L-F1
CPLNG END BRG TEMP HI C904L-G1

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-16

ELAPSED TIME 0130 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the Watch Engineer. When operators initiate RCIC, the RCIC cooling water supply valve MO-1301-62 fails to open.

ANTICIPATED PLAYER RESPONSE:

The operators should request an OSC team to manually open the valve.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-17

ELAPSED TIME 0145 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Repair Team Leader at RCIC cooling water supply valve

INFORMATION:

RCIC cooling water supply valve has been opened locally.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-17

ELAPSED TIME 0145 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

This message will be presented to the repair team leader at the RCIC cooling water supply valve/control center after they demonstrate knowledge and procedures to open the valve.

Ensure that simulator controllers are notified immediately when the valve is opened.

ANTICIPATED PLAYER RESPONSE:

The repair team should demonstrate the physical and administrative actions and procedures necessary, including ALARA, to open the valve. They should report valve opening to OSC/CR.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-18

ELAPSED TIME 0155 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: OSC Teams at Bus A1

INFORMATION:

Bus A1 is faulted. It is hot and colored black. There is the smell of burnt electrical equipment . There is no smoke and no fire.. Bus A1 must be replaced. Replacement time is greater than 24 hours.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-18

ELAPSED TIME 0155 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to OSC Bus A1 team when they arrive. Have teams explain procedures (including ALARA), tools/equipment needed, etc. to make replacement.

ANTICIPATED PLAYER RESPONSE:

Report damage and replacement time to OSC.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-19

ELAPSED TIME 0155 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

Drywell CHRMS readings on RIT-1001-606A and B and RIT-1001-607A and B have increased to levels > 200 R/Hr.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-19

ELAPSED TIME 0155 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the NWE.

Drywell CHRMS readings have been increasing due to fission products (as a result of the fuel failure) entering the Drywell through the leaking safety valve.. The level is now above the EAL for a SITE AREA EMERGENCY. While primary containment radiation levels are high, the third and final barrier has not been breached.

ANTICIPATED PLAYER RESPONSE:

When the TSC & EOF become aware of the Drywell CHRMS radiation levels, the Emergency Director should declare a SITE AREA EMERGENCY in accordance with EP-IP-100 based on "Containment High Range Radiation Monitor readings > 200 R/Hr." (EAL 1.4.1.3). EP-IP-100, Attachment 3, "Site Area Emergency" should be implemented. A Gaitronics announcement should be made. The Emergency Plant Manager should be notified. Offsite agencies should be notified by the EOF.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-20

ELAPSED TIME 0205 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Control Room Nuclear Operations Supervisor

INFORMATION:

Have the Control Room sound the station alarm and make the following announcement over Gaitronics

THIS IS A DRILL
THIS IS A DRILL

Attention all personnel! Attention all personnel!! A SITE AREA EMERGENCY has been declared due to high containment radiation. Had this been an actual emergency, all personnel who are NOT part of the Emergency Response Organization would be directed to evacuate to the designated assembly area and would receive further instructions at your exit gate. For the purpose of the exercise, non-exercise participants are to continue with your normal duties.

THIS IS A DRILL
THIS IS A DRILL

(REPEAT MESSAGE)

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-20

ELAPSED TIME 0205 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the On Watch NOS.

ANTICIPATED PLAYER RESPONSE:

Announce the SAE over Gaitronics.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. EOF-21X

ELAPSED TIME 0215 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Emergency Director

INFORMATION:

Declare a SITE AREA EMERGENCY due to "Containment High Range Area Radiation Monitoring reading > 200 R/Hr." (EAL 1.4.1.3).

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. EOF-21X

ELAPSED TIME 0215 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Deliver this message only if a SITE AREA EMERGENCY has not been declared.

ANTICIPATED PLAYER RESPONSE:

A SITE AREA EMERGENCY should be declared. The control room should be prompted to make an announcement of the SITE AREA EMERGENCY. The EOF should implement EP-IP-100, Attachment 3, and make offsite notifications.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-22

ELAPSED TIME 0310 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following alarms/indications are received:

STEAM LEAKAGE AREA TEMP HI C904L-A6
HPCI ISOLATED C903C-A1
HPCI TURBINE TRIP C903C-A2
HPCI VALVES OVERLOAD C903C-D5
MO-2301-05 indicator lights on C903C are Red-Green

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-22

ELAPSED TIME 0310 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to the Watch Engineer.

A steam line break on HPCI has caused a steam leak into secondary containment. HPCI failed to auto-isolate. A radiation release to the environment occurs through SBGT.

ANTICIPATED PLAYER RESPONSE:

Operators recognize steam leak into secondary containment and failure of HPCI to auto-isolate. They enter EOP-4 and request manual isolation of HPCI.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-23

ELAPSED TIME 0320 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Repair team at HPCI

INFORMATION:

Manual isolation of HPCI is not possible due to mechanical failure of HPCI Isolation Valve 2301-05.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-23

ELAPSED TIME 0320 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to the OSC team leader at the "B" RHR valve room after they describe the procedure to isolate HPCI.

All preliminary considerations must be addressed -- ALARA, physical protection from hot steam, and administrative approvals. Proper clothing and equipment must be available and demonstrated.

NOTE: In-plant radiation readings assume that the HPCI Room air-tight door is ajar and steam is leaking out into the building. The atmosphere gets damper and the floors/walls/equipment get wetter as the stairs down to the RHR quad and HPCI room is approached. The stairwell is filled with steam.

ANTICIPATED PLAYER RESPONSE:

The repair team should demonstrate their ability to isolate HPCI. They must display or confirm that all administrative requirements have been met. When informed that HPCI cannot be isolated, they should report this to the OSC.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-24

ELAPSED TIME 0320 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

The following annunciators are received in the Control Room.

MAIN STACK RAD HI HI CP600R-A8
MAIN STACK RAD HI CP600R-B8

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-24

ELAPSED TIME 0320 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this information to the Watch Engineer.

Main stack effluent radiation levels have been increasing due to fission products (as a result of the fuel failure) entering the Reactor Bldg through the HPCI leak. The readings have increased above the alarm threshold which will sound in the Control Room. Readings will then quickly rise above the EAL for a GENERAL EMERGENCY.

ANTICIPATED PLAYER RESPONSE:

The operators should recognize increasing Main Stack Radiation levels.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-25

ELAPSED TIME 0325 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer

INFORMATION:

Main stack radiation monitors 1705-18A and B are reading > 2.4 E5CPS

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. SIM-25

ELAPSED TIME 0325 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this information to the Watch Engineer.

ANTICIPATED PLAYER RESPONSE:

When the TSC & EOF become aware of the Main Stack radiation levels, the Emergency Director should declare a GENERAL EMERGENCY in accordance with EP-IP-100 based on "Main stack radiation levels > 2.4 E5CPS (EAL 5.1.1.4). EP-IP-100, Attachment 4, "General Emergency should be implemented. A Gaitronics announcement should be made. The Emergency Plant Manager should be notified. Offsite agencies should be notified by the EOF. Protective Action Recommendations should be made to offsite authorities.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-26

ELAPSED TIME 0335 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Control Room Nuclear Operations Supervisor

INFORMATION:

Have the control room sound the station alarm and make the following announcement over Gaitronics.

THIS IS A DRILL
THIS IS A DRILL

"Attention all personnel! Attention all personnel! A GENERAL EMERGENCY has been declared due to a High Main Stack Radiation Levels. For the purpose of the exercise, all non-exercise participants are to continue with your normal duties. There will be no eating, drinking or smoking until further notice.

THIS IS A DRILL
THIS IS A DRILL

(REPEAT MESSAGE)

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. CR-26

ELAPSED TIME 0335 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Present this message to the On Watch NOS.

ANTICIPATED PLAYER RESPONSE:

Make the Gaitronics announcement.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. EOF-27X

ELAPSED TIME 0340 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Emergency Director

INFORMATION:

Declare a GENERAL EMERGENCY based on EAL 5.1.1.4

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. EOF-27X

ELAPSED TIME 0340 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Deliver this message only if a GENERAL EMERGENCY has not been declared.

ANTICIPATED PLAYER RESPONSE:

The Emergency Director should declare a GENERAL EMERGENCY in accordance with EAL 5.1.1.4. EP-IP-100, Attachment 4, "General Emergency" should be implemented. An announcement should be made on Gaitronics. Offsite notifications should be made from the EOF. PARs should be provided to the Commonwealth by the Emergency Director.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. EOF-28

ELAPSED TIME 0345 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: ED/EOM/Offsite Rad. Supervisor

INFORMATION:

We have spoken with Steve Centore, the Region I DOE RAP Team Leader, He will have an advance team with 4 Rad. Monitors here within 4 hours. He can also have the Region I Mobile Laboratory (with extensive monitoring/analysis capabilities) and 6 additional personnel here within 8 hours.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. EOF-28

ELAPSED TIME 0345 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the EOF staff about 10 minutes after they request assistance.

ANTICIPATED PLAYER RESPONSE:

Dose Assessment/EOF management should recognize the need for additional monitoring assistance and request it from the NRC EOF Rep. They should plan monitoring and assessment around the additional resources.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-29

ELAPSED TIME 0425 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: OSC team at MCC B-17 Breaker B-1

INFORMATION:

Breaker B-1 has been repaired. MCC B-17 is available/operational.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. OSC-29

ELAPSED TIME 0425 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the B-17 team. Do not allow repair before 0425. Ensure that you notify the Simulator controllers immediately after giving this message to the players.

ANTICIPATED PLAYER RESPONSE:

OSC team should notify the OSC/CR simulator of the repair of B-1 and B-17 availability.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. AII-30

ELAPSED TIME 0500 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

MESSAGE FOR: Watch Engineer
Emergency Director
Emergency Plant Manager
Company Spokesperson in the Media Center

INFORMATION:

The 1999 Evaluated Exercise is terminated. Have the Control Room make following Gaitronics announcement.

Attention! Attention! This is the Control Room. The Pilgrim Nuclear Power Station 1999 Evaluated Exercise has been completed. No further exercise announcements will be made.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE

MESSAGE FORM

SCENARIO NO. 99-06 MESSAGE NO. AII-30

ELAPSED TIME 0500 TIME _____

THIS IS A DRILL
DO NOT INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the person in charge of each facility only when the Lead Exercise Controller has determined that all objectives have been tested.

ANTICIPATED PLAYER RESPONSE:

All players should assemble all of the written material that was generated during the exercise for assembly by the Lead Facility Controller. All logbooks, procedure manuals, and engineering materials should be returned to the proper files.

THIS IS A DRILL
DO NO INITIATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	Reactor Power	RPV Pressure	RPV Water Level	Drywell Temp	Torus Water Temp	Torus Water Level	Drywell Pressure	Torus Pressure	Containment H2	Containment O2
-0:15	100	1033	30	110	73	129	1.30	-0.01	0	0
0:00	100	1033	30	110	73	129	1.30	-0.01	0	0
0:01	68	993	28	106	73	129	1.27	-0.01	0	0
0:05	3	935	29	114	78	129	1.50	0.50	0	0
0:15	3	905	31	127	78	130	2.66	1.26	0	0
0:30	2	803	30	187	84	131	6.6	5.1	0	0
0:45	1	707	30	214	88	131	9.3	8.2	0	0
1:00	1	567	30	222	92	130	10.7	9.7	0	0
1:15	1	446	20	224	95	130	11.1	10.3	0	0
1:30	1	370	10	228	94	130	12.5	11.3	0	0
1:45	1	309	10	234	93	129	13.7	12.4	0	0
2:00	1	248	10	236	92	129	14.1	12.9	0	0
2:15	1	208	10	239	91	129	14.2	13.1	0	0
2:30	1	182	10	242	91	129	14.6	13.5	0	0
2:45	1	152	10	245	92	129	15.0	14.1	0	0
3:00	1	100	10	246	92	130	16.4	15.0	0	0
3:15	1	50	10	226	88	130	13.4	12.0	0	0
3:30	1	50	10	200	86	129	10.4	9.4	0	0
3:45	1	50	10	179	83	129	7.1	5.7	0	0
4:00	0.5	50	10	157	80	129	4.3	3.0	0	0
4:15	0.5	50	10	138	78	129	2.3	1.3	0	0
4:30	0.5	50	10	122	76	129	1.7	0.8	0	0
4:45	0.5	50	10	117	74	129	1.3	0.4	0	0
5:00	0.5	50	10	110	73	129	1.3	0.1	0	0

This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	UAT	S/U XFMR	S/D SFMR	EDG A	EDG B	BODG	Trip Signal	MODE SWITCH	SBLC A	SBLC B	SBLC Level
-0:15	insrvc	avail	avail	avail	avail	avail	_____	Run	avail	avail	4,300
0:00	insrvc	avail	avail	avail	avail	avail	_____	Run	avail	avail	4,300
0:01	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
0:05	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
0:15	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
0:30	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
0:45	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
1:00	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
1:15	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
1:30	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
1:45	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
2:00	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
2:15	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
2:30	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
2:45	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
3:00	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
3:15	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
3:30	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
3:45	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
4:00	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
4:15	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
4:30	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
4:45	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300
5:00	oos	insrvc	avail	insrvc	insrvc	avail	Manual	S/D	avail	avail	4,300

This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	RHR A	RHR C	A RHR Loop Flow	A RHR MODE	RHR B	RHR D	B RHR Loop Flow	B RHR MODE	CS A	A CS Loop Flow	CS B	B CS Loop Flow
-0:15	avail	avail	0		avail	avail	0		avail	0	avail	0
0:00	avail	avail	0		avail	avail	0		avail	0	avail	0
0:01	avail	avail	0		avail	avail	0		avail	0	avail	0
0:05	avail	avail	0		avail	avail	0		avail	0	avail	0
0:15	avail	avail	0		avail	avail	0		avail	0	avail	0
0:30	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
0:45	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
1:00	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
1:15	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
1:30	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
1:45	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
2:00	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
2:15	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
2:30	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
2:45	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
3:00	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
3:15	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
3:30	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
3:45	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
4:00	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
4:15	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
4:30	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
4:45	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0
5:00	insrvc	insrvc	4900	Torus Cooling	insrvc	insrvc	4,900	Torus Cooling	avail	0	avail	0

This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	GP 1 Req	GP 2 Req	GP 3 Req	GP 4 Req	GP 5 Req	GP 6 Req	GP 1 Isol	GP 2 Isol	GP 3 Isol	GP 4 Isol	GP 5 Isol	GP 6 Isol	PCIS Bypassed
-0:15	N	N	Y	N	N	N	N	N	Y	N	N	N	
0:00	N	N	Y	N	N	N	N	N	Y	N	N	N	
0:01	N	Y	Y	N	N	Y	N	Y	Y	N	N	Y	
0:05	N	Y	Y	N	N	Y	N	Y	Y	N	N	Y	
0:15	N	Y	Y	N	N	Y	N	Y	Y	N	N	Y	
0:30	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
0:45	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
1:00	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
1:15	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
1:30	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
1:45	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
2:00	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
2:15	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
2:30	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
2:45	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
3:00	N	Y	Y	N	N	Y	Y	Y	Y	N	N	Y	
3:15	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
3:30	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
3:45	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
4:00	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
4:15	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
4:30	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
4:45	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	
5:00	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	

This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	RBCCW A	RBCCW B	RBCCW C	RBCCW D	RBCCW E	RBCCW F	TBCCW A	TBCCW B	SSW A	SSW B	SSW D	SSW E	SSW C	SEA WATER A	SEA WATER B
-0:15	avail	insrvc	avail	avail	avail	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc
0:00	avail	insrvc	avail	avail	avail	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc
0:01	avail	insrvc	avail	avail	avail	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	avail	avail
0:05	avail	insrvc	avail	avail	avail	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	avail	avail
0:15	avail	insrvc	avail	avail	avail	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
0:30	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
0:45	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
1:00	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
1:15	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
1:30	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
1:45	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
2:00	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
2:15	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
2:30	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
2:45	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
3:00	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
3:15	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
3:30	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
3:45	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
4:00	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
4:15	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
4:30	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
4:45	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail
5:00	insrvc	insrvc	avail	avail	insrvc	insrvc	insrvc	avail	insrvc	insrvc	insrvc	insrvc	avail	avail	avail

This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	HPCI STATUS	HPCI MODE	RCIC STATUS	RCIC MODE	RECIRC A	A Recirc Speed	RECIRC B	B Recirc Speed	CRD A	CRD B	SBGT A	SBGT B
-0:15	avail		avail		insrvc	69.8	insrvc	69.8	insrvc	insrvc	avail	avail
0:00	avail		avail		insrvc	69.8	insrvc	69.8	insrvc	insrvc	avail	avail
0:01	avail		avail		avail	28	avail	28	insrvc	insrvc	avail	insrvc
0:05	avail		avail		avail	28	avail	28	insrvc	insrvc	avail	insrvc
0:15	avail		avail		avail	0	avail	28	insrvc	insrvc	avail	insrvc
0:30	avail		avail		avail	0	avail	28	insrvc	insrvc	avail	insrvc
0:45	avail		avail		avail	0	avail	28	insrvc	insrvc	avail	insrvc
1:00	avail		avail		avail	0	avail	28	insrvc	insrvc	avail	insrvc
1:15	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
1:30	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
1:45	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
2:00	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
2:15	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
2:30	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
2:45	avail		insrvc	Level Control	avail	0	avail	28	insrvc	insrvc	avail	insrvc
3:00	avail		avail		avail	0	avail	28	insrvc	insrvc	avail	insrvc
3:15	oos		avail		avail	0	avail	28	insrvc	insrvc	avail	insrvc
3:30	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc
3:45	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc
4:00	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc
4:15	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc
4:30	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc
4:45	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc
5:00	oos		oos		avail	0	avail	28	insrvc	insrvc	avail	insrvc

This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

99-06A

PLANT PARAMETER SUMMARY

Elapsed Time	COND A	COND B	COND C	FEED A	FEED B	FEED C	A CST Level	B CST Level	RB VENT	RB d/p
-0:15	insrvc	insrvc	insrvc	insrvc	insrvc	insrvc	32	32	insrvc	-0.25
0:00	insrvc	insrvc	insrvc	insrvc	insrvc	insrvc	32	32	insrvc	-0.25
0:01	insrvc	insrvc	insrvc	insrvc	oos	avail	32	32	isolated	-0.25
0:05	insrvc	insrvc	avail	insrvc	oos	avail	32	32	isolated	-0.25
0:15	insrvc	insrvc	avail	insrvc	oos	avail	32	32	isolated	-0.25
0:30	insrvc	insrvc	avail	insrvc	oos	avail	32	32	isolated	-0.25
0:45	insrvc	insrvc	avail	insrvc	oos	avail	32	32	isolated	-0.25
1:00	insrvc	insrvc	avail	insrvc	oos	avail	32	32	isolated	-0.25
1:15	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
1:30	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
1:45	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
2:00	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
2:15	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
2:30	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
2:45	avail	oos	avail	oos	oos	oos	32	32	isolated	-0.25
3:00	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
3:15	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
3:30	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
3:45	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
4:00	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
4:15	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
4:30	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
4:45	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25
5:00	insrvc	oos	avail	oos	oos	oos	32	32	isolated	-0.25

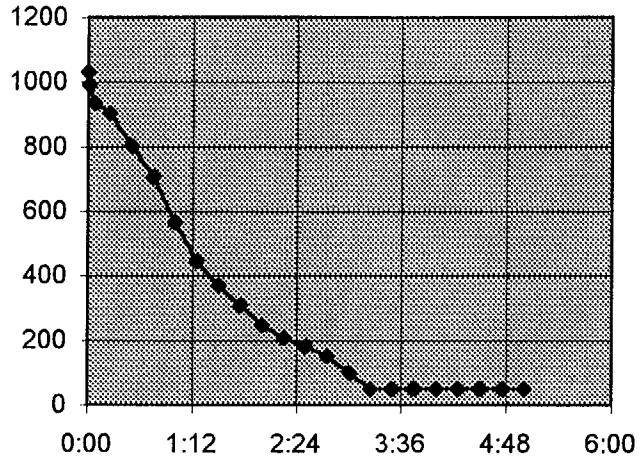
This is a Drill

PILGRIM NUCLEAR POWER STATION
1999 EVALUATED EXERCISE

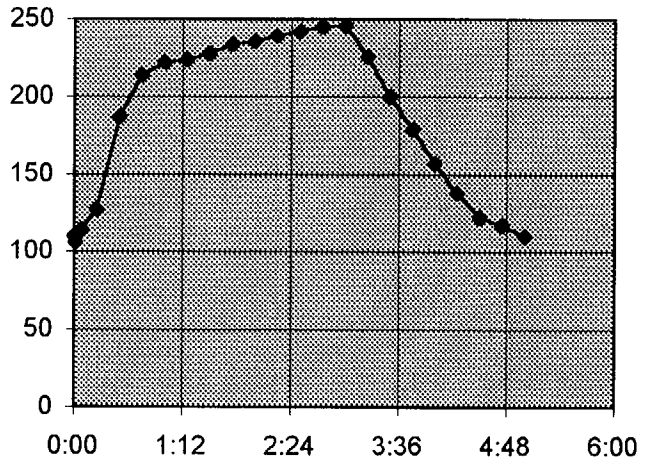
99-06A

PLANT PARAMETER SUMMARY

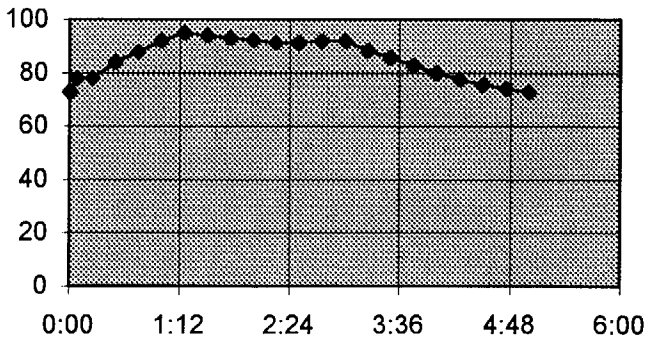
Rx Pressure



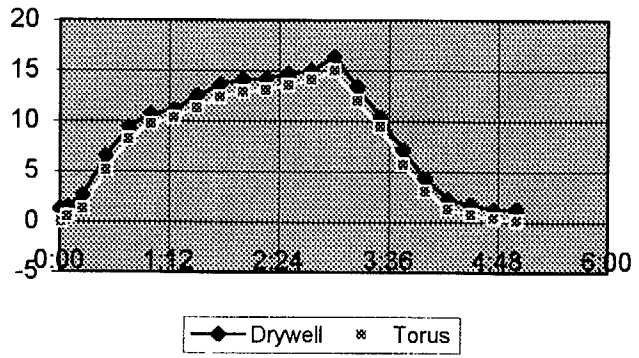
Drywell Temp



Torus Water Temp



Drywell/Torus Pressure



This is a Drill

This is a Drill

1 AC POWER SOURCES

UAT	insrvc
S/U XFMR	avail
S/D XFMR	avail
EDG A	avail
EDG B	avail
BODG	avail

2 SAFEGUARDS

Rx Trip Signal _____

Mode Switch: Run

SBLC Pumps: A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A avail, C avail

Loop Flow 0 gpm

Loop B: B avail, D avail

Loop Flow 0 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	N	(MSIVs)
GP 2	N	N	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	N	N	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	avail
		B	insrvc
		C	avail
	Loop B	D	avail
		E	avail
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	avail
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	insrvc
		B	insrvc

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A insrvc, 69.8 % speed

Recirc Pumps A insrvc, 69.8 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B avail

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C insrvc

Feed Pumps A insrvc, B insrvc, C insrvc

CST Level A 32 ft., B 32 ft.

13 RB VENT

insrvc

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	-0:15	TREND ↑←→↓
REACTOR POWER	%	100	↔
RPV PRESSURE	psig	1033	↔
RPV WATER LEVEL	inches	30	↔
DRYWELL TEMP	deg F	110	↔
TORUS WATER TEMP	deg F	73	↔
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.30	↔
TORUS PRESSURE	psig	-0.01	↔
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	insrvc
S/U XFMR	avail
S/D XFMR	avail
EDG A	avail
EDG B	avail
BODG	avail

2 SAFEGUARDS

Rx Trip Signal _____

Mode Switch: Run

SBLC Pumps: A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A avail, C avail

Loop Flow 0 gpm

Loop B: B avail, D avail

Loop Flow 0 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	N	(MSIVs)
GP 2	N	N	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	N	N	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	avail
		B	insrvc
		C	avail
	Loop B	D	avail
		E	avail
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	avail
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	insrvc
		B	insrvc

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A insrvc, 69.8 % speed

Recirc Pumps A insrvc, 69.8 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B avail

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C insrvc

Feed Pumps A insrvc, B insrvc, C insrvc

CST Level A 32 ft., B 32 ft.

13 RB VENT

insrvc

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	0:00	TREND ↑←→↓
REACTOR POWER	%	100	↔
RPV PRESSURE	psig	1033	↔
RPV WATER LEVEL	inches	30	↔
DRYWELL TEMP	deg F	110	↔
TORUS WATER TEMP	deg F	73	↔
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.30	↔
TORUS PRESSURE	psig	-0.01	↔
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A avail, C avail

Loop Flow 0 gpm

Loop B: B avail, D avail

Loop Flow 0 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	N	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	avail
		B	insrvc
		C	avail
	Loop B	D	avail
		E	avail
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	avail
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A avail, 28 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C insrvc

Feed Pumps A insrvc, B oos, C avail

CST Level A 32 ft., B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 0:01	TREND ↑←→↓
REACTOR POWER	%	68	↓
RPV PRESSURE	psig	993	↓
RPV WATER LEVEL	inches	28	↓
DRYWELL TEMP	deg F	106	↓
TORUS WATER TEMP	deg F	73	↔
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.27	↓
TORUS PRESSURE	psig	-0.01	↔
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A avail, C avail

Loop Flow 0 gpm

Loop B: B avail, D avail

Loop Flow 0 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	N	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	avail
		B	insrvc
		C	avail
	Loop B	D	avail
		E	avail
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	avail
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A avail, 28 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C avail

Feed Pumps A insrvc, B oos, C avail

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 0:05	TREND ↑←→↓
REACTOR POWER	%	3	↓
RPV PRESSURE	psig	935	↓
RPV WATER LEVEL	inches	29	↑
DRYWELL TEMP	deg F	114	↑
TORUS WATER TEMP	deg F	78	↑
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.50	↑
TORUS PRESSURE	psig	0.50	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A avail, C avail

Loop Flow 0 gpm

Loop B: B avail, D avail

Loop Flow 0 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	N	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	avail
		B	insrvc
		C	avail
	Loop B	D	avail
		E	avail
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C avail

Feed Pumps A insrvc, B oos, C avail

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	0:15	TREND ↑←→↓
REACTOR POWER	%	3	↔
RPV PRESSURE	psig	905	↓
RPV WATER LEVEL	inches	31	↑
DRYWELL TEMP	deg F	127	↑
TORUS WATER TEMP	deg F	78	↔
TORUS WATER LEVEL	inches	130	↑
DRYWELL PRESSURE	psig	2.66	↑
TORUS PRESSURE	psig	1.26	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C avail

Feed Pumps A insrvc, B oos, C avail

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 0:30	TREND ↑←→↓
REACTOR POWER	%	2	↓
RPV PRESSURE	psig	803	↓
RPV WATER LEVEL	inches	30	↓
DRYWELL TEMP	deg F	187	↑
TORUS WATER TEMP	deg F	84	↑
TORUS WATER LEVEL	inches	131	↑
DRYWELL PRESSURE	psig	6.6	↑
TORUS PRESSURE	psig	5.1	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC	A	avail
Pumps	B	avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps	A	avail
		0 % speed
Recirc Pumps	A	avail
		28 % speed

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	insrvc
	B	insrvc
	C	avail
Feed Pumps	A	insrvc
	B	oos
	C	avail

CST Level A 32 ft.

B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	0:45	TREND ↑←→↓
REACTOR POWER	%	1	↓
RPV PRESSURE	psig	707	↓
RPV WATER LEVEL	inches	30	↔
DRYWELL TEMP	deg F	214	↑
TORUS WATER TEMP	deg F	88	↑
TORUS WATER LEVEL	inches	131	↔
DRYWELL PRESSURE	psig	9.3	↑
TORUS PRESSURE	psig	8.2	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B insrvc, C avail

Feed Pumps A insrvc, B oos, C avail

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 1:00	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	567	↓
RPV WATER LEVEL	inches	30	↔
DRYWELL TEMP	deg F	222	↑
TORUS WATER TEMP	deg F	92	↑
TORUS WATER LEVEL	inches	130	↓
DRYWELL PRESSURE	psig	10.7	↑
TORUS PRESSURE	psig	9.7	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A avail, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	1:15	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	446	↓
RPV WATER LEVEL	inches	20	↓
DRYWELL TEMP	deg F	224	↑
TORUS WATER TEMP	deg F	95	↑
TORUS WATER LEVEL	inches	130	↔
DRYWELL PRESSURE	psig	11.1	↑
TORUS PRESSURE	psig	10.3	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps	A	avail
	B	avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A:	A	insrvc
	C	insrvc

Torus Cooling

Loop Flow 4900 gpm

Loop B:	B	insrvc
	D	insrvc

Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps	A	avail
	0 % speed	
Recirc Pumps	A	avail
	28 % speed	

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	avail
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos

CST Level A 32 ft.

B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	1:30	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	370	↓
RPV WATER LEVEL	inches	10	↓
DRYWELL TEMP	deg F	228	↑
TORUS WATER TEMP	deg F	94	↓
TORUS WATER LEVEL	inches	130	↔
DRYWELL PRESSURE	psig	12.5	↑
TORUS PRESSURE	psig	11.3	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A avail, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	1:45	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	309	↓
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	234	↑
TORUS WATER TEMP	deg F	93	↓
TORUS WATER LEVEL	inches	129	↓
DRYWELL PRESSURE	psig	13.7	↑
TORUS PRESSURE	psig	12.4	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A avail, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	2:00	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	248	↓
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	236	↑
TORUS WATER TEMP	deg F	92	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	14.1	↑
TORUS PRESSURE	psig	12.9	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps	A	avail
	0 % speed	
Recirc Pumps	A	avail
	28 % speed	

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	avail
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos

CST Level A 32 ft.

B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	2:15	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	208	↓
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	239	↑
TORUS WATER TEMP	deg F	91	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	14.2	↑
TORUS PRESSURE	psig	13.1	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps	A	avail
		0 % speed
Recirc Pumps	A	avail
		28 % speed

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	avail
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos

CST Level A 32 ft.

B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 2:30	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	182	↓
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	242	↑
TORUS WATER TEMP	deg F	91	↔
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	14.6	↑
TORUS PRESSURE	psig	13.5	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

insrvc

Level Control

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A avail, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 2:45	TREND ↑←→↓
REACTOR POWER	%	1	↓
RPV PRESSURE	psig	152	↓
RPV WATER LEVEL	inches	10	↓
DRYWELL TEMP	deg F	245	↑
TORUS WATER TEMP	deg F	92	↑
TORUS WATER LEVEL	inches	129	↓
DRYWELL PRESSURE	psig	15.0	↑
TORUS PRESSURE	psig	14.1	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	N	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

avail

8 RCIC

avail

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	3:00	TREND ↑←→↓
REACTOR POWER	%	1	↓
RPV PRESSURE	psig	100	↓
RPV WATER LEVEL	inches	10	↓
DRYWELL TEMP	deg F	246	↑
TORUS WATER TEMP	deg F	92	↑
TORUS WATER LEVEL	inches	130	↓
DRYWELL PRESSURE	psig	16.4	↑
TORUS PRESSURE	psig	15.0	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps	A	avail
	B	avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc
C insrvc
Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc
D insrvc
Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A:
avail

Loop Flow:
0 gpm

Loop B:
avail

Loop Flow:
0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

avail

9 RECIRC

Recirc Pumps	A	avail
		0 % speed
Recirc Pumps	A	avail
		28 % speed

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	insrvc
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos

CST Level A 32 ft.
B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 3:15	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	50	↓
RPV WATER LEVEL	inches	10	↓
DRYWELL TEMP	deg F	226	↑
TORUS WATER TEMP	deg F	88	↑
TORUS WATER LEVEL	inches	130	↓
DRYWELL PRESSURE	psig	13.4	↑
TORUS PRESSURE	psig	12.0	↑
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 3:30	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	50	↓
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	200	↓
TORUS WATER TEMP	deg F	86	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	10.4	↓
TORUS PRESSURE	psig	9.4	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps A avail 0 % speed

Recirc Pumps A avail 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 3:45	TREND ↑←→↓
REACTOR POWER	%	1	↔
RPV PRESSURE	psig	50	↔
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	179	↓
TORUS WATER TEMP	deg F	83	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	7.1	↓
TORUS PRESSURE	psig	5.7	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 4:00	TREND ↑←→↓
REACTOR POWER	%	0.5	↓
RPV PRESSURE	psig	50	↔
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	157	↓
TORUS WATER TEMP	deg F	80	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	4.3	↓
TORUS PRESSURE	psig	3.0	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps	A	avail
	B	avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps	A	avail
		0 % speed
Recirc Pumps	A	avail
		28 % speed

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	insrvc
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos

CST Level A 32 ft.

B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 4:15	TREND ↑←→↓
REACTOR POWER	%	0.5	↔
RPV PRESSURE	psig	50	↔
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	138	↓
TORUS WATER TEMP	deg F	78	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	2.3	↓
TORUS PRESSURE	psig	1.3	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps A avail, B avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps A avail, 0 % speed

Recirc Pumps A avail, 28 % speed

10 CRD

CRD Pumps A insrvc, B insrvc

11 SBGT

A avail

B insrvc

12 FEED/COND

Cond Pumps A insrvc, B oos, C avail

Feed Pumps A oos, B oos, C oos

CST Level A 32 ft. B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME 4:30	TREND ↑←→↓
REACTOR POWER	%	0.5	↔
RPV PRESSURE	psig	50	↔
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	122	↓
TORUS WATER TEMP	deg F	76	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.7	↓
TORUS PRESSURE	psig	0.8	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC Pumps	A	avail
	B	avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc, C insrvc — Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc, D insrvc — Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A: avail

Loop Flow: 0 gpm

Loop B: avail

Loop Flow: 0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps	A	avail
	0 % speed	
Recirc Pumps	A	avail
	28 % speed	

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	insrvc
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos
CST Level	A 32 ft.	
	B 32 ft.	

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	4:45	TREND ↑←→↓
REACTOR POWER	%	0.5	↔
RPV PRESSURE	psig	50	↔
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	117	↓
TORUS WATER TEMP	deg F	74	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.3	↓
TORUS PRESSURE	psig	0.4	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

1 AC POWER SOURCES

UAT	oos
S/U XFMR	insrvc
S/D XFMR	avail
EDG A	insrvc
EDG B	insrvc
BODG	avail

2 SAFEGUARDS

Rx Trip Signal Manual

Mode Switch S/D

SBLC	A	avail
Pumps	B	avail

SBLC TK LVL 4,300 gal

3 RHR Mode

Loop A: A insrvc
C insrvc
Torus Cooling

Loop Flow 4900 gpm

Loop B: B insrvc
D insrvc
Torus Cooling

Loop Flow 4,900 gpm

4 CS

Loop A:
avail

Loop Flow:
0 gpm

Loop B:
avail

Loop Flow:
0 gpm

5 PCIS

	Required	Isolated	
GP 1	N	Y	(MSIVs)
GP 2	Y	Y	(Pri Cont)
GP 3	Y	Y	(SDC)
GP 4	Y	N	(HPCI)
GP 5	N	N	(RCIC)
GP 6	Y	Y	(RWCU)

Bypassed _____

6 COOLING WATER

RBCCW Pumps	Loop A	A	insrvc
		B	insrvc
		C	avail
	Loop B	D	avail
		E	insrvc
		F	insrvc
TBCCW Pumps		A	insrvc
		B	avail

SSW Pumps	Loop A	A	insrvc
		B	insrvc
	Loop B	D	insrvc
		E	insrvc
	Swing	C	avail
Sea Water Pumps		A	avail
		B	avail

7 HPCI

oos

8 RCIC

oos

9 RECIRC

Recirc Pumps	A	avail
	0 % speed	
Recirc Pumps	A	avail
	28 % speed	

10 CRD

CRD Pumps	A	insrvc
	B	insrvc

11 SBGT

A	avail
B	insrvc

12 FEED/COND

Cond Pumps	A	insrvc
	B	oos
	C	avail
Feed Pumps	A	oos
	B	oos
	C	oos

CST Level A 32 ft.
B 32 ft.

13 RB VENT

isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

	TIME	5:00	TREND ↑←→↓
REACTOR POWER	%	0.5	↔
RPV PRESSURE	psig	50	↔
RPV WATER LEVEL	inches	10	↔
DRYWELL TEMP	deg F	110	↓
TORUS WATER TEMP	deg F	73	↓
TORUS WATER LEVEL	inches	129	↔
DRYWELL PRESSURE	psig	1.3	↔
TORUS PRESSURE	psig	0.1	↓
CONTAIN. H_2 CONC.	%	0	↔
CONTAIN. O_2 CONC.	%	0	↔

A. In-Plant Data

1. The core damage assessment was calculated using PNPS EP-IP-330 "Core Damage", Rev. 2B. The radionuclide relative abundance used are consistent with those listed in NEDO-22215 "Procedures for the Determination of Core Damage Under Accident Conditions", for fuel gap activity release ratios.

2. The postulated accident that occurs within the scenario will yield approximately 10% fuel cladding damage. All in-plant area radiation, airborne monitoring instrumentation and general area information will reflect measurements consistent with this amount of damage.

3. It is assumed that the reactor has been operating at a design power level of 1,998 MWT for ~280 days with no recent reactor shutdown.

4. Dose rates from post accident samples were calculated using the Radiological Health Handbook rule of thumb: R/hr at 1 foot = 6xCxE, where C is the number of curies and E is the energy in MeV. E is conservatively assumed to be 0.5 MeV for iodine and 0.7 MeV for noble gases. Shielded values assume a 2 inch and 4 inch lead pig if used.

5. In-plant radiological data will be provided to plant teams only when they perform appropriate tasks and request specific information.

B. Off-site Data

1. The release path of radioactive material to the environment is postulated when a steam line breaks on HPCI that results in a steam leak into the HPCI area of the secondary containment. The released radioactive steam is then exhausted through the Standby Gas Treatment (SBGT) system to the main stack and released to the environment.

2. No filtering credit is allowed for the noble gases. Filtering efficiency for iodine and particulate removal via SBGT is taken to be approximately 99%.

3. Stack release rates are based on a release flow rate of 24,000 CFM for the low range main stack monitor and 4,000 CFM for the high range main stack monitor. These flow rates are consistent with isolation of the reactor building ventilation, initiation of the Reactor Building Emergency ventilation system, and continued use of Waste Building, Off Gas Building, and Turbine Building (high) fans.

4. The off-site dose projections (downwind gamma dose rates and air sample readings) were calculated using PNPS Dose Assessment Program DAPAR version 1.1. The field survey values presented are rounded off to provide realistic survey meter responses.

5. For gamma (dose rates) survey readings taken by field monitoring teams, the following information was used:

   a) If a count rate instrument (E140N or Ludlum–12 with HP-210 probe) is used to track the plume, the meter count rate of 1,500 cpm on the count rate instrument is equivalent to approximately 1.0 mR/hr.

   b) Whenever a team takes a "ground level" survey, the results are assumed to be the same as the "waist level" survey until after the plume has passed.

   c) Certain field monitoring teams may take open window and closed window readings with their dose rate survey meters. If a team is located in the plume and air concentration is greater than zero, assume the open window reading is approximately two times the closed window reading for the gamma dose rate reading.

6. For air sample measurements taken by field monitoring teams, the following information was used:

   a) If the field monitoring teams substitute a charcoal cartridge instead of the absorber media cartridge (silver zeolite) contained in the field monitoring kits, then all air sample data will be given as though the absorber media cartridges (silver zeolite) was used in the kits.

   b) Air sample volume assumptions have been used in the calculation of the net count rates for the air sample results. The sample volume was assumed to be 20-cubic foot for both Pilgrim and Massachusetts field monitoring teams. If different volumes are collected, the air sample data provided in the tables should be adjusted proportionally.

   c) Air sample net count rates for the adsorber media cartridges (silver zeolite) provided in the field data tables have been developed using DAPAR thyroid dose projections. The air sample net count rates were developed using this formula:

$$Conc.(uCi/cc) = \frac{netcpmxConversionFactor}{ExFxT}$$

where: E = Instrument Detector Efficiency in cpm/dpm (counts per disintegration)
F = Flow rate of sample in cfm
T = Sample collection time in minutes
CF = Conversion Factor (1.6 E-11 uCi-ft^3/dpm-cc)

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE, BOSTON MA.

A low pressure zone will remain in the region for today. Overcast weather conditions will continue with mostly cloudy skies and seasonable temperatures. High temperatures will be in the mid 40s and winds will be moderate from the East-Southeast. Tonight continued cloudy and cool with a chance of rain developing this evening. Chance of rain near 50 percent. Skies expected to clear by tomorrow morning with an area of high pressure dominating the region for the next several days.

GREATER BOSTON METROPOLITAN AREA
NORTHWESTERN, COASTAL, AND SOUTHWESTERN MA.

This morning cloudy and cool with temperatures ranging 35° to 45°F. Winds from the East-Southeast at 5 to 10 MPH with gusts of up to 15 MPH.

This afternoon continued overcast with temperatures 35° to 45°. Winds from the Southeast at 8 to 10 MPH with gusts of up to 15 MPH.

This evening rain possibly with temperatures 35° to 45°. Winds from the Southeast at 8 to 10 MPH with gusts of up to 15 MPH. 40% chance of precipitation.

Tonight cloudy and breezy with temperatures 35° to 40°. Winds from the Southeast at 10 to 15 MPH with gusts of up to 20 MPH.

Tomorrow decreasing cloudiness with high temperatures 40° to 45°. Winds steady from the ESE at 5 to 10 MPH. 20% chance of precipitation.

Long range forecast - Clear skies with high temperatures 35° to 45° and low temperatures 25° to 35°. Winds will be steady from the SE at 5 to 10 MPH.

CAPE COD AND THE ISLANDS,
SOUTH COASTAL, AND COASTAL R.I.

This morning cloudy and breezy with temperatures ranging from 30° to 40°F. Winds from the East-Southeast at 8 to 10 MPH with gusts of up to 15 MPH.

This afternoon continued cloudy and seasonable temperatures 35° to 45°. Winds from the East-Southeast at 10 to 15MPH with gusts of up to 20 MPH. 20% chance of precipitation.

This evening rain likely with temperatures 40° to 45°. Winds from the Southeast 10 to 15 MPH with gusts of up to 20 MPH. 60% chance of precipitation.

Tonight cloudy and cool with temperatures 35° to 40°. Winds from the Southeast 10 to 15 MPH with gusts of up to 25 MPH. 30% chance of precipitation.

Tomorrow decreasing cloudiness with high temperatures 40° to 45°. Winds steady from the ESE 8 to 10 MPH. 20% chance of precipitation.

Long range forecast - Clear skies with high temperatures 35° to 45° and low temperatures 25° to 35°. Winds will be steady from the SE at 8 to 10 MPH.

Meteorological, Vent and Flow Data

Meteorological Data

Scenario Time	220' Tower °From	220' Tower MPH	160' Tower °From	160' Tower MPH	33' Tower °From	33' Tower MPH	Delta T °F	Air Temp °F
00:00	118	10.0	116	9.5	120	8.7	-1.0	40
00:10	118	10.0	116	9.5	120	8.7	-1.0	40
00:15	119	10.0	117	9.5	121	8.7	-1.0	40
00:30	118	8.0	116	7.5	120	6.7	-1.2	42
00:45	119	9.0	117	8.5	121	7.7	-1.2	42
01:00	118	10.0	116	9.5	120	8.7	-1.1	42
01:15	117	11.0	115	10.5	119	9.7	-1.1	42
01:30	116	9.0	114	8.5	118	7.7	-1.1	43
01:45	116	10.0	114	9.5	118	8.7	-1.2	43
02:00	117	10.0	115	9.5	119	8.7	-1.2	45
02:15	117	8.0	115	7.5	119	6.7	-1.3	45
02:30	116	10.0	114	9.5	118	8.7	-1.2	46
02:45	116	9.0	114	8.5	118	7.7	-1.2	46
03:00	115	9.0	113	8.5	117	7.7	-1.0	46
03:15	115	9.0	113	8.5	117	7.7	-1.0	47
03:30	115	8.0	113	7.5	117	6.7	-1.0	48
03:45	114	8.0	112	7.5	116	6.7	-1.1	48
04:00	114	8.0	112	7.5	116	6.7	-1.1	50
04:15	115	8.0	113	7.5	117	6.7	-1.2	50
04:30	115	8.0	113	7.5	117	6.7	-1.2	52
04:45	115	8.0	113	7.5	117	6.7	-1.2	52
05:00	112	8.0	110	7.5	114	6.7	-1.3	52
05:15	112	8.0	110	7.5	114	6.7	-1.3	51
05:30	112	8.0	110	7.5	114	6.7	-1.3	51

Vent and Flow Data

SBGT CFM	RB Vent CFM	Mn Stack CFM	TB Vent CFM
ISOLATED	105,000	16,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20 000	140,000
4,000	ISOLATED	20,000	140,000
4,000	ISOLATED	20,000	140,000

Effluent Radiation Monitor Data

ERM-1: MAIN STACK LOW (CPS)
ERM-2: MAIN STACK HIGH (R/HR)
ERM-3: RB VENT LOW (CPS)
ERM-4: RB VENT HIGH (R/HR)
ERM-5: TB VENT HIGH (R/HR)

Time	ERM-1	ERM-2	ERM-3	ERM-4	ERM-5
00:00	1.50E+01	DS	2.00E+01	DS	DS
00:10	3.00E+01	DS	4.00E+01	DS	DS
00:15	4.50E+03	DS	3.00E+01	DS	DS
00:30	1.20E+03	DS	2.50E+01	DS	DS
00:45	2.00E+01	DS	2.00E+01	DS	DS
01:00	2.00E+01	DS	2.00E+01	DS	DS
01:15	2.00E+01	DS	2.00E+01	DS	DS
01:30	2.00E+01	DS	2.00E+01	DS	DS
01:45	2.00E+01	DS	2.00E+01	DS	DS
02:00	2.00E+01	DS	2.00E+01	DS	DS
02:15	2.00E+01	DS	2.00E+01	DS	DS
02:30	2.00E+01	DS	2.00E+01	DS	DS
02:45	2.00E+01	DS	2.00E+01	DS	DS
03:00	2.00E+01	DS	2.00E+01	DS	DS
03:15	1.00E+05	DS	2.00E+01	DS	DS
03:30	5.00E+05	DS	2.00E+01	DS	DS
03:45	5.00E+05	DS	2.00E+01	DS	DS
04:00	4.00E+05	DS	2.00E+01	DS	DS
04:15	4.00E+05	DS	2.00E+01	DS	DS
04:30	3.00E+05	DS	2.00E+01	DS	DS
04:45	1.00E+05	DS	2.00E+01	DS	DS
05:00	9.00E+04	DS	2.00E+01	DS	DS
05:15	8.50E+04	DS	2.00E+01	DS	DS
05:30	7.20E+04	DS	2.00E+01	DS	DS

Notes:
DS = Down Scale

Area Radiation Monitor Trend Data

(All ARM's Read in mR/hr)
1705-60 CHARCOAL BED VAULT
ARM-1 COND. PUMP STAIR
ARM-2 FEEDWATER HEATERS
ARM-3 MAIN CONTROL ROOM
ARM-4 TURB FRONT STANDARD
ARM-5 RADWASTE CORRIDOR
ARM-6 RADWASTE SUMP AREA
ARM-7 CHEM. WASTE TANK
ARM-8 OUTSIDE TIP ROOM
ARM-9 RADWASTE SHIP. LOCK
ARM-10 RX ACCESS AREA S.E.
ARM-11 NEW FUEL RACKS
ARM-12 NEW FUEL VAULT
ARM-13 SHIELD PLUG AREA
ARM-14 SPENT FUEL POOL AREA

Time	1705-60	ARM-1	ARM-2	ARM-3	ARM-4	ARM-5	ARM-6	ARM-7	ARM-8	ARM-9	ARM-10	ARM-11	ARM-12	ARM-13	ARM-14
00:00	120.00	3.00	145.00	0.04	50.00	10.00	20.00	10.00	0.08	3.00	4.00	0.20	0.50	1.00	10.00
00:10	120.00	20.00	1500.00	0.04	500.00	10.00	20.00	10.00	0.08	3.00	4.00	0.20	0.50	1.00	10.00
00:15	120.00	10.00	950.00	0.04	380.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
00:30	115.00	8.00	640.00	0.04	220.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
00:45	115.00	2.00	5.00	0.04	2.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
01:00	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
01:15	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
01:30	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
01:45	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
02:00	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
02:15	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
02:30	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
02:45	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
03:00	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	8.00	3.00	40.00	0.20	0.50	0.90	10.00
03:15	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH(>1E2)	3.00	OSH(>1E2)	0.20	0.50	0.90	10.00
03:30	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
03:45	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
04:00	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
04:15	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
04:30	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
04:45	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
05:00	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
05:15	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00
05:30	115.00	2.00	4.00	0.04	1.00	10.00	20.00	10.00	OSH	3.00	OSH	0.20	0.50	0.90	10.00

Notes:
OSH = Off Scale High

Process Radiation Monitor Trend Data

PRM-1 MAIN STEAM LINE A mR/hr
PRM-2 MAIN STEAM LINE B mR/hr
PRM-3 MAIN STEAM LINE C mR/hr
PRM-4 MAIN STEAM LINE D mR/hr
PRM-5 AIR EJECTOR OFF GAS mR/hr
PRM-6 RBCCW LOOP A CPS
PRM-7 RBCCW LOOP B CPS
PRM-8 REFUEL FLOOR VENT mR/hr
PRM-9 SBGT SYSTEM mR/hr
PRM-10 CONTROL ROOM INTAKE mR/hr
PRM-11 RADWASTE DISCH. CPS
PRM-12 OG POST TREATMENT CPS
PRM-13 DRYWELL CHRMS A R/hr
PRM-14 DRYWELL CHRMS B R/hr
PRM-15 TORUS CHRMS A R/hr
PRM-16 TORUS CHRMS B R/hr

Time	PRM-1	PRM-2	PRM-3	PRM-4	PRM-5	PRM-6	PRM-7	PRM-8	PRM-9	PRM-10	PRM-11	PRM-12	PRM-13	PRM-14	PRM-15	PRM-16
00:00	2.65E+03	3.40E+03	3.05E+03	2.55E+03	4.00E+01	2.50E+02	1.50E+02	5.00E+00	3.00E+00	5.00E-02	1.00E+02	2.00E+02	2.50E+00	2.80E+00	DS	DS
00:10	3.30E+04	4.20E+04	4.20E+04	3.30E+04	3.00E+04	1.50E+04	1.80E+04	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.50E+04	1.20E+00	1.20E+00	1.10E+00	1.10E+00
00:15	2.80E+04	4.00E+04	4.00E+04	2.80E+04	2.40E+04	1.20E+04	1.60E+04	5.00E+00	8.00E+00	5.00E-02	1.00E+02	1.30E+05	1.00E+00	5.00E+00	1.00E+00	2.00E+00
00:30	1.27E+04	1.62E+04	1.65E+04	1.27E+04	1.20E+04	1.10E+04	1.50E+04	5.00E+00	3.00E+00	5.00E-02	1.00E+02	6.85E+04	1.00E+00	1.00E+01	1.00E+00	4.00E+00
00:45	9.50E+01	1.25E+02	1.15E+02	9.50E+01	5.00E+01	1.00E+04	1.47E+04	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.00E+01	1.00E+00	8.00E+00
01:00	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	9.90E+03	1.35E+04	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	9.00E+01	1.00E+00	9.00E+00
01:15	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	9.00E+03	1.20E+04	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	1.20E+02	1.00E+00	1.00E+01
01:30	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.20E+03	1.00E+04	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	1.50E+02	1.00E+00	1.50E+01
01:45	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	7.70E+03	9.00E+03	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	1.80E+02	1.00E+00	2.00E+01
02:00	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	6.70E+03	8.50E+03	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	2.30E+02	1.00E+00	2.50E+01
02:15	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	6.40E+03	8.40E+03	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	2.80E+02	1.00E+00	2.80E+01
02:30	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	5.80E+03	7.00E+03	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.30E+02	1.00E+00	3.00E+01
02:45	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	5.20E+03	6.80E+03	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.50E+02	1.00E+00	3.50E+01
03:00	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	2.80E+03	5.60E+03	5.00E+00	3.00E+00	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.60E+02	1.00E+00	3.80E+01
03:15	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	1.80E+03	4.40E+03	5.00E+00	2.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
03:30	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	1.50E+03	3.50E+03	5.00E+00	4.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
03:45	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	1.20E+03	2.00E+03	5.00E+00	7.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
04:00	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
04:15	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
04:30	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
04:45	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
05:00	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
05:15	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01
05:30	1.50E+01	1.80E+01	1.20E+01	1.40E+01	4.50E+01	8.00E+02	1.50E+03	5.00E+00	8.00E+02	5.00E-02	1.00E+02	4.00E+02	1.00E+00	3.80E+02	1.00E+00	4.00E+01

Notes:
DS = Down Scale

AREA RADIATION MONITORS

TIME: 0:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		120.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		3.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		145.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		50.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		0.1 mR/Hr		10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		4.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		1.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 00:10

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		120.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		20.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		1500.0 mR/Hr	X	10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		500.0 mR/Hr	X	10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		0.1 mR/Hr		10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		4.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		1.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 0:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		120.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		950.0 mR/Hr	X	10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		380.0 mR/Hr	X	10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 0:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		8.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		640.0 mR/Hr	X	10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		220.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 0:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		5.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		2.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 1:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 1:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 1:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 1:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 2:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 2:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 2:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 2:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 3:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		8.0 mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		40.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 3:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 3:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 3:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 4:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 4:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 4:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 4:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 5:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 5:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

AREA RADIATION MONITORS

TIME: 5:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-60	Charcoal Vault Area AOG		115.0 mR/Hr		10^{-1} - 10^{4}
C911/ARM-1	Cond. Pump Stairway		2.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-2	Feedwater Heaters		4.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-3	Main Control Room		0.04 mR/Hr		10^{-2} - 10^{2}
C911/ARM-4	Turbine-Front Standard		1.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-5	Radwaste-Corridor		10.0 mR/Hr		10^{-1} - 10^{3}
C911/ARM-6	Radwaste-Sump Area		20.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-7	Chem. Waste Tank		10.0 mR/Hr		10^{0} - 10^{4}
C911/ARM-8	Rx-Outside TIP Room		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-9	Radwaste Shipping Lock		3.0 mR/Hr		10^{-2} - 10^{2}
C911/ARM-10	Rx Access Area (S.E.)		OSH mR/Hr	X	10^{-2} - 10^{2}
C911/ARM-11	New Fuel Racks		0.2 mR/Hr		10^{-1} - 10^{3}
C911/ARM-12	New Fuel Vault		0.5 mR/Hr		10^{-1} - 10^{3}
C911/ARM-13	Shield Plug Area		0.9 mR/Hr		10^{-1} - 10^{3}
C911/ARM-14	Spent Fuel Pool Area		10.0 mR/Hr		10^{-1} - 10^{3}

1705-60} 200 mR/Hr
ARM-1} 55 mR/Hr
ARM-2} 600 mR/Hr
ARM-3} 1 mR/Hr
ARM-4} 450 mR/Hr
ARM-5} 15 mR/Hr
ARM-6} 6000 mR/Hr
ARM-7} 300 mR/Hr
ARM-8} 5 mR/Hr
ARM-9} 50 mR/Hr
ARM-10} 60 mR/Hr
ARM-11} 6 mR/Hr
ARM-12} 40 mR/Hr
ARM-13} 40 mR/Hr
ARM-14} 30 mR/Hr

OOS -- Out of Service OSH -- Off Scale Hi DS -- Down Scale

PROCESS RADIATION MONITORS

TIME: 0:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		15.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		2645 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		3400 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		3050 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		2550 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		40 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		250 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		150 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		200 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		2.5 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		2.8 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		DS R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		DS R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) ISOLATED

Rx Bldg (CFM) 105000

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.00				
Outside Temp (°F)	40.0	Dir (from)	118	___	120	Deg.
Stability Class	_____*	Speed	10.0	___	8.7	MPH
Precip	_____*					

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 00:10

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		30.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		33000 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line B		42000 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line C		42000 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line D		33000 mR/Hr	Hi Hi	10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		30000.0 mR/Hr	Hi Hi	10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		15000.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		18000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		45000 CPS	Hi	10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		1 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		1 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.00				
Outside Temp (°F)	40.0	Dir (from)	118	___	120	Deg.
Stability Class	_____*	Speed	10.0	___	8.7	MPH
Precip	_____*					

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 0:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		4500.0 CPS	Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		30.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		28000 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line B		40000 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line C		40000 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line D		28000 mR/Hr	Hi Hi	10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		24000.0 mR/Hr	Hi Hi	10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		12000.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		16000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		8.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		130000 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		5 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		2 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.00				
Outside Temp (°F)	40.0	Dir (from)	119	___	121	Deg.
Stability Class	_____*	Speed	10.0	___	8.7	MPH
Precip	_____*					

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 0:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		1200.0 CPS	Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		25.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		12700 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line B		16200 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line C		16500 mR/Hr	Hi Hi	10^{0} - 10^{6}
	Main Steam Line D		12700 mR/Hr	Hi Hi	10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		12000.0 mR/Hr	Hi Hi	10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		11000.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		15000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		68500 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		10 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		4 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.20

Outside Temp (°F) 42.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	118	___	120	Deg.
Speed	8.0	___	6.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 0:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		95 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		125 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		115 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		95 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		50.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		10000.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		14700.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		30 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		8 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.20

Outside Temp (°F) 42.0

Stability Class _____*

Precip _____*

	220'	*160'	33'	
Dir (from)	119	___	121	Deg.
Speed	9.0	___	7.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 1:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		9900.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		13500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		90 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		9 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.10

Outside Temp (°F) 42.0

Stability Class _____*

Precip _____*

	220'	*160'	33'	
Dir (from)	118	___	120	Deg.
Speed	10.0	___	8.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 1:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		9000.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		12000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		120 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		10 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.10

Outside Temp (°F) 42.0

Stability Class _____*

Precip _____*

	220'	*160'	33'	
Dir (from)	117	___	119	Deg.
Speed	11.0	___	9.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 1:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		8200.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		10000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		150 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		15 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.10				
Outside Temp (°F)	43.0	Dir (from)	116	___	118	Deg.
Stability Class	_____*	Speed	9.0	___	7.7	MPH
Precip	_____*					

*Not Available In Control Room OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 1:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		7700.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		9000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		180 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		20 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.20

Outside Temp (°F) 43.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	116	___	118	Deg.
Speed	10.0	___	8.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 2:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		6700.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		8500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.1 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		230 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		25 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.20

Outside Temp (°F) 45.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	117	___	119	Deg.
Speed	10.0	___	8.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 2:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		6400.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		8400.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3.0 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		280 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		28 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.30

Outside Temp (°F) 45.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	117	___	119	Deg.
Speed	8.0	___	6.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 2:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		5800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		7000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.1 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		330 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		30 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.20				
Outside Temp (°F)	46.0	Dir (from)	116	___	118	Deg.
Stability Class	_____*	Speed	10.0	___	8.7	MPH
Precip	_____*					

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 2:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		5200.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		6800.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		350 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		35 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.20

Outside Temp (°F) 46.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	116	___	118	Deg.
Speed	9.0	___	7.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 3:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		2800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		5600.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		3 mR/Hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		360 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		38 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.00

Outside Temp (°F) 46.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	115	___	117	Deg.
Speed	9.0	___	7.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 3:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		1.00E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		4400.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		200 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.00

Outside Temp (°F) 47.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	115	___	117	Deg.
Speed	9.0	___	7.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 3:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		5.00E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		15 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		18 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		12 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		14 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		3500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		400 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.00

Outside Temp (°F) 48.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	115	___	117	Deg.
Speed	8.0	___	6.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 3:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		5.0E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1200.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		2000.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		700 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.10				
Outside Temp (°F)	48.0	Dir (from)	114	___	116	Deg.
Stability Class	_____*	Speed	8.0	___	6.7	MPH
Precip	_____*				

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 4:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		4.00E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.1 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack _____ CFM*

TB Vent _____ CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.10

Outside Temp (°F) 50.0

Stability Class _____*

Precip _____*

	220'	*160'	33'	
Dir (from)	114	___	116	Deg.
Speed	8.0	___	6.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 4:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		4.0E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800.0 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.1 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400.0 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380.0 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40.0 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack CFM*

TB Vent CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.20				
Outside Temp (°F)	50.0	Dir (from)	115.0	117.0	Deg.
Stability Class	_____*	Speed	8.0	6.7	MPH
Precip	_____*				

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 4:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		3.00E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800.0 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400.0 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380.0 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40.0 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack CFM*

TB Vent CFM*

MET DATA Panel MT1

	220'	*160'	33'	
Delta Temp (°F)	-1.20			
Outside Temp (°F)	52.0			
Dir (from)	115.0		117.0	Deg.
Speed	8.0		6.7	MPH
Stability Class	_____*			
Precip	_____*			

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 4:45

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		1.00E+05 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800.0 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.1 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400.0 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380.0 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40.0 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA Panel MT1

Delta Temp (°F) -1.20

Outside Temp (°F) 52.0

Stability Class _____ *

Precip _____ *

	220'	*160'	33'	
Dir (from)	115.0	113.0	117.0	Deg.
Speed	8.0	7.5	6.7	MPH

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 5:00

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		9.00E+04 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800.0 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400.0 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380.0 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40.0 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack CFM*

TB Vent CFM*

MET DATA Panel MT1

	220'	*160'	33'	
Delta Temp (°F)	-1.30			
Outside Temp (°F)	52.0			
Dir (from)	112.0		114.0	Deg.
Speed	8.0		6.7	MPH
Stability Class	_____*			
Precip	_____*			

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 5:15

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		8.50E+04 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800.0 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.05 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400.0 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380.0 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40.0 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000 Main Stack CFM*

Rx Bldg (CFM) ISOLATED TB Vent CFM*

MET DATA Panel MT1

		220'	*160'	33'	
Delta Temp (°F)	-1.30				
Outside Temp (°F)	51.0	Dir (from)	112.0	114.0	Deg.
Stability Class	_____*	Speed	8.0	6.7	MPH
Precip	_____*				

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

PROCESS RADIATION MONITORS

TIME: 5:30

PANEL/ID NO.	MONITOR	TREND	READING	ALARM IN	RANGE
C910/1705-18	Main Stack Lo		7.2E+04 CPS	Hi Hi	10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		20.0 CPS		10^{-1} - 10^{6}
C910/1001-609	Rx Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1001-610	Turbine Bldg Vent Hi		DS R/Hr		10^{-1} - 10^{4}
C910/1705-2	Main Steam Line A		1.5E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line B		1.8E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line C		1.2E+01 mR/Hr		10^{0} - 10^{6}
	Main Steam Line D		1.4E+01 mR/Hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		45.0 mR/Hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		800.0 CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500.0 CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5.0 mR/Hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		800.0 mR/Hr	Hi	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		0.1 mR/Hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		100.0 CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		400.0 CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Drywell CHRMS B		380.0 R/Hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		1.0 R/Hr		10^{-1} - 10^{7}
	Torus CHRMS B		40.0 R/Hr		10^{-1} - 10^{7}

FLOW RATES Panel C7

SBGT (CFM) 4000

Rx Bldg (CFM) ISOLATED

Main Stack CFM*

TB Vent CFM*

MET DATA Panel MT1

	220'	*160'	33'	
Delta Temp (°F)	-1.30			
Outside Temp (°F)	51.0			
Dir (from)	112.0		114.0	Deg.
Speed	8.0		6.7	MPH
Stability Class	_____*			
Precip	_____*			

*Not Available In Control Room

OOS-Out of Service OSH-Off Scale Hi DS-Down Scale

THIS IS A DRILL

THIS IS A DRILL

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	15.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	15.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 0:00

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	40.0	OFFGAS POST-TREATMENT A	RM-1705-5A	200.0
OFFGAS LOG RAD B	RM-1705-3B	40.0	OFFGAS POST-TREATMENT B	RM-1705-5B	200.0
CARBON BED VAULT	RM-1705-60	120.0	RBCCW A PROCESS	RM-1705-4A	250.0
			RBCCW B PROCESS	RM-1705-4B	150.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	2645.0	DRYWELL A	RIT1001-606A	2.5
MAIN STEAM LINE B	RM-1705-2B	3400.0	DRYWELL B	RIT1001-606B	2.8
MAIN STEAM LINE C	RM-1705-2C	3050.0	TORUS A	RIT1001-607A	DS
MAIN STEAM LINE D	RM-1705-2D	2550.0	TORUS B	RIT1001-607B	DS

PILGRIM 0:00

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	30.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	40.0	CPS
STACK GAS #2	RM-1705-18B	30.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	40.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 00:10

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	30000.0	OFFGAS POST-TREATMENT A	RM-1705-5A	45000.0
OFFGAS LOG RAD B	RM-1705-3B	30000.0	OFFGAS POST-TREATMENT B	RM-1705-5B	45000.0
CARBON BED VAULT	RM-1705-60	120.0	RBCCW A PROCESS	RM-1705-4A	15000.0
			RBCCW B PROCESS	RM-1705-4B	18000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	33000.0	DRYWELL A	RIT1001-606A	1.2
MAIN STEAM LINE B	RM-1705-2B	42000.0	DRYWELL B	RIT1001-606B	1.2
MAIN STEAM LINE C	RM-1705-2C	42000.0	TORUS A	RIT1001-607A	1.1
MAIN STEAM LINE D	RM-1705-2D	33000.0	TORUS B	RIT1001-607B	1.1

PILGRIM 00:10

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	4500.0 CPS	RX BLDG EXH VENT A	RM-1705-32A	30.0 CPS
STACK GAS #2	RM-1705-18B	4500.0 CPS	RX BLDG EXH VENT B	RM-1705-32B	30.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	8.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 0:15

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	24000.0	OFFGAS POST-TREATMENT A	RM-1705-5A	130000.0
OFFGAS LOG RAD B	RM-1705-3B	24000.0	OFFGAS POST-TREATMENT B	RM-1705-5B	130000.0
CARBON BED VAULT	RM-1705-60	120.0	RBCCW A PROCESS	RM-1705-4A	12000.0
			RBCCW B PROCESS	RM-1705-4B	16000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	28000.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	40000.0	DRYWELL B	RIT1001-606B	5.0
MAIN STEAM LINE C	RM-1705-2C	40000.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	28000.0	TORUS B	RIT1001-607B	2.0

PILGRIM 0:15

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	1200.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	25.0	CPS
STACK GAS #2	RM-1705-18B	1200.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	25.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 0:30

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	12000.0	OFFGAS POST-TREATMENT A	RM-1705-5A	68500.0
OFFGAS LOG RAD B	RM-1705-3B	12000.0	OFFGAS POST-TREATMENT B	RM-1705-5B	68500.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	11000.0
			RBCCW B PROCESS	RM-1705-4B	15000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	12700.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	16200.0	DRYWELL B	RIT1001-606B	10.0
MAIN STEAM LINE C	RM-1705-2C	16500.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	12700.0	TORUS B	RIT1001-607B	4.0

PILGRIM 0:30

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 0:45

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	50.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	50.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	10000.0
			RBCCW B PROCESS	RM-1705-4B	14700.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	95.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	125.0	DRYWELL B	RIT1001-606B	30.0
MAIN STEAM LINE C	RM-1705-2C	115.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	95.0	TORUS B	RIT1001-607B	8.0

PILGRIM 0:45

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 1:00

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	9900.0
			RBCCW B PROCESS	RM-1705-4B	13500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	90.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	9.0

PILGRIM 1:00

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	20.0 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	20.0 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	3.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 1:15

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	9000.0
			RBCCW B PROCESS	RM-1705-4B	12000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	120.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	10.0

PILGRIM 1:15

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 1:30

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	8200.0
			RBCCW B PROCESS	RM-1705-4B	10000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	150.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	15.0

PILGRIM 1:30

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 1:45

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	7700.0
			RBCCW B PROCESS	RM-1705-4B	9000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	180.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	20.0

PILGRIM 1:45

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 2:00

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	6700.0
			RBCCW B PROCESS	RM-1705-4B	8500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	230.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	25.0

PILGRIM 2:00

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 2:15

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	6400.0
			RBCCW B PROCESS	RM-1705-4B	8400.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	280.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	28.0

PILGRIM 2:15

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	20.0	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	20.0	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	3.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 2:30

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	5800.0
			RBCCW B PROCESS	RM-1705-4B	7000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	330.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	30.0

PILGRIM 2:30

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	20.0 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	20.0 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	3.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 2:45

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	5200.0
			RBCCW B PROCESS	RM-1705-4B	6800.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	350.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	35.0

PILGRIM 2:45

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	20.0 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	20.0 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	3.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 3:00

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	2800.0
			RBCCW B PROCESS	RM-1705-4B	5600.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	360.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	38.0

PILGRIM 3:00

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	1.00E+05 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	1.00E+05 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	200.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 3:15

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	1800.0
			RBCCW B PROCESS	RM-1705-4B	4400.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM 3:15

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	5.00E+05	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	5.00E+05	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	400.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 3:30

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	1500.0
			RBCCW B PROCESS	RM-1705-4B	3500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM 3:30

SPDS 111/112 Displays

111 RPV NORMAL — EFFLUENT RADIATION — CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	5.00E+05 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	5.00E+05 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	700.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 3:45

112 RPV NORMAL — PROCESS RADIATION — CNTMT NORMAL

MSL RAD NORMAL | PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	1200.0
			RBCCW B PROCESS	RM-1705-4B	2000.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM 3:45

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	4.00E+05	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	4.00E+05	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	800.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 4:00

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	1500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM 4:00

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	4.00E+05 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	4.00E+05 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	800.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM *** 4:15

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	1500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM *** 4:15

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	3.00E+05 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	3.00E+05 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	800.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM *** 4:30

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	1500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	6.0	TORUS B	RIT1001-607B	40.0

PILGRIM *** 4:30

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS	VENT	INSTR NO.	UNITS
STACK GAS #1	RM-1705-18A	1.00E+05 CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0 CPS
STACK GAS #2	RM-1705-18B	1.00E+05 CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0 CPS
MAIN STACK GAS	RT-1001-608	DS R/HR	RX BLDG EXH VENT	RT-1001-609	DS R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0 mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0 CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0 mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0 mR/HR	SBGT DISCHARGE	RM-1705-9	800.0 mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0 mR/HR			
REFUEL FLR VENT EXH		NORMAL			

PILGRIM 4:45

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	1500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001- 8	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.00
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM *** 4:45

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	9.00E+04	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	9.00E+04	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	800.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM ***

5:00

28

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	1500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM ***

5:00

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	8.50E+04	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	8.50E+04	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	800.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 5:15

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	0.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM 5:15

SPDS 111/112 Displays

111 RPV NORMAL

EFFLUENT RADIATION

CNTMT NORMAL

EFFL RAD NORMAL

VENT	INSTR NO.	UNITS		VENT	INSTR NO.	UNITS	
STACK GAS #1	RM-1705-18A	7.20E+04	CPS	RX BLDG EXH VENT A	RM-1705-32A	20.0	CPS
STACK GAS #2	RM-1705-18B	7.20E+04	CPS	RX BLDG EXH VENT B	RM-1705-32B	20.0	CPS
MAIN STACK GAS	RT-1001-608	DS	R/HR	RX BLDG EXH VENT	RT-1001-609	DS	R/HR
REFUEL FLR VENT EXH A	RM-1705-8A	5.0	mR/HR	RADWASTE EFFLUENT	RM-1705-30	100.0	CPS
REFUEL FLR VENT EXH B	RM-1705-8B	5.0	mR/HR	TURB BLDG ROOF EXH	RT-1001-610	DS	R/HR
REFUEL FLR VENT EXH C	RM-1705-8C	5.0	mR/HR	SBGT DISCHARGE	RM-1705-9	800.0	mR/HR
REFUEL FLR VENT EXH D	RM-1705-8D	5.0	mR/HR				
REFUEL FLR VENT EXH		NORMAL					

PILGRIM 5:30

112 RPV NORMAL

PROCESS RADIATION

CNTMT NORMAL

MSL RAD NORMAL

PROC RAD NORMAL

PROCESS	INSTR NO.	mR/HR	PROCESS	INSTR NO.	CPS
OFFGAS LOG RAD A	RM-1705-3A	45.0	OFFGAS POST-TREATMENT A	RM-1705-5A	400.0
OFFGAS LOG RAD B	RM-1705-3B	45.0	OFFGAS POST-TREATMENT B	RM-1705-5B	400.0
CARBON BED VAULT	RM-1705-60	115.0	RBCCW A PROCESS	RM-1705-4A	800.0
			RBCCW B PROCESS	RM-1705-4B	1500.0

MAIN STEAM LINE	INSTR NO.	mR/HR	(HI RANGE)	INSTR NO.	R/HR
MAIN STEAM LINE A	RM-1705-2A	15.0	DRYWELL A	RIT1001-606A	1.0
MAIN STEAM LINE B	RM-1705-2B	18.0	DRYWELL B	RIT1001-606B	380.0
MAIN STEAM LINE C	RM-1705-2C	12.0	TORUS A	RIT1001-607A	1.0
MAIN STEAM LINE D	RM-1705-2D	14.0	TORUS B	RIT1001-607B	40.0

PILGRIM 5:30

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	2.5
DRYWELL B	RIT 1001-606B	2.8
TORUS A	RIT1001-607A	DS
TORUS B	RIT1001-607B	DS

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	0.08
RX BLDG ACCESS-SE	RE-10	4.0
TURB BLDG COND PMP STAIRWAY	RE-1	3.0
TURBINE FRONT STANDARD	RE-4	50.0
FW HEATER STAIRWAY	RE-2	145.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	1.0

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 0:00

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.2
DRYWELL B	RIT 1001-606B	1.2
TORUS A	RIT1001-607A	1.1
TORUS B	RIT1001-607B	1.1

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	0.08
RX BLDG ACCESS-SE	RE-10	4.0
TURB BLDG COND PMP STAIRWAY	RE-1	20.0
TURBINE FRONT STANDARD	RE-4	500.0
FW HEATER STAIRWAY	RE-2	1500.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	1.0
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 00:10

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	5.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	2.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	10.0
TURBINE FRONT STANDARD	RE-4	380.0
FW HEATER STAIRWAY	RE-2	950.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 0:15

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	10.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	4.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	8.0
TURBINE FRONT STANDARD	RE-4	220.0
FW HEATER STAIRWAY	RE-2	640.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 0:30

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	30.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	8.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	2.0
FW HEATER STAIRWAY	RE-2	5.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 0:45

This is a Drill

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	90.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	9.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 1:00

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	120.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	10.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 1:15

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	150.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	15.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 1:30

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	180.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	20.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 1:45

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	230.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	25.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 2:00

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	280.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	28.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 2:15

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	330.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	30.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 2:30

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	350.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	35.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 2:45

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	360.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	38.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	8.0
RX BLDG ACCESS-SE	RE-10	40.0
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9

AREA	INSTR NO.	mR/HR
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 3:00

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 3:15

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 3:30

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 3:45

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 4:00

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 4:15

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.20
REFUEL FLR-NEW FUEL VAULT	RE-12	0.50
REFUEL FLR-SPENT FUEL POOL	RE-14	10.00
REFUEL FLR-SHIELD	RE-13	0.90
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 4:30

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 4:45

This is a Drill

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 5:00

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM *** 5:15

413 NORMAL

AREA RADIATION

NORMAL

EFFL RAD NORMAL | MSL RAD NORMAL | AREA RAD NORMAL

AREA (HI RANGE)	INSTR NO.	R/HR
DRYWELL A	RIT1001-606A	1.0
DRYWELL B	RIT 1001-606B	380.0
TORUS A	RIT1001-607A	1.0
TORUS B	RIT1001-607B	40.0

AREA	INSTR NO.	mR/HR
MAIN CONTROL ROOM	RE-3	0.04
MAIN CONTROL ROOM INTAKE	RM-1705-16	0.05
RX BLDG OUTSIDE TIP RM	RE-8	OSH
RX BLDG ACCESS-SE	RE-10	OSH
TURB BLDG COND PMP STAIRWAY	RE-1	2.0
TURBINE FRONT STANDARD	RE-4	1.0
FW HEATER STAIRWAY	RE-2	4.0

AREA	INSTR NO.	mR/HR
NEW FUEL RACKS	RE-11	0.2
REFUEL FLR-NEW FUEL VAULT	RE-12	0.5
REFUEL FLR-SPENT FUEL POOL	RE-14	10.0
REFUEL FLR-SHIELD	RE-13	0.9
RADWASTE SUMP	RE-6	20.0
RADWASTE CHEM WST REC TANK	RE-7	10.0
RADWASTE CORRIDOR	RE-5	10.0
RADWASTE SHIPPING LOCK	RE-9	3.0

PILGRIM 5:30

Dose Assessment

Method: Monitored Release Time: 11:21 Date: 9/20/99

Release Path: <RCS>-<RB>-<SBGT>-<ENV> PRF: 0.004

Core Damage: 10% Gap Time After S/D (hours): 3:00

Release Height: Elevated Release Duration (hours): 5:55

Wind Direction (from): 115° Vent Flow Rate (SCFM): 24000

Monitor: Main Stack Low Range Reading (CPS): 3.50E+05

Distance (miles)	External (mR/hr)	External (Rem)	Inhalation (Rem)	Deposition (Rem)	Total Dose (Rem)	Thyroid (Rem)
S.B.	4.12E-06	1.40E-08	6.34E-09	2.73E-09	2.30E-08	1.30E-07
0.5	1.80E+00	6.08E-03	2.76E-03	1.19E-03	1.00E-02	5.65E-02
1.0	5.96E+00	2.02E-02	9.16E-03	3.95E-03	3.33E-02	1.88E-01
1.5	5.46E+00	1.85E-02	8.39E-03	3.62E-03	3.05E-02	1.72E-01
2.0	4.57E+00	1.55E-02	7.03E-03	3.03E-03	2.55E-02	1.44E-01
2.5	3.88E+00	1.31E-02	5.96E-03	2.58E-03	2.17E-02	1.22E-01
3.0	3.36E+00	1.14E-02	5.16E-03	2.23E-03	1.87E-02	1.06E-01
3.5	2.95E+00	9.98E-03	4.53E-03	1.95E-03	1.65E-02	9.27E-02
4.0	2.62E+00	8.87E-03	4.03E-03	1.74E-03	1.46E-02	8.25E-02
4.5	2.36E+00	7.97E-03	3.62E-03	1.56E-03	1.32E-02	7.41E-02
5.0	2.13E+00	7.23E-03	3.28E-03	1.42E-03	1.19E-02	6.71E-02
5.5	1.95E+00	6.59E-03	2.99E-03	1.29E-03	1.09E-02	6.12E-02
6.0	1.78E+00	6.03E-03	2.74E-03	1.18E-03	9.95E-03	5.61E-02
6.5	1.64E+00	5.54E-03	2.52E-03	1.09E-03	9.15E-03	5.15E-02
7.0	1.51E+00	5.11E-03	2.32E-03	1.00E-03	8.43E-03	4.75E-02
7.5	1.38E+00	4.69E-03	2.13E-03	9.18E-04	7.73E-03	4.36E-02
8.0	1.28E+00	4.33E-03	1.97E-03	8.49E-04	7.15E-03	4.02E-02
8.5	1.18E+00	4.01E-03	1.82E-03	7.86E-04	6.62E-03	3.73E-02
9.0	1.10E+00	3.72E-03	1.69E-03	7.29E-04	6.14E-03	3.46E-02
9.5	1.02E+00	3.47E-03	1.57E-03	6.79E-04	5.72E-03	3.22E-02
10.0	9.55E-01	3.23E-03	1.47E-03	6.33E-04	5.33E-03	3.00E-02

Whole Body PAGs

Thyroid PAGs

Dose Assessment

Protective Action Recommendations

Time: 11:21 Date: 9/20/99

Assessment Method:
Monitored Release

Conditions:
1) Off Season 3) Midday
2) Midweek 4) Good

Stability Class: D

Wind Direction (from): 115°

Wind Speed (mph): 9.0

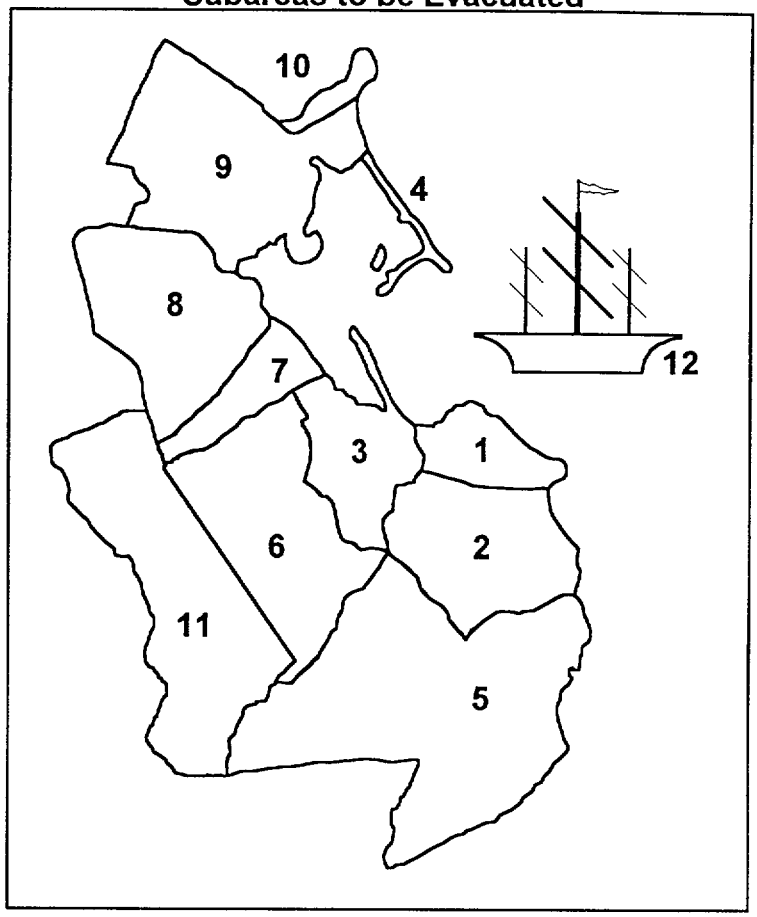
Release Duration: 5:55

Generalized Guidance

Evacuate/Shelter
1) 1 to 5 Rem Whole Body
2) 5 to 25 Rem Thyroid

Evacuate
1) >5 Rem Whole Body
2) >25 Rem Thyroid

Subareas to be Evacuated



Evac/Shelter of:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Evacuation of:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**

Group Release Rates (Ci/sec)

Noble Gases: 1.14E+01 Halogens: 3.82E-02 Particulates: 6.71E-03

Affected Subarea Dose Tables

	Affected Subareas	*(Dose in Rem)*	Whole Body	Thyroid
Ring 1 *(0-2 miles)*	**1, 12**	No Protection:	3.33E-02	1.88E-01
		Sheltered:	2.91E-02	1.56E-01
Ring 2 *(2-5 miles)*	**3**	No Protection:	2.55E-02	1.44E-01
		Sheltered:	2.23E-02	1.20E-01
Ring 3 *(5-10 miles)*	**6, 7, 8, 9**	No Protection:	1.19E-02	6.71E-02
		Sheltered:	1.04E-02	5.58E-02

Dose Assessment

Method: Monitored Release Time: 11:22 Date: 9/20/99

Release Path: <RCS>-<RB>-<SBGT>-<ENV> PRF: 0.004

Core Damage: 10% Gap Time After S/D (hours): 3:15

Release Height: Elevated Release Duration (hours): 5:55

Wind Direction (from): 115° Vent Flow Rate (SCFM): 24000

Monitor: Main Stack Low Range Reading (CPS): 5.00E+05

Distance (miles)	External (mR/hr)	External (Rem)	Inhalation (Rem)	Deposition (Rem)	Total Dose (Rem)	Thyroid (Rem)
S.B.	6.44E-06	2.20E-08	1.05E-08	4.48E-09	3.69E-08	2.14E-07
0.5	2.80E+00	9.57E-03	4.56E-03	1.95E-03	1.61E-02	9.32E-02
1.0	9.31E+00	3.18E-02	1.51E-02	6.48E-03	5.34E-02	3.09E-01
1.5	8.53E+00	2.91E-02	1.39E-02	5.93E-03	4.89E-02	2.83E-01
2.0	7.14E+00	2.44E-02	1.16E-02	4.97E-03	4.10E-02	2.37E-01
2.5	6.06E+00	2.07E-02	9.85E-03	4.22E-03	3.48E-02	2.02E-01
3.0	5.24E+00	1.79E-02	8.52E-03	3.65E-03	3.01E-02	1.74E-01
3.5	4.60E+00	1.57E-02	7.48E-03	3.20E-03	2.64E-02	1.53E-01
4.0	4.09E+00	1.40E-02	6.65E-03	2.85E-03	2.35E-02	1.36E-01
4.5	3.68E+00	1.26E-02	5.98E-03	2.56E-03	2.11E-02	1.22E-01
5.0	3.33E+00	1.14E-02	5.42E-03	2.32E-03	1.91E-02	1.11E-01
5.5	3.04E+00	1.04E-02	4.94E-03	2.12E-03	1.74E-02	1.01E-01
6.0	2.78E+00	9.50E-03	4.52E-03	1.94E-03	1.60E-02	9.25E-02
6.5	2.56E+00	8.73E-03	4.16E-03	1.78E-03	1.47E-02	8.50E-02
7.0	2.36E+00	8.04E-03	3.83E-03	1.64E-03	1.35E-02	7.83E-02
7.5	2.16E+00	7.38E-03	3.51E-03	1.51E-03	1.24E-02	7.19E-02
8.0	2.00E+00	6.82E-03	3.25E-03	1.39E-03	1.15E-02	6.64E-02
8.5	1.85E+00	6.31E-03	3.01E-03	1.29E-03	1.06E-02	6.15E-02
9.0	1.72E+00	5.86E-03	2.79E-03	1.20E-03	9.85E-03	5.71E-02
9.5	1.60E+00	5.46E-03	2.60E-03	1.11E-03	9.17E-03	5.32E-02
10.0	1.49E+00	5.09E-03	2.42E-03	1.04E-03	8.55E-03	4.96E-02

Whole Body PAGs	Thyroid PAGs

Dose Assessment

Protective Action Recommendations

Time: 11:22 Date: 9/20/99

Assessment Method:
Monitored Release

Conditions:
1) Off Season 3) Midday
2) Midweek 4) Good

Stability Class: D

Wind Direction (from): 115°

Wind Speed (mph): 8.0

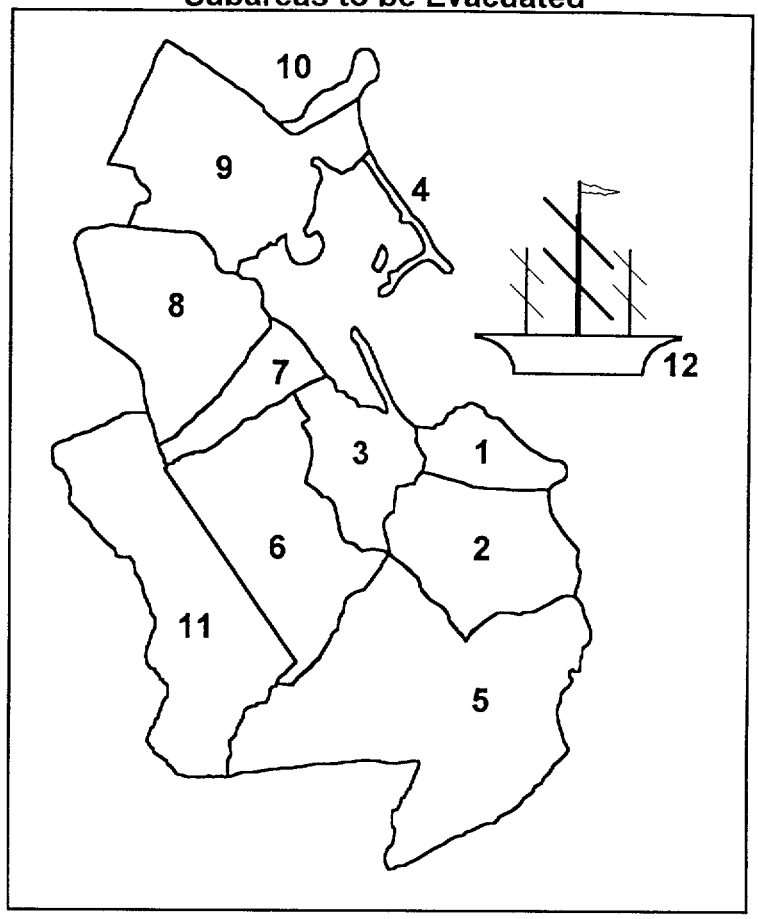
Release Duration: 5:55

Generalized Guidance

Evacuate/Shelter
1) 1 to 5 Rem Whole Body
2) 5 to 25 Rem Thyroid

Evacuate
1) >5 Rem Whole Body
2) >25 Rem Thyroid

Subareas to be Evacuated



Evac/Shelter of:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Evacuation of:	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**

Group Release Rates (Ci/sec)

Noble Gases: 1.65E+01 Halogens: 5.48E-02 Particulates: 9.50E-03

Affected Subarea Dose Tables

	Affected Subareas	*(Dose in Rem)*	Whole Body	Thyroid
Ring 1 *(0-2 miles)*	**1, 12**	No Protection:	5.34E-02	3.09E-01
		Sheltered:	4.66E-02	2.57E-01
Ring 2 *(2-5 miles)*	**3**	No Protection:	4.10E-02	2.37E-01
		Sheltered:	3.57E-02	1.97E-01
Ring 3 *(5-10 miles)*	**6, 7, 8, 9**	No Protection:	1.91E-02	1.11E-01
		Sheltered:	1.67E-02	9.21E-02

Reactor Coolant (µCi/ml)

	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45
Kr-85m	5.82E-06	5.73E+00	8.26E+00	1.05E+01	1.23E+01	1.16E+01	1.11E+01	1.00E+01	9.09E+00	8.21E+00	7.35E+00	6.98E+00
Kr-85	4.57E-07	4.55E-01	6.81E-01	8.99E-01	1.09E+00	1.07E+00	1.07E+00	1.00E+00	9.46E-01	8.88E-01	8.26E-01	8.16E-01
Kr-87	5.93E-06	5.64E+00	7.37E+00	8.49E+00	9.01E+00	7.71E+00	6.69E+00	5.50E+00	4.52E+00	3.70E+00	3.00E+00	2.59E+00
Kr-88	1.25E-05	1.22E+01	1.73E+01	2.14E+01	2.45E+01	2.26E+01	2.12E+01	1.87E+01	1.66E+01	1.47E+01	1.28E+01	1.19E+01
Xe-133	2.53E-04	2.52E+02	3.77E+02	4.97E+02	6.04E+02	5.91E+02	5.87E+02	5.52E+02	5.19E+02	4.87E+02	4.52E+02	4.46E+02
Xe-135	2.18E-05	2.16E+01	3.17E+01	4.11E+01	4.90E+01	4.72E+01	4.60E+01	4.25E+01	3.93E+01	3.62E+01	3.30E+01	3.20E+01
Total Noble Gas	3.00E-04	2.98E+02	4.42E+02	5.79E+02	7.00E+02	6.82E+02	6.73E+02	6.30E+02	5.90E+02	5.50E+02	5.09E+02	5.01E+02
I-131	1.68E-04	1.68E+02	2.51E+02	3.31E+02	4.02E+02	3.96E+02	3.91E+02	3.68E+02	3.47E+02	3.25E+02	3.02E+02	2.98E+02
I-132	2.14E-05	2.08E+01	2.89E+01	3.53E+01	3.99E+01	3.64E+01	3.34E+01	2.92E+01	2.55E+01	2.22E+01	1.92E+01	1.76E+01
I-133	1.15E-04	1.15E+02	1.70E+02	2.23E+02	2.69E+02	2.62E+02	2.57E+02	2.41E+02	2.25E+02	2.09E+02	1.93E+02	1.89E+02
I-134	2.61E-05	2.44E+01	3.00E+01	3.24E+01	3.24E+01	2.62E+01	2.13E+01	1.64E+01	1.27E+01	9.79E+00	7.48E+00	6.06E+00
I-135	6.13E-05	6.05E+01	8.83E+01	1.13E+02	1.35E+02	1.29E+02	1.24E+02	1.14E+02	1.05E+02	9.58E+01	8.69E+01	8.36E+01
Total Halogen	3.92E-04	3.88E+02	5.68E+02	7.35E+02	8.78E+02	8.50E+02	8.28E+02	7.69E+02	7.14E+02	6.62E+02	6.09E+02	5.94E+02
Cs-134	1.07E-05	1.06E+01	1.59E+01	2.10E+01	2.56E+01	2.52E+01	2.49E+01	2.35E+01	2.21E+01	2.08E+01	1.93E+01	1.91E+01
Cs-137	6.59E-06	6.56E+00	9.83E+00	1.30E+01	1.58E+01	1.56E+01	1.54E+01	1.45E+01	1.37E+01	1.28E+01	1.19E+01	1.18E+01
Cs-138	9.69E-05	8.67E+01	9.41E+01	8.99E+01	7.93E+01	5.65E+01	4.05E+01	2.76E+01	1.89E+01	1.28E+01	8.64E+00	6.18E+00
Total Particulate	1.14E-04	1.04E+02	1.20E+02	1.24E+02	1.21E+02	9.73E+01	8.08E+01	6.56E+01	5.46E+01	4.64E+01	3.99E+01	3.70E+01

Reactor Coolant (µCi/ml)

	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
Kr-85m	6.58E+00	5.78E+00	5.13E+00	4.77E+00	4.43E+00	4.26E+00	4.10E+00	3.94E+00	3.79E+00	3.65E+00	3.51E+00
Kr-85	7.99E-01	7.31E-01	6.73E-01	6.51E-01	6.28E-01	6.28E-01	6.28E-01	6.28E-01	6.28E-01	6.28E-01	6.28E-01
Kr-87	2.21E+00	1.76E+00	1.42E+00	1.20E+00	1.01E+00	8.78E-01	7.66E-01	6.68E-01	5.83E-01	5.09E-01	4.44E-01
Kr-88	1.10E+01	9.46E+00	8.20E+00	7.45E+00	6.77E+00	6.37E+00	5.99E+00	5.64E+00	5.30E+00	4.99E+00	4.69E+00
Xe-133	4.36E+02	3.98E+02	3.67E+02	3.54E+02	3.41E+02	3.40E+02	3.40E+02	3.39E+02	3.39E+02	3.39E+02	3.38E+02
Xe-135	3.08E+01	2.76E+01	2.50E+01	2.37E+01	2.24E+01	2.20E+01	2.16E+01	2.12E+01	2.08E+01	2.04E+01	2.00E+01
Total Noble Gas	4.88E+02	4.44E+02	4.07E+02	3.91E+02	3.76E+02	3.74E+02	3.73E+02	3.71E+02	3.70E+02	3.69E+02	3.67E+02
I-131	2.92E+02	2.66E+02	2.45E+02	2.37E+02	2.28E+02	2.28E+02	2.28E+02	2.28E+02	2.27E+02	2.27E+02	2.27E+02
I-132	1.59E+01	1.35E+01	1.16E+01	1.04E+01	9.27E+00	8.60E+00	7.97E+00	7.39E+00	6.86E+00	6.36E+00	5.90E+00
I-133	1.84E+02	1.66E+02	1.52E+02	1.46E+02	1.39E+02	1.38E+02	1.37E+02	1.36E+02	1.35E+02	1.34E+02	1.33E+02
I-134	4.87E+00	3.66E+00	2.77E+00	2.19E+00	1.74E+00	1.43E+00	1.17E+00	9.60E-01	7.88E-01	6.47E-01	5.31E-01
I-135	7.97E+01	7.10E+01	6.37E+01	6.00E+01	5.64E+01	5.49E+01	5.35E+01	5.21E+01	5.08E+01	4.95E+01	4.82E+01
Total Halogen	5.76E+02	5.21E+02	4.76E+02	4.55E+02	4.35E+02	4.31E+02	4.28E+02	4.24E+02	4.21E+02	4.18E+02	4.14E+02
Cs-134	1.87E+01	1.71E+01	1.57E+01	1.52E+01	1.47E+01	1.47E+01	1.47E+01	1.47E+01	1.47E+01	1.47E+01	1.47E+01
Cs-137	1.15E+01	1.05E+01	9.72E+00	9.39E+00	9.06E+00	9.06E+00	9.06E+00	9.06E+00	9.06E+00	9.06E+00	9.06E+00
Cs-138	4.38E+00	2.90E+00	1.94E+00	1.36E+00	9.47E-01	6.86E-01	4.97E-01	3.60E-01	2.61E-01	1.89E-01	1.37E-01
Total Particulate	3.46E+01	3.05E+01	2.74E+01	2.60E+01	2.47E+01	2.44E+01	2.42E+01	2.41E+01	2.40E+01	2.39E+01	2.39E+01

Torus Liquid (µCi/ml)

	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45
Kr-85m	0.00E+00	6.44E-04	1.21E-03	4.77E-03	1.52E-02	1.19E-02	1.35E-02	3.93E-02	5.38E-02	6.72E-02	8.04E-02	7.99E-02
Kr-85	0.00E+00	5.11E-05	1.00E-04	4.09E-04	1.36E-03	1.10E-03	1.30E-03	3.93E-03	5.60E-03	7.28E-03	9.05E-03	9.34E-03
Kr-87	0.00E+00	6.34E-04	1.09E-03	3.86E-03	1.12E-02	7.91E-03	8.14E-03	2.15E-02	2.68E-02	3.03E-02	3.29E-02	2.96E-02
Kr-88	0.00E+00	1.38E-03	2.54E-03	9.74E-03	3.04E-02	2.32E-02	2.57E-02	7.34E-02	9.84E-02	1.20E-01	1.41E-01	1.37E-01
Xe-133	0.00E+00	2.83E-02	5.55E-02	2.26E-01	7.49E-01	6.07E-01	7.14E-01	2.16E+00	3.08E+00	3.99E+00	4.95E+00	5.11E+00
Xe-135	0.00E+00	2.43E-03	4.67E-03	1.87E-02	6.08E-02	4.84E-02	5.60E-02	1.67E-01	2.33E-01	2.97E-01	3.62E-01	3.66E-01
Total Noble Gas	0.00E+00	3.35E-02	6.51E-02	2.64E-01	8.68E-01	7.00E-01	8.19E-01	2.47E+00	3.49E+00	4.51E+00	5.58E+00	5.73E+00
I-131	0.00E+00	3.77E-02	7.39E-02	3.01E-01	9.98E-01	1.34E+00	1.59E+00	2.88E+00	4.11E+00	5.33E+00	6.61E+00	6.82E+00
I-132	0.00E+00	4.67E-03	8.50E-03	3.22E-02	9.89E-02	1.24E-01	1.36E-01	2.29E-01	3.02E-01	3.64E-01	4.20E-01	4.02E-01
I-133	0.00E+00	2.57E-02	5.01E-02	2.03E-01	6.66E-01	8.91E-01	1.04E+00	1.88E+00	2.66E+00	3.43E+00	4.23E+00	4.33E+00
I-134	0.00E+00	5.48E-03	8.82E-03	2.95E-02	8.04E-02	8.89E-02	8.63E-02	1.29E-01	1.51E-01	1.60E-01	1.64E-01	1.39E-01
I-135	0.00E+00	1.36E-02	2.60E-02	1.03E-01	3.34E-01	4.38E-01	5.05E-01	8.94E-01	1.24E+00	1.57E+00	1.90E+00	1.91E+00
Total Halogen	0.00E+00	8.72E-02	1.67E-01	6.68E-01	2.18E+00	2.88E+00	3.36E+00	6.02E+00	8.46E+00	1.08E+01	1.33E+01	1.36E+01
Cs-134	0.00E+00	2.39E-03	4.69E-03	1.91E-02	6.34E-02	8.55E-02	1.01E-01	1.84E-01	2.62E-01	3.40E-01	4.23E-01	4.37E-01
Cs-137	0.00E+00	1.48E-03	2.89E-03	1.18E-02	3.92E-02	5.28E-02	6.24E-02	1.14E-01	1.62E-01	2.10E-01	2.61E-01	2.70E-01
Cs-138	0.00E+00	1.95E-02	2.77E-02	8.18E-02	1.97E-01	1.92E-01	1.64E-01	2.16E-01	2.23E-01	2.10E-01	1.89E-01	1.41E-01
Total Particulate	0.00E+00	2.34E-02	3.53E-02	1.13E-01	2.99E-01	3.30E-01	3.28E-01	5.14E-01	6.47E-01	7.60E-01	8.73E-01	8.48E-01

Torus Liquid (µCi/ml)

	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
Kr-85m	8.09E-02	8.56E-02	8.99E-02	8.65E-02	6.93E-02	6.67E-02	6.42E-02	6.17E-02	5.94E-02	5.71E-02	5.50E-02
Kr-85	9.83E-03	1.08E-02	1.18E-02	1.18E-02	9.83E-03	9.83E-03	9.83E-03	9.83E-03	9.83E-03	9.83E-03	9.83E-03
Kr-87	2.72E-02	2.61E-02	2.48E-02	2.17E-02	1.58E-02	1.37E-02	1.20E-02	1.05E-02	9.13E-03	7.97E-03	6.95E-03
Kr-88	1.35E-01	1.40E-01	1.44E-01	1.35E-01	1.06E-01	9.97E-02	9.38E-02	8.83E-02	8.30E-02	7.81E-02	7.35E-02
Xe-133	5.37E+00	5.90E+00	6.42E+00	6.41E+00	5.34E+00	5.33E+00	5.32E+00	5.32E+00	5.31E+00	5.30E+00	5.29E+00
Xe-135	3.79E-01	4.09E-01	4.37E-01	4.29E-01	3.51E-01	3.44E-01	3.38E-01	3.31E-01	3.25E-01	3.19E-01	3.13E-01
Total Noble Gas	6.00E+00	6.57E+00	7.13E+00	7.10E+00	5.89E+00	5.86E+00	5.84E+00	5.82E+00	5.80E+00	5.77E+00	5.75E+00
I-131	7.18E+00	7.89E+00	8.60E+00	8.59E+00	7.15E+00	7.14E+00	7.14E+00	7.13E+00	7.13E+00	7.12E+00	7.11E+00
I-132	3.92E-01	4.00E-01	4.05E-01	3.76E-01	2.90E-01	2.69E-01	2.50E-01	2.32E-01	2.15E-01	1.99E-01	1.85E-01
I-133	4.52E+00	4.93E+00	5.33E+00	5.29E+00	4.37E+00	4.33E+00	4.30E+00	4.26E+00	4.23E+00	4.19E+00	4.16E+00
I-134	1.20E-01	1.08E-01	9.69E-02	7.95E-02	5.44E-02	4.47E-02	3.66E-02	3.01E-02	2.47E-02	2.03E-02	1.66E-02
I-135	1.96E+00	2.10E+00	2.23E+00	2.18E+00	1.77E+00	1.72E+00	1.68E+00	1.63E+00	1.59E+00	1.55E+00	1.51E+00
Total Halogen	1.42E+01	1.54E+01	1.67E+01	1.65E+01	1.36E+01	1.35E+01	1.34E+01	1.33E+01	1.32E+01	1.31E+01	1.30E+01
Cs-134	4.60E-01	5.06E-01	5.52E-01	5.52E-01	4.60E-01	4.60E-01	4.60E-01	4.60E-01	4.60E-01	4.60E-01	4.60E-01
Cs-137	2.84E-01	3.12E-01	3.41E-01	3.41E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01	2.84E-01
Cs-138	1.08E-01	8.59E-02	6.79E-02	4.92E-02	2.97E-02	2.15E-02	1.56E-02	1.13E-02	8.16E-03	5.91E-03	4.28E-03
Total Particulate	8.51E-01	9.04E-01	9.60E-01	9.41E-01	7.73E-01	7.65E-01	7.59E-01	7.55E-01	7.52E-01	7.49E-01	7.48E-01

Torus Atmosphere (µCi/cc)

	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45
Kr-85m	0.00E+00	9.64E-04	1.82E-03	7.14E-03	2.28E-02	3.18E-02	3.36E-02	5.88E-02	8.06E-02	1.01E-01	1.20E-01	1.20E-01
Kr-85	0.00E+00	7.65E-05	1.50E-04	6.12E-04	2.03E-03	2.94E-03	3.24E-03	5.89E-03	8.39E-03	1.09E-02	1.35E-02	1.40E-02
Kr-87	0.00E+00	9.49E-04	1.62E-03	5.78E-03	1.67E-02	2.12E-02	2.03E-02	3.22E-02	4.00E-02	4.54E-02	4.92E-02	4.43E-02
Kr-88	0.00E+00	2.06E-03	3.80E-03	1.46E-02	4.55E-02	6.21E-02	6.42E-02	1.10E-01	1.47E-01	1.80E-01	2.10E-01	2.04E-01
Xe-133	0.00E+00	4.24E-02	8.31E-02	3.38E-01	1.12E+00	1.62E+00	1.78E+00	3.24E+00	4.60E+00	5.97E+00	7.41E+00	7.64E+00
Xe-135	0.00E+00	3.63E-03	6.99E-03	2.80E-02	9.10E-02	1.29E-01	1.40E-01	2.49E-01	3.48E-01	4.44E-01	5.41E-01	5.49E-01
Total Noble Gas	0.00E+00	5.01E-02	9.75E-02	3.94E-01	1.30E+00	1.87E+00	2.04E+00	3.69E+00	5.23E+00	6.75E+00	8.35E+00	8.57E+00
I-131	0.00E+00	1.69E-02	3.32E-02	1.35E-01	4.48E-01	6.05E-01	7.13E-01	1.29E+00	1.84E+00	2.39E+00	2.97E+00	3.06E+00
I-132	0.00E+00	2.10E-03	3.82E-03	1.44E-02	4.44E-02	5.57E-02	6.09E-02	1.03E-01	1.36E-01	1.63E-01	1.88E-01	1.80E-01
I-133	0.00E+00	1.16E-02	2.25E-02	9.10E-02	2.99E-01	4.01E-01	4.69E-01	8.46E-01	1.20E+00	1.54E+00	1.90E+00	1.94E+00
I-134	0.00E+00	2.46E-03	3.96E-03	1.33E-02	3.61E-02	4.01E-02	3.88E-02	5.78E-02	6.76E-02	7.21E-02	7.35E-02	6.23E-02
I-135	0.00E+00	6.11E-03	1.17E-02	4.64E-02	1.50E-01	1.97E-01	2.27E-01	4.02E-01	5.57E-01	7.05E-01	8.54E-01	8.59E-01
Total Halogen	0.00E+00	3.92E-02	7.51E-02	3.00E-01	9.78E-01	1.30E+00	1.51E+00	2.70E+00	3.80E+00	4.87E+00	5.98E+00	6.11E+00
Cs-134	0.00E+00	1.07E-03	2.11E-03	8.59E-03	2.85E-02	3.85E-02	4.54E-02	8.26E-02	1.18E-01	1.53E-01	1.90E-01	1.96E-01
Cs-137	0.00E+00	6.63E-04	1.30E-03	5.30E-03	1.76E-02	2.38E-02	2.80E-02	5.10E-02	7.26E-02	9.43E-02	1.17E-01	1.21E-01
Cs-138	0.00E+00	8.76E-03	1.24E-02	3.67E-02	8.83E-02	8.65E-02	7.38E-02	9.72E-02	1.00E-01	9.43E-02	8.49E-02	6.35E-02
Total Particulate	0.00E+00	1.05E-02	1.58E-02	5.06E-02	1.34E-01	1.49E-01	1.47E-01	2.31E-01	2.91E-01	3.41E-01	3.92E-01	3.81E-01

Torus Atmosphere (µCi/cc)

	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
Kr-85m	1.21E-01	1.28E-01	1.35E-01	1.29E-01	1.04E-01	9.98E-02	9.60E-02	9.24E-02	8.89E-02	8.55E-02	8.23E-02
Kr-85	1.47E-02	1.62E-02	1.77E-02	1.77E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02	1.47E-02
Kr-87	4.07E-02	3.91E-02	3.72E-02	3.24E-02	2.36E-02	2.06E-02	1.80E-02	1.57E-02	1.37E-02	1.19E-02	1.04E-02
Kr-88	2.02E-01	2.10E-01	2.15E-01	2.02E-01	1.59E-01	1.49E-01	1.40E-01	1.32E-01	1.24E-01	1.17E-01	1.10E-01
Xe-133	8.03E+00	8.83E+00	9.61E+00	9.60E+00	7.99E+00	7.98E+00	7.97E+00	7.96E+00	7.95E+00	7.94E+00	7.92E+00
Xe-135	5.67E-01	6.11E-01	6.54E-01	6.42E-01	5.25E-01	5.15E-01	5.05E-01	4.96E-01	4.87E-01	4.77E-01	4.68E-01
Total Noble Gas	8.98E+00	9.83E+00	1.07E+01	1.06E+01	8.82E+00	8.78E+00	8.74E+00	8.71E+00	8.67E+00	8.64E+00	8.61E+00
I-131	3.22E+00	3.54E+00	3.86E+00	3.86E+00	3.53E+00	3.53E+00	3.53E+00	3.52E+00	3.52E+00	3.52E+00	3.51E+00
I-132	1.76E-01	1.80E-01	1.82E-01	1.69E-01	1.43E-01	1.33E-01	1.23E-01	1.14E-01	1.06E-01	9.84E-02	9.13E-02
I-133	2.03E+00	2.21E+00	2.39E+00	2.37E+00	2.16E+00	2.14E+00	2.12E+00	2.10E+00	2.09E+00	2.07E+00	2.05E+00
I-134	5.38E-02	4.86E-02	4.35E-02	3.57E-02	2.69E-02	2.21E-02	1.81E-02	1.49E-02	1.22E-02	1.00E-02	8.21E-03
I-135	8.81E-01	9.44E-01	1.00E+00	9.77E-01	8.72E-01	8.50E-01	8.28E-01	8.06E-01	7.85E-01	7.65E-01	7.45E-01
Total Halogen	6.36E+00	6.93E+00	7.48E+00	7.41E+00	6.73E+00	6.67E+00	6.62E+00	6.56E+00	6.51E+00	6.46E+00	6.41E+00
Cs-134	2.06E-01	2.27E-01	2.48E-01	2.48E-01	2.27E-01	2.27E-01	2.27E-01	2.27E-01	2.27E-01	2.27E-01	2.27E-01
Cs-137	1.27E-01	1.40E-01	1.53E-01	1.53E-01	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.40E-01	1.40E-01
Cs-138	4.84E-02	3.86E-02	3.05E-02	2.21E-02	1.47E-02	1.06E-02	7.69E-03	5.57E-03	4.03E-03	2.92E-03	2.11E-03
Total Particulate	3.82E-01	4.06E-01	4.31E-01	4.23E-01	3.82E-01	3.78E-01	3.75E-01	3.73E-01	3.71E-01	3.70E-01	3.69E-01

Drywell Atmosphere (µCi/cc)

	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45
Kr-85m	0.00E+00	7.37E-04	1.39E-03	5.45E-03	1.74E-02	2.43E-02	2.57E-02	4.49E-02	6.16E-02	7.69E-02	9.20E-02	9.14E-02
Kr-85	0.00E+00	5.85E-05	1.15E-04	4.68E-04	1.55E-03	2.25E-03	2.47E-03	4.50E-03	6.41E-03	8.32E-03	1.03E-02	1.07E-02
Kr-87	0.00E+00	7.26E-04	1.24E-03	4.42E-03	1.28E-02	1.62E-02	1.55E-02	2.46E-02	3.06E-02	3.47E-02	3.76E-02	3.39E-02
Kr-88	0.00E+00	1.57E-03	2.91E-03	1.11E-02	3.48E-02	4.74E-02	4.91E-02	8.40E-02	1.13E-01	1.38E-01	1.61E-01	1.56E-01
Xe-133	0.00E+00	3.24E-02	6.35E-02	2.59E-01	8.57E-01	1.24E+00	1.36E+00	2.47E+00	3.52E+00	4.56E+00	5.67E+00	5.84E+00
Xe-135	0.00E+00	2.78E-03	5.34E-03	2.14E-02	6.96E-02	9.90E-02	1.07E-01	1.91E-01	2.66E-01	3.39E-01	4.14E-01	4.19E-01
Total Noble Gas	0.00E+00	3.83E-02	7.45E-02	3.02E-01	9.93E-01	1.43E+00	1.56E+00	2.82E+00	4.00E+00	5.16E+00	6.38E+00	6.55E+00
I-131	0.00E+00	1.08E-02	2.11E-02	8.61E-02	2.85E-01	2.31E-01	2.72E-01	8.25E-01	1.17E+00	1.52E+00	1.89E+00	1.95E+00
I-132	0.00E+00	1.34E-03	2.43E-03	9.20E-03	2.83E-02	2.13E-02	2.33E-02	6.54E-02	8.65E-02	1.04E-01	1.20E-01	1.15E-01
I-133	0.00E+00	7.36E-03	1.43E-02	5.79E-02	1.91E-01	1.53E-01	1.79E-01	5.39E-01	7.61E-01	9.80E-01	1.21E+00	1.24E+00
I-134	0.00E+00	1.57E-03	2.52E-03	8.44E-03	2.30E-02	1.53E-02	1.48E-02	3.68E-02	4.31E-02	4.59E-02	4.68E-02	3.97E-02
I-135	0.00E+00	3.89E-03	7.44E-03	2.95E-02	9.55E-02	7.55E-02	8.67E-02	2.56E-01	3.55E-01	4.49E-01	5.44E-01	5.47E-01
Total Halogen	0.00E+00	2.49E-02	4.78E-02	1.91E-01	6.23E-01	4.97E-01	5.77E-01	1.72E+00	2.42E+00	3.10E+00	3.81E+00	3.89E+00
Cs-134	0.00E+00	6.84E-04	1.34E-03	5.47E-03	1.81E-02	1.47E-02	1.74E-02	5.26E-02	7.50E-02	9.73E-02	1.21E-01	1.25E-01
Cs-137	0.00E+00	4.22E-04	8.28E-04	3.38E-03	1.12E-02	9.09E-03	1.07E-02	3.25E-02	4.63E-02	6.01E-02	7.47E-02	7.71E-02
Cs-138	0.00E+00	5.58E-03	7.92E-03	2.34E-02	5.62E-02	3.31E-02	2.82E-02	6.19E-02	6.39E-02	6.01E-02	5.41E-02	4.05E-02
Total Particulate	0.00E+00	6.68E-03	1.01E-02	3.23E-02	8.56E-02	5.69E-02	5.63E-02	1.47E-01	1.85E-01	2.17E-01	2.50E-01	2.43E-01

Drywell Atmosphere (µCi/cc)

	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
Kr-85m	9.26E-02	9.80E-02	1.03E-01	9.89E-02	7.93E-02	7.63E-02	7.34E-02	7.06E-02	6.79E-02	6.54E-02	6.29E-02
Kr-85	1.12E-02	1.24E-02	1.35E-02	1.35E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02
Kr-87	3.11E-02	2.99E-02	2.84E-02	2.48E-02	1.80E-02	1.57E-02	1.37E-02	1.20E-02	1.04E-02	9.12E-03	7.95E-03
Kr-88	1.55E-01	1.60E-01	1.64E-01	1.55E-01	1.21E-01	1.14E-01	1.07E-01	1.01E-01	9.50E-02	8.94E-02	8.41E-02
Xe-133	6.14E+00	6.75E+00	7.35E+00	7.34E+00	6.11E+00	6.10E+00	6.09E+00	6.08E+00	6.07E+00	6.07E+00	6.06E+00
Xe-135	4.33E-01	4.67E-01	5.00E-01	4.91E-01	4.01E-01	3.94E-01	3.86E-01	3.79E-01	3.72E-01	3.65E-01	3.58E-01
Total Noble Gas	6.86E+00	7.51E+00	8.16E+00	8.12E+00	6.74E+00	6.71E+00	6.68E+00	6.66E+00	6.63E+00	6.61E+00	6.58E+00
I-131	2.05E+00	2.26E+00	2.46E+00	2.46E+00	2.05E+00	2.04E+00	2.04E+00	2.04E+00	2.04E+00	2.04E+00	2.03E+00
I-132	1.12E-01	1.15E-01	1.16E-01	1.07E-01	8.30E-02	7.70E-02	7.14E-02	6.62E-02	6.14E-02	5.70E-02	5.28E-02
I-133	1.29E+00	1.41E+00	1.52E+00	1.51E+00	1.25E+00	1.24E+00	1.23E+00	1.22E+00	1.21E+00	1.20E+00	1.19E+00
I-134	3.43E-02	3.10E-02	2.77E-02	2.28E-02	1.56E-02	1.28E-02	1.05E-02	8.60E-03	7.06E-03	5.80E-03	4.76E-03
I-135	5.61E-01	6.01E-01	6.39E-01	6.22E-01	5.05E-01	4.92E-01	4.79E-01	4.67E-01	4.55E-01	4.43E-01	4.32E-01
Total Halogen	4.05E+00	4.41E+00	4.77E+00	4.72E+00	3.90E+00	3.87E+00	3.83E+00	3.80E+00	3.77E+00	3.74E+00	3.71E+00
Cs-134	1.31E-01	1.45E-01	1.58E-01	1.58E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01	1.31E-01
Cs-137	8.12E-02	8.93E-02	9.74E-02	9.74E-02	8.12E-02	8.12E-02	8.12E-02	8.12E-02	8.12E-02	8.12E-02	8.12E-02
Cs-138	3.08E-02	2.46E-02	1.94E-02	1.41E-02	8.49E-03	6.15E-03	4.45E-03	3.22E-03	2.33E-03	1.69E-03	1.22E-03
Total Particulate	2.44E-01	2.59E-01	2.75E-01	2.69E-01	2.21E-01	2.19E-01	2.17E-01	2.16E-01	2.15E-01	2.14E-01	2.14E-01

PASS Radiation Readings (mR/hr)

Volume (ml or cc)	Distance (inches)	Shielding (inches Pb)	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15
Reactor Coolant												
10.0	1	0	2.06E-03	3.99E+03	5.59E+03	6.97E+03	8.11E+03	7.69E+03	7.38E+03	6.78E+03	6.25E+03	5.75E+03
	12	0	1.43E-05	2.77E+01	3.88E+01	4.84E+01	5.63E+01	5.34E+01	5.12E+01	4.71E+01	4.34E+01	4.00E+01
	1	2	2.06E-04	3.99E+02	5.59E+02	6.97E+02	8.11E+02	7.69E+02	7.38E+02	6.78E+02	6.25E+02	5.75E+02
	12	2	1.43E-06	2.77E+00	3.88E+00	4.84E+00	5.63E+00	5.34E+00	5.12E+00	4.71E+00	4.34E+00	4.00E+00
	1	4	2.06E-05	3.99E+01	5.59E+01	6.97E+01	8.11E+01	7.69E+01	7.38E+01	6.78E+01	6.25E+01	5.75E+01
	12	4	1.43E-07	2.77E-01	3.88E-01	4.84E-01	5.63E-01	5.34E-01	5.12E-01	4.71E-01	4.34E-01	4.00E-01
Gas From Rx Coolant												
14.0	1	0	2.39E-03	4.74E+03	7.04E+03	9.22E+03	1.11E+04	1.08E+04	1.07E+04	1.00E+04	9.39E+03	8.76E+03
	12	0	1.66E-05	3.29E+01	4.89E+01	6.40E+01	7.74E+01	7.53E+01	7.44E+01	6.96E+01	6.52E+01	6.09E+01
	1	2	2.39E-04	4.74E+02	7.04E+02	9.22E+02	1.11E+03	1.08E+03	1.07E+03	1.00E+03	9.39E+02	8.76E+02
	12	2	1.66E-06	3.29E+00	4.89E+00	6.40E+00	7.74E+00	7.53E+00	7.44E+00	6.96E+00	6.52E+00	6.09E+00
	1	4	2.39E-05	4.74E+01	7.04E+01	9.22E+01	1.11E+02	1.08E+02	1.07E+02	1.00E+02	9.39E+01	8.76E+01
	12	4	1.66E-07	3.29E-01	4.89E-01	6.40E-01	7.74E-01	7.53E-01	7.44E-01	6.96E-01	6.52E-01	6.09E-01
Torus Liquid												
10.0	1	0	0.00E+00	4.49E-01	8.22E-01	3.17E+00	1.01E+01	1.31E+01	1.50E+01	2.65E+01	3.70E+01	4.71E+01
	12	0	0.00E+00	3.12E-03	5.71E-03	2.20E-02	6.98E-02	9.07E-02	1.04E-01	1.84E-01	2.57E-01	3.27E-01
	1	2	0.00E+00	4.49E-02	8.22E-02	3.17E-01	1.01E+00	1.31E+00	1.50E+00	2.65E+00	3.70E+00	4.71E+00
	12	2	0.00E+00	3.12E-04	5.71E-04	2.20E-03	6.98E-03	9.07E-03	1.04E-02	1.84E-02	2.57E-02	3.27E-02
	1	4	0.00E+00	4.49E-03	8.22E-03	3.17E-02	1.01E-01	1.31E-01	1.50E-01	2.65E-01	3.70E-01	4.71E-01
	12	4	0.00E+00	3.12E-05	5.71E-05	2.20E-04	6.98E-04	9.07E-04	1.04E-03	1.84E-03	2.57E-03	3.27E-03
Torus Atmosphere												
14.0	1	0	0.00E+00	3.99E-01	7.76E-01	3.14E+00	1.03E+01	1.49E+01	1.63E+01	2.94E+01	4.16E+01	5.37E+01
	12	0	0.00E+00	2.77E-03	5.39E-03	2.18E-02	7.18E-02	1.03E-01	1.13E-01	2.04E-01	2.89E-01	3.73E-01
	1	2	0.00E+00	3.99E-02	7.76E-02	3.14E-01	1.03E+00	1.49E+00	1.63E+00	2.94E+00	4.16E+00	5.37E+00
	12	2	0.00E+00	2.77E-04	5.39E-04	2.18E-03	7.18E-03	1.03E-02	1.13E-02	2.04E-02	2.89E-02	3.73E-02
	1	4	0.00E+00	3.99E-03	7.76E-03	3.14E-02	1.03E-01	1.49E-01	1.63E-01	2.94E-01	4.16E-01	5.37E-01
	12	4	0.00E+00	2.77E-05	5.39E-05	2.18E-04	7.18E-04	1.03E-03	1.13E-03	2.04E-03	2.89E-03	3.73E-03
Containment Atmosphere												
14.0	1	0	0.00E+00	3.05E-01	5.93E-01	2.40E+00	7.90E+00	1.14E+01	1.24E+01	2.25E+01	3.18E+01	4.11E+01
	12	0	0.00E+00	2.12E-03	4.12E-03	1.67E-02	5.49E-02	7.90E-02	8.63E-02	1.56E-01	2.21E-01	2.85E-01
	1	2	0.00E+00	3.05E-02	5.93E-02	2.40E-01	7.90E-01	1.14E+00	1.24E+00	2.25E+00	3.18E+00	4.11E+00
	12	2	0.00E+00	2.12E-04	4.12E-04	1.67E-03	5.49E-03	7.90E-03	8.63E-03	1.56E-02	2.21E-02	2.85E-02
	1	4	0.00E+00	3.05E-03	5.93E-03	2.40E-02	7.90E-02	1.14E-01	1.24E-01	2.25E-01	3.18E-01	4.11E-01
	12	4	0.00E+00	2.12E-05	4.12E-05	1.67E-04	5.49E-04	7.90E-04	8.63E-04	1.56E-03	2.21E-03	2.85E-03

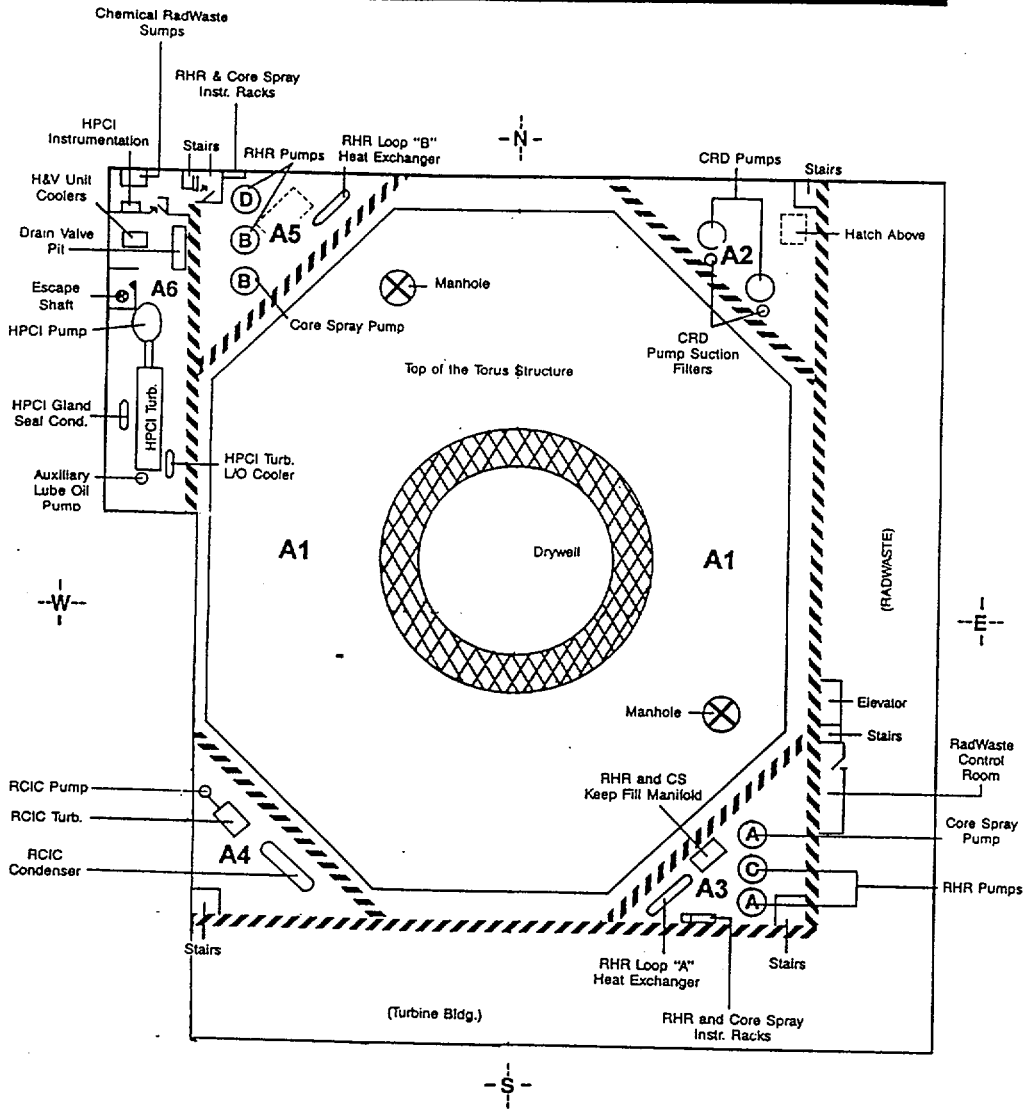
PASS Radiation Readings (mR/hr)

Volume (ml or cc)	Distance (inches)	Shielding (inches Pb)	02:30	02:45	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45
Reactor Coolant												
10.0	1	0	5.27E+03	5.13E+03	4.96E+03	4.48E+03	4.08E+03	3.91E+03	3.73E+03	3.70E+03	3.67E+03	3.64E+03
	12	0	3.66E+01	3.56E+01	3.44E+01	3.11E+01	2.84E+01	2.71E+01	2.59E+01	2.57E+01	2.55E+01	2.53E+01
	1	2	5.27E+02	5.13E+02	4.96E+02	4.48E+02	4.08E+02	3.91E+02	3.73E+02	3.70E+02	3.67E+02	3.64E+02
	12	2	3.66E+00	3.56E+00	3.44E+00	3.11E+00	2.84E+00	2.71E+00	2.59E+00	2.57E+00	2.55E+00	2.53E+00
	1	4	5.27E+01	5.13E+01	4.96E+01	4.48E+01	4.08E+01	3.91E+01	3.73E+01	3.70E+01	3.67E+01	3.64E+01
	12	4	3.66E-01	3.56E-01	3.44E-01	3.11E-01	2.84E-01	2.71E-01	2.59E-01	2.57E-01	2.55E-01	2.53E-01
Gas From Rx Coolant												
14.0	1	0	8.11E+03	7.97E+03	7.76E+03	7.06E+03	6.48E+03	6.23E+03	5.99E+03	5.96E+03	5.94E+03	5.91E+03
	12	0	5.63E+01	5.53E+01	5.39E+01	4.90E+01	4.50E+01	4.33E+01	4.16E+01	4.14E+01	4.12E+01	4.11E+01
	1	2	8.11E+02	7.97E+02	7.76E+02	7.06E+02	6.48E+02	6.23E+02	5.99E+02	5.96E+02	5.94E+02	5.91E+02
	12	2	5.63E+00	5.53E+00	5.39E+00	4.90E+00	4.50E+00	4.33E+00	4.16E+00	4.14E+00	4.12E+00	4.11E+00
	1	4	8.11E+01	7.97E+01	7.76E+01	7.06E+01	6.48E+01	6.23E+01	5.99E+01	5.96E+01	5.94E+01	5.91E+01
	12	4	5.63E-01	5.53E-01	5.39E-01	4.90E-01	4.50E-01	4.33E-01	4.16E-01	4.14E-01	4.12E-01	4.11E-01
Torus Liquid												
10.0	1	0	5.77E+01	5.87E+01	6.10E+01	6.63E+01	7.16E+01	7.09E+01	5.85E+01	5.80E+01	5.75E+01	5.70E+01
	12	0	4.00E-01	4.08E-01	4.24E-01	4.60E-01	4.97E-01	4.92E-01	4.06E-01	4.03E-01	3.99E-01	3.96E-01
	1	2	5.77E+00	5.87E+00	6.10E+00	6.63E+00	7.16E+00	7.09E+00	5.85E+00	5.80E+00	5.75E+00	5.70E+00
	12	2	4.00E-02	4.08E-02	4.24E-02	4.60E-02	4.97E-02	4.92E-02	4.06E-02	4.03E-02	3.99E-02	3.96E-02
	1	4	5.77E-01	5.87E-01	6.10E-01	6.63E-01	7.16E-01	7.09E-01	5.85E-01	5.80E-01	5.75E-01	5.70E-01
	12	4	4.00E-03	4.08E-03	4.24E-03	4.60E-03	4.97E-03	4.92E-03	4.06E-03	4.03E-03	3.99E-03	3.96E-03
Torus Atmosphere												
14.0	1	0	6.64E+01	6.82E+01	7.15E+01	7.82E+01	8.50E+01	8.46E+01	7.02E+01	6.99E+01	6.96E+01	6.93E+01
	12	0	4.61E-01	4.74E-01	4.96E-01	5.43E-01	5.90E-01	5.87E-01	4.87E-01	4.85E-01	4.83E-01	4.81E-01
	1	2	6.64E+00	6.82E+00	7.15E+00	7.82E+00	8.50E+00	8.46E+00	7.02E+00	6.99E+00	6.96E+00	6.93E+00
	12	2	4.61E-02	4.74E-02	4.96E-02	5.43E-02	5.90E-02	5.87E-02	4.87E-02	4.85E-02	4.83E-02	4.81E-02
	1	4	6.64E-01	6.82E-01	7.15E-01	7.82E-01	8.50E-01	8.46E-01	7.02E-01	6.99E-01	6.96E-01	6.93E-01
	12	4	4.61E-03	4.74E-03	4.96E-03	5.43E-03	5.90E-03	5.87E-03	4.87E-03	4.85E-03	4.83E-03	4.81E-03
Containment Atmosphere												
14.0	1	0	5.08E+01	5.22E+01	5.46E+01	5.98E+01	6.49E+01	6.46E+01	5.36E+01	5.34E+01	5.32E+01	5.30E+01
	12	0	3.53E-01	3.62E-01	3.79E-01	4.15E-01	4.51E-01	4.49E-01	3.72E-01	3.71E-01	3.69E-01	3.68E-01
	1	2	5.08E+00	5.22E+00	5.46E+00	5.98E+00	6.49E+00	6.46E+00	5.36E+00	5.34E+00	5.32E+00	5.30E+00
	12	2	3.53E-02	3.62E-02	3.79E-02	4.15E-02	4.51E-02	4.49E-02	3.72E-02	3.71E-02	3.69E-02	3.68E-02
	1	4	5.08E-01	5.22E-01	5.46E-01	5.98E-01	6.49E-01	6.46E-01	5.36E-01	5.34E-01	5.32E-01	5.30E-01
	12	4	3.53E-03	3.62E-03	3.79E-03	4.15E-03	4.51E-03	4.49E-03	3.72E-03	3.71E-03	3.69E-03	3.68E-03

PASS Radiation Readings (mR/hr)

Volume (ml or cc)	Distance (inches)	Shielding (inches Pb)	05:00	05:15	05:30
Reactor Coolant					
10.0	1	0	3.61E+03	3.59E+03	3.56E+03
	12	0	2.51E+01	2.49E+01	2.47E+01
	1	2	3.61E+02	3.59E+02	3.56E+02
	12	2	2.51E+00	2.49E+00	2.47E+00
	1	4	3.61E+01	3.59E+01	3.56E+01
	12	4	2.51E-01	2.49E-01	2.47E-01
Gas From Rx Coolant					
14.0	1	0	5.89E+03	5.87E+03	5.85E+03
	12	0	4.09E+01	4.08E+01	4.06E+01
	1	2	5.89E+02	5.87E+02	5.85E+02
	12	2	4.09E+00	4.08E+00	4.06E+00
	1	4	5.89E+01	5.87E+01	5.85E+01
	12	4	4.09E-01	4.08E-01	4.06E-01
Torus Liquid					
10.0	1	0	5.66E+01	5.62E+01	5.57E+01
	12	0	3.93E-01	3.90E-01	3.87E-01
	1	2	5.66E+00	5.62E+00	5.57E+00
	12	2	3.93E-02	3.90E-02	3.87E-02
	1	4	5.66E-01	5.62E-01	5.57E-01
	12	4	3.93E-03	3.90E-03	3.87E-03
Torus Atmosphere					
14.0	1	0	6.90E+01	6.88E+01	6.85E+01
	12	0	4.79E-01	4.78E-01	4.76E-01
	1	2	6.90E+00	6.88E+00	6.85E+00
	12	2	4.79E-02	4.78E-02	4.76E-02
	1	4	6.90E-01	6.88E-01	6.85E-01
	12	4	4.79E-03	4.78E-03	4.76E-03
Containment Atmosphere					
14.0	1	0	5.28E+01	5.26E+01	5.24E+01
	12	0	3.67E-01	3.65E-01	3.64E-01
	1	2	5.28E+00	5.26E+00	5.24E+00
	12	2	3.67E-02	3.65E-02	3.64E-02
	1	4	5.28E-01	5.26E-01	5.24E-01
	12	4	3.67E-03	3.65E-03	3.64E-03

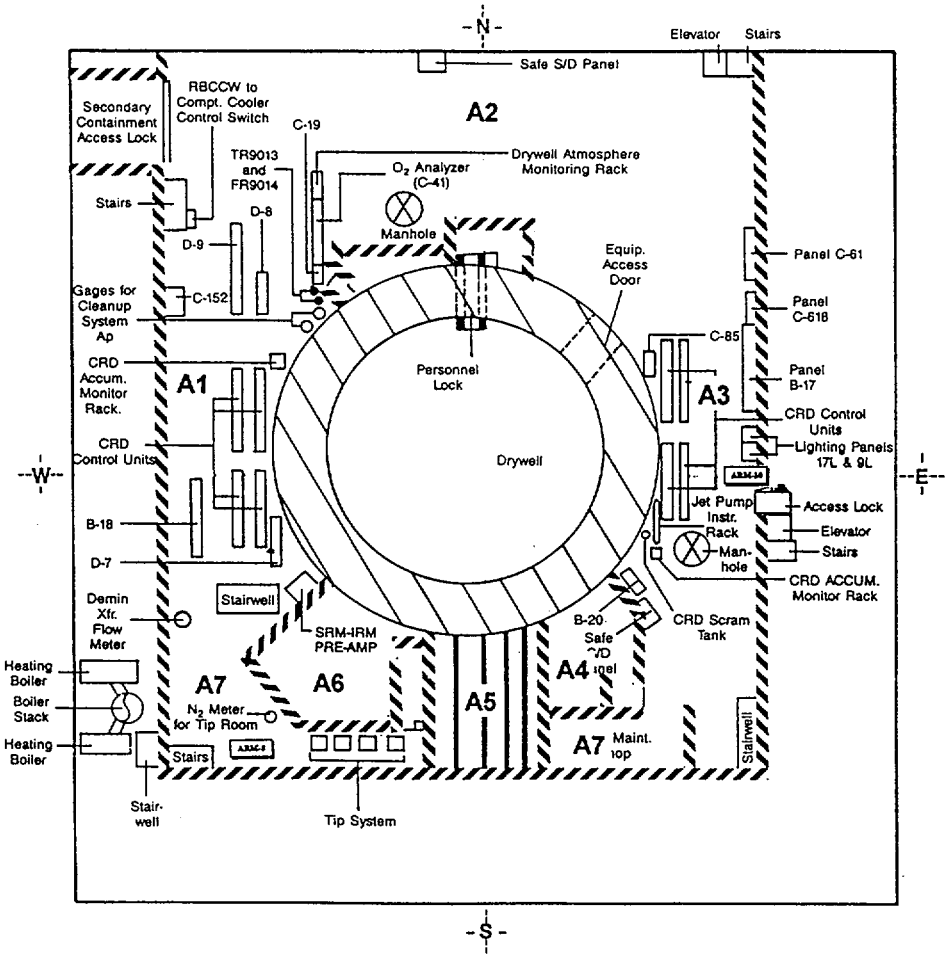
Reactor Building — Level: -17'6"



Scenario Time	Radiation Levels (mr/hr) A1	A2	A3	A4	A5	A6
00:00	50	10	15	1	30	20
00:15	600	10	15	1	30	20
00:30	1200	10	120	1	170	20
00:45	2400	10	125	1	175	20
01:00	9000	10	130	1	180	20
01:15	12000	10	140	5	190	20
01:30	13500	10	140	15	190	20
01:45	18000	10	140	20	190	20
02:00	27000	10	140	30	190	20
02:15	30000	10	140	40	190	20
02:30	39000	10	140	50	190	20
02:45	45000	10	140	50	190	20
03:00	51000	10	140	50	190	20
03:15	54000	10	140	50	500	4000
03:30	54000	10	140	50	1500	12000
03:45	54000	10	140	50	2000	15000
04:00	54000	10	140	50	2700	20000
04:15	54000	10	140	50	2500	18500
04:30	54000	10	140	50	2400	18000
04:45	54000	10	140	50	2300	17500
05:00	54000	10	140	50	2200	16800
05:15	54000	10	140	50	1900	16200
05:30	54000	10	140	50	1800	15800

Notes:

Zone Readings are average dose rates throughout the RHR, RCIC and HPCI corner rooms.
RHR B corner room will fill up with steam after HPCI steam leak (scenario time 03:10)
General Area contamination levels will increase to 15K dpm/100 cm2 and all surfaces will be damp/wet after HPCI steam leak (scenario time 03:10)
Airborne Activity levels provided on Reactor Building Air Activity Data Table.



Scenario Time	Radiation Levels (mr/hr) A1	A2	A3	A4	A5	A6	A7	ARM Readings (mR/hr) RB SE Access ARM-10	RB Tip Rm ARM-8
00:00	5	2	5	10	2000	40	2	4	0.08
00:15	25	2	25	10	1400	40	4	40	8.00
00:30	25	2	25	10	10000	40	4	40	8.00
00:45	25	2	25	10	15000	40	4	40	8.00
01:00	25	2	25	10	12000	40	4	40	8.00
01:15	25	2	25	10	75	40	4	40	8.00
01:30	25	2	25	10	10	40	4	40	8.00
01:45	25	2	25	10	10	40	4	40	8.00
02:00	25	2	25	10	10	40	4	40	8.00
02:15	25	2	25	10	10	40	4	40	8.00
02:30	25	2	25	10	10	40	4	40	8.00
02:45	25	2	25	10	10	40	4	40	8.00
03:00	25	2	25	10	10	40	4	40	8.00
03:15	240	300	120	48	10	42	120	OSH(>1E2)	OSH(>1E2)
03:30	320	400	160	64	10	48	160	OSH	OSH
03:45	480	600	240	96	10	72	240	OSH	OSH
04:00	720	900	360	144	10	108	360	OSH	OSH
04:15	680	850	340	136	10	102	340	OSH	OSH
04:30	640	800	320	128	10	96	320	OSH	OSH
04:45	624	780	312	125	10	94	312	OSH	OSH
05:00	600	750	300	120	10	90	300	OSH	OSH
05:15	560	700	280	112	10	84	280	OSH	OSH
05:30	544	680	272	109	10	82	272	OSH	OSH

Notes:

Zone Readings are average dose rates throughout the zone area.
General Area contamination levels will increase to 10K dpm/100 cm2 and all surfaces will be damp/wet after HPCI steam leak (scenario time 03:10)
Airborne Activity levels provided on Reactor Building Air Activity Data Table.

REACTOR BUILDING AIR ACTIVITY DATA - See Notes Below

A. Reactor Building Air Concentrations in uCi/cc

Elevation -17'6" in Zone A5

Isotope	Prior to 03:10	03:10 - 03:30	03:30 - 04:30	04:30 to END
I-131	As Found	1.14E-04	2.28E-04	1.82E-04
I-132	As Found	6.25E-06	1.25E-05	1.00E-05
I-133	As Found	7.17E-05	1.43E-04	1.15E-04
I-134	As Found	1.90E-06	3.79E-06	3.03E-06
I-135	As Found	3.13E-05	6.25E-05	5.00E-05
Total Iodine		2.3E-04	4.5E-04	3.6E-04
Kr-85m	As Found	1.8E-05	3.6E-05	2.9E-05
Kr-85	As Found	2.2E-06	4.3E-06	3.5E-06
Kr-87	As Found	6.0E-06	1.2E-05	9.6E-06
Kr-88	As Found	3.0E-05	5.9E-05	4.8E-05
Xe-133	As Found	1.2E-03	2.4E-03	1.9E-03
Xe-135	As Found	8.4E-05	1.7E-04	1.3E-04
Total Noble Gas		1.3E-03	2.6E-03	2.1E-03

B. Reactor Building Air Concentrations in DAC-hr

Elevation -17'6" in Zone A5

Scenario Time	Iodine	Noble Gas
Prior to 03:10	Not Applicable	Not Applicable
03:10 - 03:30	6.5E+03	3.7E+01
03:30 - 04:30	1.3E+04	7.4E+01
04:30 to END	1.0E+04	5.9E+01

C. Reactor Building Air Concentrations in equivalent inhalation dose rate (mrem/hr)

Elevation -17'6" in Zone A5

Scenario Time	Iodine	Noble Gas
Prior to 03:10	Not Applicable	Not Applicable
03:10 - 03:30	1.6E+04	9.3E+01
03:30 - 04:30	3.2E+04	1.9E+02
04:30 to END	2.6E+04	1.5E+02

D. Reactor Building Air Sample Dose Rates (Iodine Cartridge Only)

Elevation -17'6" in Zone A5

	Unshielded (mR/hr per cc)*		Shielded (1 in. lead in mR/hr per cc)*	
Scenario Time	Contact	1 ft	Contact	1 ft
Prior to 03:10	As Read	As Read	As Read	As Read
03:10 - 03:30	1.8E-04	1.2E-06	2.2E-06	1.5E-08
03:30 - 04:30	3.5E-04	2.4E-06	4.4E-06	3.0E-08
04:30 to END	2.8E-04	1.9E-06	3.5E-06	2.4E-08

* Values must be multiplied by the sample volume in cubic centimeters to obtain the sample dose rate in mR/hr.

Notes:

1. **Reactor Building Elevation Level 23 -Divide values by a factor of 50**
2. **All other Reactor Building Elevation Levels - As Found**

Plume Phase Environmental Information

Release Segment Times

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15
1.0 miles		03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15
1.5 miles		03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15
2.0 miles		03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15
2.5 miles		03:10	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00
3.0 miles		03:10	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00
3.5 miles			03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00
4.0 miles			03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00
4.5 miles			03:10	03:10	03:30	03:45	04:00	04:15	04:30	04:45
5.0 miles			03:10	03:10	03:30	03:45	04:00	04:15	04:30	04:45
5.5 miles				03:10	03:30	03:45	04:00	04:15	04:30	04:45
6.0 miles				03:10	03:30	03:45	04:00	04:15	04:30	04:45
6.5 miles				03:10	03:10	03:30	03:45	04:00	04:15	04:30
7.0 miles				03:10	03:10	03:30	03:45	04:00	04:15	04:30
7.5 miles					03:10	03:30	03:45	04:00	04:15	04:30
8.0 miles					03:10	03:30	03:45	04:00	04:15	04:30
8.5 miles					03:10	03:10	03:30	03:45	04:00	04:15
9.0 miles					03:10	03:10	03:30	03:45	04:00	04:15
9.5 miles						03:10	03:30	03:45	04:00	04:15
10.0 miles						03:10	03:30	03:45	04:00	04:15

Plume Phase Environmental Information

Closed Window External Dose Rates (mR/hr)

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		2.0	3.0	3.0	2.0	1.5	1.0	0.5	0.4	0.3
1.0 miles		6.0	9.0	9.0	7.0	5.0	3.5	2.0	1.5	1.0
1.5 miles		5.5	7.9	7.9	6.2	4.5	3.0	1.7	1.2	0.7
2.0 miles		5.0	7.0	7.0	5.5	4.0	2.5	1.5	1.0	0.3
2.5 miles		4.3	4.3	6.1	6.1	4.8	3.5	2.1	1.2	0.9
3.0 miles		3.7	3.7	5.3	5.3	4.2	3.1	1.8	1.0	0.7
3.5 miles			3.2	4.6	4.6	3.7	2.7	1.6	0.9	0.6
4.0 miles			2.7	4.0	4.0	3.3	2.3	1.4	0.7	0.5
4.5 miles			2.3	2.3	3.5	3.5	2.9	2.1	1.2	0.6
5.0 miles			2.0	2.0	3.0	3.0	2.5	1.8	1.0	0.5
5.5 miles				1.9	2.8	2.8	2.3	1.7	0.9	0.5
6.0 miles				1.7	2.6	2.6	2.1	1.5	0.9	0.4
6.5 miles				1.6	1.6	2.4	2.4	1.9	1.4	0.8
7.0 miles				1.5	1.5	2.3	2.3	1.7	1.3	0.8
7.5 miles					1.4	2.1	2.1	1.6	1.2	0.7
8.0 miles					1.3	2.0	2.0	1.4	1.1	0.7
8.5 miles					1.2	1.2	1.8	1.8	1.3	1.0
9.0 miles					1.1	1.1	1.7	1.7	1.2	0.9
9.5 miles						1.0	1.6	1.6	1.1	0.9
10.0 miles						0.95	1.5	1.5	1.0	0.8

Notes:

Survey results at Waist Level will be the same at 2" off Ground Level when inside the plume.

Plume Phase Environmental Information

Open Window External Dose Rates (mR/hr)

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		4.6	6.9	6.9	4.6	3.5	2.3	1.2	0.9	0.6
1.0 miles		13.8	20.7	20.7	16.1	11.5	8.1	4.6	3.5	2.3
1.5 miles		12.6	18.3	18.3	14.3	10.3	6.8	4.0	2.8	1.6
2.0 miles		11.5	16.1	16.1	12.7	9.2	5.8	3.5	2.3	0.6
2.5 miles		9.9	9.9	14.0	14.0	11.1	8.1	4.9	2.9	2.0
3.0 miles		8.5	8.5	12.1	12.1	9.7	7.1	4.2	2.4	1.7
3.5 miles			7.3	10.5	10.5	8.5	6.2	3.6	2.0	1.5
4.0 miles			6.2	9.2	9.2	7.5	5.4	3.1	1.7	1.2
4.5 miles			5.4	5.4	7.9	7.9	6.6	4.7	2.7	1.4
5.0 miles			4.6	4.6	6.9	6.9	5.8	4.1	2.3	1.2
5.5 miles				4.3	6.4	6.4	5.2	3.8	2.1	1.1
6.0 miles				4.0	6.0	6.0	4.8	3.5	2.0	1.0
6.5 miles				3.7	3.7	5.6	5.6	4.4	3.2	1.9
7.0 miles				3.4	3.4	5.2	5.2	4.0	3.0	1.7
7.5 miles					3.2	4.9	4.9	3.6	2.8	1.6
8.0 miles					2.9	4.6	4.6	3.3	2.5	1.5
8.5 miles					2.7	2.7	4.2	4.2	3.0	2.3
9.0 miles					2.5	2.5	4.0	4.0	2.8	2.2
9.5 miles						2.4	3.7	3.7	2.5	2.0
10.0 miles						2.2	3.5	3.5	2.3	1.8

Notes:

Survey results at Waist Level will be the same at 2" off Ground Level when inside the plume.

Plume Phase Environmental Information

General Area Plume Immersion (CPM) - E-140N or Ludlum-12 with HP-210 probe

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		3.00E+03	4.50E+03	4.50E+03	3.00E+03	2.25E+03	1.50E+03	7.50E+02	6.00E+02	4.20E+02
1.0 miles		9.00E+03	1.35E+04	1.35E+04	1.05E+04	7.50E+03	5.25E+03	3.00E+03	2.25E+03	1.50E+03
1.5 miles		8.22E+03	1.19E+04	1.19E+04	9.31E+03	6.71E+03	4.44E+03	2.60E+03	1.84E+03	1.05E+03
2.0 miles		7.50E+03	1.05E+04	1.05E+04	8.25E+03	6.00E+03	3.75E+03	2.25E+03	1.50E+03	4.20E+02
2.5 miles		6.44E+03	6.44E+03	9.12E+03	9.12E+03	7.23E+03	5.25E+03	3.22E+03	1.87E+03	1.29E+03
3.0 miles		5.53E+03	5.53E+03	7.92E+03	7.92E+03	6.34E+03	4.60E+03	2.76E+03	1.56E+03	1.11E+03
3.5 miles			4.74E+03	6.87E+03	6.87E+03	5.56E+03	4.02E+03	2.37E+03	1.30E+03	9.49E+02
4.0 miles			4.07E+03	5.97E+03	5.97E+03	4.88E+03	3.52E+03	2.04E+03	1.08E+03	8.14E+02
4.5 miles			3.49E+03	3.49E+03	5.18E+03	5.18E+03	4.28E+03	3.08E+03	1.75E+03	9.01E+02
5.0 miles			3.00E+03	3.00E+03	4.50E+03	4.50E+03	3.75E+03	2.70E+03	1.50E+03	7.50E+02
5.5 miles				2.78E+03	4.20E+03	4.20E+03	3.42E+03	2.49E+03	1.40E+03	7.00E+02
6.0 miles				2.58E+03	3.92E+03	3.92E+03	3.12E+03	2.30E+03	1.31E+03	6.53E+02
6.5 miles				2.40E+03	2.40E+03	3.66E+03	3.66E+03	2.85E+03	2.12E+03	1.22E+03
7.0 miles				2.23E+03	2.23E+03	3.41E+03	3.41E+03	2.60E+03	1.95E+03	1.14E+03
7.5 miles					2.07E+03	3.18E+03	3.18E+03	2.37E+03	1.80E+03	1.06E+03
8.0 miles					1.92E+03	2.97E+03	2.97E+03	2.16E+03	1.66E+03	9.90E+02
8.5 miles					1.78E+03	1.78E+03	2.77E+03	2.77E+03	1.97E+03	1.53E+03
9.0 miles					1.65E+03	1.65E+03	2.58E+03	2.58E+03	1.80E+03	1.41E+03
9.5 miles						1.54E+03	2.41E+03	2.41E+03	1.64E+03	1.30E+03
10.0 miles						1.43E+03	2.25E+03	2.25E+03	1.50E+03	1.20E+03

Notes:

Readings beyond the high scale are provided to allow indication of rate of change.
Survey results at Waist Level will be the same at 2" off Ground Level when inside the plume.

Plume Phase Environmental Information

Thyroid Dose Rates (mRem/hr)

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		9.5	15.2	16.0	13.2	10.1	6.9	3.5	3.2	2.2
1.0 miles		32.1	52.4	54.1	43.9	33.8	23.6	11.8	10.8	7.6
1.5 miles		27.6	46.1	46.8	38.5	29.3	20.0	10.3	9.5	6.6
2.0 miles		23.6	40.5	40.5	33.8	25.3	16.9	9.0	8.3	5.8
2.5 miles		20.9	20.9	35.0	35.6	29.7	22.4	14.9	7.8	7.3
3.0 miles		18.5	18.5	30.3	31.3	26.2	19.8	13.2	6.9	6.4
3.5 miles			16.4	26.2	27.4	23.0	17.6	11.7	6.0	5.7
4.0 miles			14.5	22.6	24.1	20.3	15.5	10.4	5.3	5.0
4.5 miles			12.8	12.8	19.5	21.2	17.8	13.7	9.2	4.6
5.0 miles			11.3	11.3	16.9	18.6	15.7	12.2	8.1	4.1
5.5 miles				10.4	15.8	17.2	14.5	11.2	7.5	3.7
6.0 miles				9.6	14.7	15.9	13.4	10.3	6.9	3.5
6.5 miles				8.9	8.9	13.7	14.8	12.4	9.5	6.4
7.0 miles				8.2	8.2	12.8	13.7	11.4	8.8	5.9
7.5 miles					7.6	11.9	12.7	10.6	8.1	5.5
8.0 miles					7.0	11.1	11.7	9.8	7.5	5.1
8.5 miles					6.4	6.4	10.4	10.8	9.0	6.9
9.0 miles					6.0	6.0	9.7	10.0	8.3	6.4
9.5 miles						5.5	9.1	9.3	7.7	5.9
10.0 miles						5.1	8.4	8.6	7.1	5.4

Notes:

Thyroid Dose Rates are provided for controller and scenario information only.

Plume Phase Environmental Information

Iodine I-131Concentration (µCi/cc)

Downwind Distance	Scenario/Elapsed Time 11:10 / 03:10	11:30 / 03:30	11:45 / 03:45	12:00 / 04:00	12:15 / 04:15	12:30 / 04:30	12:45 / 04:45	13:00 / 05:00	13:15 / 05:15	13:30 / 05:30
0.5 miles		7.34E-09	1.17E-08	1.23E-08	1.01E-08	7.80E-09	5.33E-09	2.73E-09	2.47E-09	1.73E-09
1.0 miles		2.47E-08	4.03E-08	4.16E-08	3.38E-08	2.60E-08	1.82E-08	9.10E-09	8.32E-09	5.82E-09
1.5 miles		2.12E-08	3.54E-08	3.60E-08	2.96E-08	2.25E-08	1.54E-08	7.91E-09	7.28E-09	5.09E-09
2.0 miles		1.82E-08	3.12E-08	3.12E-08	2.60E-08	1.95E-08	1.30E-08	6.89E-09	6.37E-09	4.46E-09
2.5 miles		1.61E-08	1.61E-08	2.70E-08	2.74E-08	2.29E-08	1.72E-08	1.15E-08	6.03E-09	5.61E-09
3.0 miles		1.42E-08	1.42E-08	2.33E-08	2.40E-08	2.01E-08	1.53E-08	1.02E-08	5.29E-09	4.95E-09
3.5 miles			1.26E-08	2.01E-08	2.11E-08	1.77E-08	1.35E-08	9.00E-09	4.63E-09	4.36E-09
4.0 miles			1.11E-08	1.74E-08	1.85E-08	1.56E-08	1.19E-08	7.97E-09	4.06E-09	3.85E-09
4.5 miles			9.84E-09	9.84E-09	1.50E-08	1.63E-08	1.37E-08	1.06E-08	7.05E-09	3.56E-09
5.0 miles			8.71E-09	8.71E-09	1.30E-08	1.43E-08	1.21E-08	9.36E-09	6.24E-09	3.12E-09
5.5 miles				8.03E-09	1.21E-08	1.32E-08	1.12E-08	8.63E-09	5.77E-09	2.88E-09
6.0 miles				7.41E-09	1.13E-08	1.23E-08	1.03E-08	7.95E-09	5.34E-09	2.67E-09
6.5 miles				6.84E-09	6.84E-09	1.06E-08	1.13E-08	9.52E-09	7.34E-09	4.94E-09
7.0 miles				6.31E-09	6.31E-09	9.85E-09	1.05E-08	8.79E-09	6.76E-09	4.57E-09
7.5 miles					5.83E-09	9.19E-09	9.73E-09	8.12E-09	6.24E-09	4.22E-09
8.0 miles					5.38E-09	8.57E-09	9.01E-09	7.50E-09	5.75E-09	3.91E-09
8.5 miles					4.96E-09	4.96E-09	8.00E-09	8.35E-09	6.93E-09	5.30E-09
9.0 miles					4.58E-09	4.58E-09	7.46E-09	7.73E-09	6.40E-09	4.89E-09
9.5 miles						4.22E-09	6.96E-09	7.16E-09	5.91E-09	4.51E-09
10.0 miles						3.90E-09	6.50E-09	6.63E-09	5.46E-09	4.16E-09

Notes:

I-131 concentrations are provided for controller and scenario information only.

Plume Phase Environmental Information

Iodine Cartridge Readings (Net Sample CPM using E-600 with SPA-9 probe) - Pilgrim Field Teams

Downwind Distance	Scenario/Elapsed Time 11:10 / 03:10	11:30 / 03:30	11:45 / 03:45	12:00 / 04:00	12:15 / 04:15	12:30 / 04:30	12:45 / 04:45	13:00 / 05:00	13:15 / 05:15	13:30 / 05:30
0.5 miles		139	221	233	191	147	101	BKGD	BKGD	BKGD
1.0 miles		466	760	785	637	490	343	172	157	110
1.5 miles		400	669	679	559	425	290	149	137	96
2.0 miles		343	588	588	490	368	245	130	120	84
2.5 miles		304	304	509	517	432	325	217	114	106
3.0 miles		268	268	439	454	380	288	192	100	93
3.5 miles			237	380	398	334	255	170	87	82
4.0 miles			210	328	350	294	225	150	77	73
4.5 miles			186	186	284	307	259	199	133	67
5.0 miles			164	164	245	270	228	177	118	BKGD
5.5 miles				152	229	250	211	163	109	BKGD
6.0 miles				140	213	231	194	150	101	BKGD
6.5 miles				129	129	199	214	180	138	93
7.0 miles				119	119	186	198	166	128	86
7.5 miles					110	173	184	153	118	80
8.0 miles					101	162	170	142	109	74
8.5 miles					94	94	151	157	131	100
9.0 miles					86	86	141	146	121	92
9.5 miles						80	131	135	111	85
10.0 miles						74	123	125	103	78

Notes:

Assumes sample volume of 20 cubic feet.
Assumes E-600 with SPA-9 probe counter efficiency of 1.5% for iodine cartridge
Assumes background count rate of 50 CPM.
All iodine cartridge dose rates are "Bkg levels or As Read" in mR/hr.

Plume Phase Environmental Information

Iodine Cartridge Readings (Net Sample CPM using E-140-N with HP-210 probe) - MA Field Teams

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
1.0 miles		77	126	130	106	81	BKGD	BKGD	BKGD	BKGD
1.5 miles		66	111	113	93	70	BKGD	BKGD	BKGD	BKGD
2.0 miles		BKGD	97	97	81	61	BKGD	BKGD	BKGD	BKGD
2.5 miles		BKGD	BKGD	84	86	71	BKGD	BKGD	BKGD	BKGD
3.0 miles		BKGD	BKGD	73	75	63	BKGD	BKGD	BKGD	BKGD
3.5 miles			BKGD	63	66	BKGD	BKGD	BKGD	BKGD	BKGD
4.0 miles			BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
4.5 miles			BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
5.0 miles			BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
5.5 miles				BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
6.0 miles				BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
6.5 miles				BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
7.0 miles				BKGD	BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
7.5 miles					BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
8.0 miles					BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
8.5 miles					BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
9.0 miles					BKGD	BKGD	BKGD	BKGD	BKGD	BKGD
9.5 miles						BKGD	BKGD	BKGD	BKGD	BKGD
10.0 miles						BKGD	BKGD	BKGD	BKGD	BKGD

Notes:

Assumes sample volume of 20 cubic feet.
Assumes E-140N with HP-210 probe counter efficiency of 0.25% for iodine cartridge.
Assumes background count rate of 50 CPM.

Plume Phase Environmental Information

Gross Particulate Concentration (µCi/cc)

Downwind Distance	Scenario/Elapsed Time 11:10 / 03:10	11:30 / 03:30	11:45 / 03:45	12:00 / 04:00	12:15 / 04:15	12:30 / 04:30	12:45 / 04:45	13:00 / 05:00	13:15 / 05:15	13:30 / 05:30
0.5 miles		4.77E-10	7.60E-10	8.02E-10	6.59E-10	5.07E-10	3.46E-10	1.77E-10	1.60E-10	1.12E-10
1.0 miles		1.60E-09	2.62E-09	2.70E-09	2.20E-09	1.69E-09	1.18E-09	5.91E-10	5.41E-10	3.78E-10
1.5 miles		1.38E-09	2.30E-09	2.34E-09	1.93E-09	1.46E-09	9.99E-10	5.14E-10	4.73E-10	3.31E-10
2.0 miles		1.18E-09	2.03E-09	2.03E-09	1.69E-09	1.27E-09	8.45E-10	4.48E-10	4.14E-10	2.90E-10
2.5 miles		1.05E-09	1.05E-09	1.75E-09	1.78E-09	1.49E-09	1.12E-09	7.47E-10	3.92E-10	3.65E-10
3.0 miles		9.25E-10	9.25E-10	1.51E-09	1.56E-09	1.31E-09	9.92E-10	6.61E-10	3.44E-10	3.22E-10
3.5 miles			8.18E-10	1.31E-09	1.37E-09	1.15E-09	8.78E-10	5.85E-10	3.01E-10	2.84E-10
4.0 miles			7.23E-10	1.13E-09	1.20E-09	1.01E-09	7.77E-10	5.18E-10	2.64E-10	2.50E-10
4.5 miles			6.40E-10	6.40E-10	9.77E-10	1.06E-09	8.92E-10	6.87E-10	4.58E-10	2.31E-10
5.0 miles			5.66E-10	5.66E-10	8.45E-10	9.29E-10	7.85E-10	6.08E-10	4.05E-10	2.03E-10
5.5 miles				5.22E-10	7.88E-10	8.60E-10	7.25E-10	5.61E-10	3.75E-10	1.87E-10
6.0 miles				4.82E-10	7.35E-10	7.97E-10	6.70E-10	5.17E-10	3.47E-10	1.73E-10
6.5 miles				4.45E-10	4.45E-10	6.86E-10	7.38E-10	6.19E-10	4.77E-10	3.21E-10
7.0 miles				4.10E-10	4.10E-10	6.40E-10	6.83E-10	5.72E-10	4.40E-10	2.97E-10
7.5 miles					3.79E-10	5.97E-10	6.33E-10	5.28E-10	4.05E-10	2.74E-10
8.0 miles					3.49E-10	5.57E-10	5.86E-10	4.88E-10	3.74E-10	2.54E-10
8.5 miles					3.22E-10	3.22E-10	5.20E-10	5.42E-10	4.50E-10	3.45E-10
9.0 miles					2.98E-10	2.98E-10	4.85E-10	5.02E-10	4.16E-10	3.18E-10
9.5 miles						2.75E-10	4.53E-10	4.65E-10	3.84E-10	2.93E-10
10.0 miles						2.53E-10	4.22E-10	4.31E-10	3.55E-10	2.70E-10

Notes:

Gross Particulate concentrations are provided for controller and scenario information only.

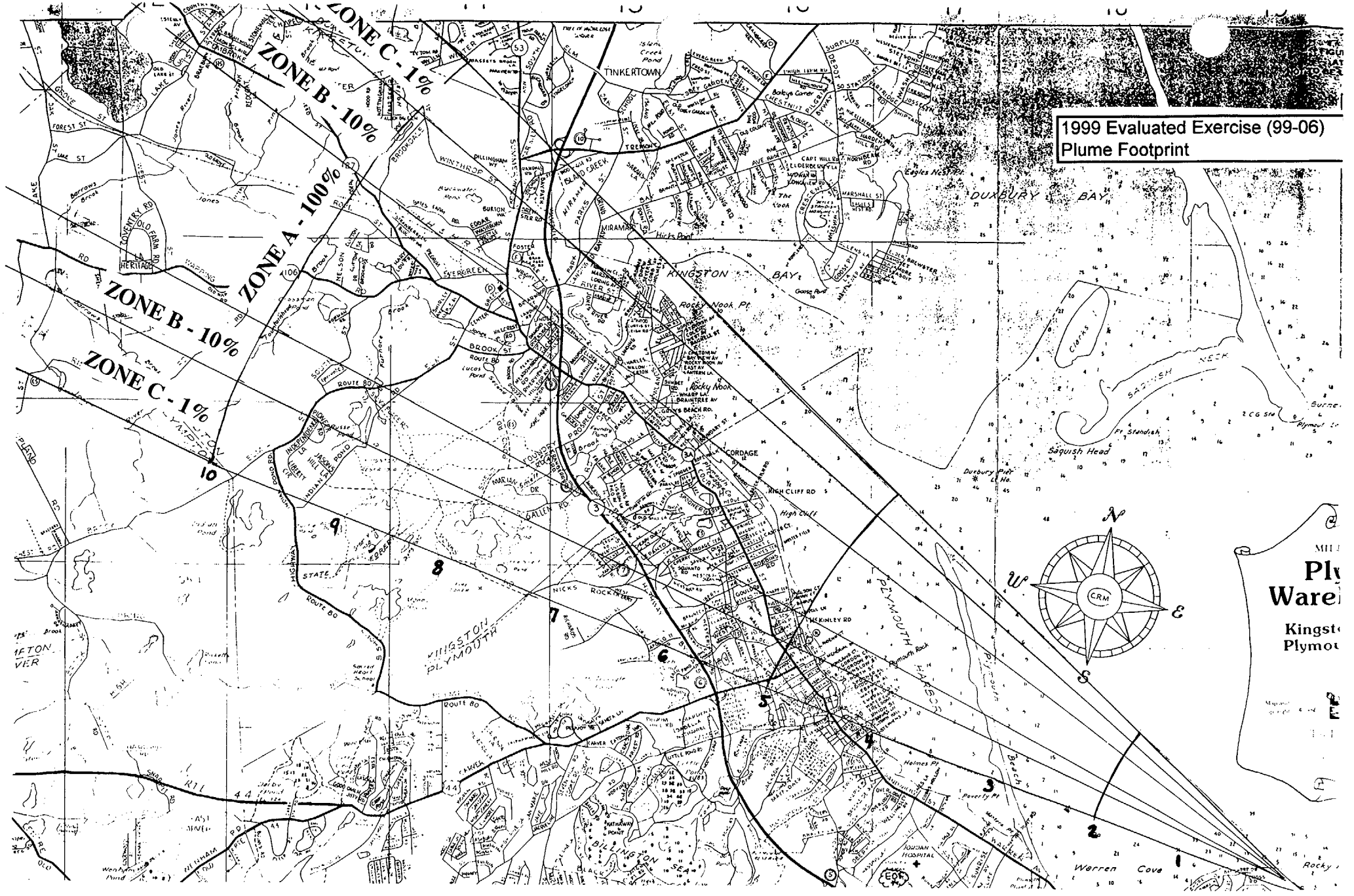
Plume Phase Environmental Information

Gross Particulate Activity - Net Sample in CPM
(Ludlum-12 with HP-210 probe - Pilgrim or E-140N with HP210 probe- MA)

Downwind Distance	Scenario/Elapsed Time									
	11:10	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30
	03:10	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30
0.5 miles		60	96	101	83	64	BKGD	BKGD	BKGD	BKGD
1.0 miles		202	329	340	276	212	149	74	68	BKGD
1.5 miles		173	290	294	242	184	126	65	BKGD	BKGD
2.0 miles		149	255	255	212	159	106	BKGD	BKGD	BKGD
2.5 miles		131	131	220	224	187	141	94	BKGD	BKGD
3.0 miles		116	116	190	197	165	125	83	BKGD	BKGD
3.5 miles			103	165	173	145	110	74	BKGD	BKGD
4.0 miles			91	142	152	127	98	65	BKGD	BKGD
4.5 miles			80	80	123	133	112	86	BKGD	BKGD
5.0 miles			71	71	106	117	99	76	BKGD	BKGD
5.5 miles				66	99	108	91	71	BKGD	BKGD
6.0 miles				61	92	100	84	65	BKGD	BKGD
6.5 miles				BKGD	BKGD	86	93	78	BKGD	BKGD
7.0 miles				BKGD	BKGD	80	86	72	BKGD	BKGD
7.5 miles					BKGD	75	80	66	BKGD	BKGD
8.0 miles					BKGD	70	74	61	BKGD	BKGD
8.5 miles					BKGD	BKGD	65	68	BKGD	BKGD
9.0 miles					BKGD	BKGD	61	63	BKGD	BKGD
9.5 miles						BKGD	BKGD	BKGD	BKGD	BKGD
10.0 miles						BKGD	BKGD	BKGD	BKGD	BKGD

Notes:

Assumes sample volume of 20 cubic feet.
Assumes survey counter efficiency of 10% for air sample particulate filter.
Assumes background count rate of 50 CPM.


1999 Evaluated Exercise (99-06)
Plume Footprint
ZONE C - 1%
ZONE B - 10%
ZONE A - 100%
ZONE B - 10%
ZONE C - 1%
TINKERTOWN
KINGSTON BAY
DUXBURY BAY
Rocky Nook Pt.
Rocky Nook
CORDAGE
HIGH CLIFF RD
High Cliff
KINGSTON
PLYMOUTH
PLYMOUTH HARBOR
Plymouth Rock
Saquish Head
Ft Standish
Clarks
Warren Cove
Holmes Pt
Poverty Pt
Eagles Nest Pt
Hicks Point
Goose Point
Dusbury Pier Lt Ho.
Ply
Ware
Kingst
Plymou
N
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E
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CRM
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EMERGENCY RESPONSE FACILITIES

Control Room (CR) (Simulator will be used in lieu of CR)

The Control Room is designated to be habitable under emergency conditions. The Control room contains those controls, instruments, and communications equipment necessary for operation of the plant under both normal and emergency conditions. The ventilation system, shielding, and structural integrity are designed and built to permit continuous occupancy during the postulated design basis accident.

The Nuclear Watch Engineer (NWE) maintains the responsibility for directing operations in the Control Room. The Control Room is located on the 37' level of the turbine building.

The equipment available in the Control Room provides early warning of a potential emergency situation and provides for a continuing evaluation of the emergency situation. Meteorological data is available from a meteorological tower which transmits wind speed and direction data to the Control Room. Respiratory protection equipment, anti-contamination clothing, portable survey instruments, counting equipment, tools, and rescue equipment are readily available within the Station.

Technical Support Center (TSC)

The TSC is located within the protected area on the first floor of the Operations and Maintenance Building. A separate office area within the TSC is available for Nuclear Regulatory Commission (NRC) personnel. This office contains telephone communications equipment. The TSC is of sufficient size to accommodate approximately 25 people. The TSC is equipped and staffed to provide expert technical capability to assess plant status and make recommendations on plant operations to the Control Room.

The TSC is activated upon declaration of an Alert, Site Area Emergency, and/or General Emergency. A closed circuit television monitor transmits pertinent instrument readings from the Control Room to the TSC. This monitor is controlled by TSC personnel and may be used to view instrumentation throughout the Control Room. The Emergency Plant Manager responds to the TSC. Adequate communications with the Control Room, other emergency facilities and offsite organizations is available. The TSC has dedicated telephone lines between the Control Room and TSC. Additionally, both the Control Room and TSC have access to the Station paging system (Gai-tronics) and the Station internal telephone system to further enhance communications. The TSC has the ability to communicate with the Control Room, the EOF, and NRC Headquarters in Bethesda, Maryland, and the Regional NRC Office in King of Prussia, Pennsylvania.

Operations Support Center (OSC)

An Operations Support Center has been established in the Operations and Maintenance Building adjacent to the TSC. The Operations support function is to provide personnel (non-Control Room shift personnel) in support of emergency re-entry/repair teams. The OSC Supervisor is responsible to the NWE/EPOS and/or the Emergency Plant Manager. Direct communication with the TSC is possible. Necessary equipment is available throughout the Station and may be accessed by personnel assigned to the OSC.

Emergency Operations Facility (EOF)

The EOF is located in the basement of the Sheriff's facility on the grounds of the Plymouth County House of Correction in Plymouth, approximately four (4) miles west of Pilgrim Station. The EOF is a PNPS controlled and operated facility. During an emergency the EOF is staffed and equipped to provide the overall PNPS emergency response; coordination of radiological and environmental assessment; development of protective action recommendations for the general public; and coordination of emergency response activities with Federal, Commonwealth and local agencies. Security personnel will be assigned to control EOF access.

The EOF consists of the Operations Room, the Communications Room conference rooms and several office areas. In addition to the pre-designated PNPS staff, the EOF has space to accommodate nine (9) NRC representatives as well as representatives from FEMA, MDPH and Massachusetts Emergency Management Agency (MEMA) and key local authorities. If necessary, the EOF may be used to accommodate outside technical support groups and elements of the Recovery Center staff.

The primary function of the EOF is to provide management of the overall emergency response to any event at an Alert or higher classification. The EOF provides radiological and meteorological data to assess offsite radiation levels. This information is used by EOF personnel to update/inform the NRC and Commonwealth and local emergency response agencies about conditions potentially affecting the public in accordance with the Emergency Plan.

Media Center (MC)

The Media Center is a joint facility, staffed and operated by Pilgrim Station, and the Commonwealth of Massachusetts. The primary purpose of the facility is to provide a central location for the coordination of public information prior to its release to the news media. The communications capabilities include standard telephones, ring-down telephone line to the EOF, computer link to the EOF and telecopy links to all offsite agencies. The Center includes work areas for PNPS, each offsite agency, and the news media, as well as a briefing area for joint news conferences.

Technical Assessment Group (TAG)

The TAG provides technical and engineering support to the TSC staff at Pilgrim Nuclear Power Station. The TAG Coordinator is responsible for coordinating activities, including requests from the TSC. The TAG Coordinator reports directly to the TSC Supervisor. The TAG is equipped with dedicated communications to the EOF, TSC and the Control Room.

DRILL/EXERCISE ORGANIZATION

Lead Drill/Exercise Controller

The Lead Drill/Exercise Controller is responsible for the conduct of a successful Drill/Exercise and will coordinate Drill/Exercise preparations including the development of the scenario and messages. The Lead Drill/Exercise Controller will ensure the safe conduct of the Drill/Exercise and is responsible for resolution of any scenario-related inter facility questions, as well as the assurance that the conduct of the Drill/Exercise does not adversely impact the operation of the station. The Lead Drill/Exercise Controller will coordinate the preparation of a consolidated evaluation package and prepare an itemized list of corrective actions recommended as a result of the evaluation and critique.

Controller/Evaluators

The Controller/Evaluators are personnel selected to deliver Drill/Exercise Messages to designated players at specific times and places during the Drill/Exercise. They will inject or deliver additional messages, as may be required, to initiate appropriate player response to keep the Drill/Exercise action moving according to the scenario and to ensure the demonstration of all Drill/Exercise objectives. The Controller/Evaluators will be briefed on the instructions contained in this Drill/Exercise Manual.

As Controller/Evaluators, they are assigned to observe the Drill/Exercise and to judge the effectiveness of selected organizations, personnel, functions, and activities in response to the simulated emergency situation. Selection of Controller/Evaluators is based upon their expertise and qualifications to evaluate an assigned activity or area. They will record their observations using an evaluation form and provide recommendations on corrective actions to the Lead Drill/Exercise Controller prior to the scheduled critique. They will evaluate Drill/Exercise performance on the basis of standards or requirements contained in the PNPS Emergency Plan, Emergency Operations Procedures (EOPs) and the associated Implementing Procedures. They will take steps, whenever possible, to collect data on the time-and-motion aspects of the activities observed for post-Exercise use in designating and implementing system improvements. A Lead Controller/Evaluator is assigned to each emergency response facility. Each Lead Controller/Evaluator is responsible for all Controller, Evaluator, and Observer activities within that facility.

Players

The Players include PNPS personnel assigned to perform emergency functions as described in the Emergency Plan and Implementing Procedures. Players from offsite organizations and agencies (Commonwealth and local) are participants as they would be during an actual emergency situation.

The success of the Drill/Exercise is largely dependent upon player reaction, and knowledge of the Emergency Plans and Implementing Procedures, and an understanding of the Drill/Exercise Objectives. Initial conditions will be provided by Controller/Evaluators as appropriate. The Drill/Exercise Players are responsible for initiating actions during the Drill/Exercise in accordance with procedures, responsibilities, and tasks outlined for their

particular function in the Emergency Plan and Implementing Procedures. Each Drill/Exercise Player will advise their Controller/Evaluator prior to simulating required emergency actions to ensure that credit is awarded.

Drill/Exercise Players should not be excessively concerned with the mechanics of the scenario. This Drill/Exercise is designed to evaluate the Emergency Plan, the Implementing Procedures, and the Emergency Preparedness training program, and is not concerned with the probability, feasibility, or detailed mechanics of the simulated accident. Drill/Exercise Players should note any needed improvements that come to their attention during the Drill/Exercise and submit them to the appropriate Controller/Evaluator at the conclusion of the Drill/Exercise.

Evaluators

Evaluators include members of the NRC, INPO, or FEMA evaluation teams and they will have prior knowledge of the Drill/Exercise scenario. They will observe the Drill/Exercise and evaluate the ability to protect the health and safety of the public. The NRC will present their findings at the post-exercise critique.

Observers

Observers from PNPS and other organizations may be authorized, on a limited basis, to observe Drill/Exercise activity for personal education. Observers will report initially to the Emergency Preparedness Superintendent for credential review and authorized admittance. They will be provided with Drill/Exercise information as required. Requests to participate as an Observer will be made in writing and contain the Observer's full name, home address and phone number, and organization affiliation. Requests to participate as observers will be submitted to the Emergency Preparedness Superintendent no later than two weeks prior to the Drill/Exercise.

GENERAL GUIDELINES

To simulate an accident sequence severe enough to test the emergency response capabilities of participating organizations, it is necessary to postulate unrealistic situations and multiple failures of redundant reactor protection functions and systems. The objective of drills and exercises is to demonstrate the ability of participating organizations to protect the public, and appropriately respond to such improbable sequences of events.

Emergency response actions during simulated emergencies include:

- recognition and classification of emergency conditions
- assessment of onsite and offsite radiological consequences
- alert, notification, and mobilization of emergency response organizations
- activation and operation of emergency response facilities and equipment
- implementation of in-plant corrective actions
- preparation of reports, messages, and records, and
- recommendation of protective actions.

The Control Room Simulator (CRSIM) and the Emergency Operations Facility (EOF) are the central points for distribution of Drill/Exercise messages. Simulated plant parameters will be provided to the control room operators using messages and plant data sheets should the simulator fail. Radiological and meteorological data is not provided to players automatically, but is distributed by controllers when players demonstrate the capability to obtain that information from appropriate sources. At no time, unless noted specifically as an exception, will information be interjected at a point where it would not be available in a real emergency. The Lead Drill/Exercise Controller may interject other information or change a message to ensure that the Drill/Exercise progresses as planned.

The contingency messages are to be delivered only if the designated players do not complete a specific action or accomplish previously specified criteria. The information contained in the controller notes in Section 4.0 and information in Section 5.0 are for use by Observer/Controllers only and is to be disseminated to players only when the ability to obtain the information from actual sources is demonstrated.

The Drill/Exercise Players are expected to "free play" the scenario to the extent practical. Notifications of, and contact with, supervisors, plant management, and corporate management will be made in accordance with the appropriate corporate and site implementing procedures.

Since it is required that the Drill/Exercise test offsite emergency activities, it is necessary to postulate non-credible situations. The players should accept the Drill/Exercise Messages as written. If corrective actions could be postulated that would terminate the emergency, they should be identified by the Players to the Lead Facility Controller so that credit can be given for postulated actions.

Notifications of, and communications with, offsite agencies, including the NRC, will be made in accordance with appropriate implementing procedure, unless otherwise directed by the Lead Facility Controller. The Plant Emergency Alarm shall be sounded and site-wide announcements shall be made as appropriate to the development of the Drill/Exercise Scenario. If directed by these announcements, a site evacuation will be performed.

The postulated accident conditions may result in a simulated radiological release which necessitates the consideration of protective actions for plant personnel and the general public. Meteorological conditions may be varied throughout the Drill/Exercise.

Participants will perform appropriate radiological monitoring and dose assessment activities. Onsite PNPS emergency response personnel shall use required protective clothing, if appropriate.

Participation by PNPS onsite personnel directly involved in responding to an emergency shall be carried out to the fullest extent possible, including the deployment of radiological monitoring teams, emergency repair teams, and other emergency workers.

Due to time and logistical constraints, it will be necessary to accelerate certain parameters, data and events that pertain to fuel damage. If required by the scenario, reactor coolant and/or containment atmosphere "grab" samples will be obtained and analyzed utilizing the Post Accident Sampling System (PASS) (simulated). However, resulting data will be simulated through the appropriate controller.

Since there are several segments of the Drill/Exercise that depend on proper messages between the Control Room, TSC, OSC, and EOF, notification messages between these contact points may be reviewed by the Controller/Evaluators prior to their issuance. The Controller/Evaluator may interject other information or change a message to ensure that the Drill/Exercise progresses as planned. Only Lead Facility Controllers can modify Drill/Exercise Messages or initiate Free Play Messages.

The Drill/Exercise will be observed by Controllers/Evaluators who have the qualifications to evaluate the activity in their assigned locations. Evaluation of the Drill/Exercise will be based on the requirements contained in the Emergency Plan and Implementing Procedures. Controller/Evaluators will prepare evaluation forms and provide recommendations on corrective actions to the Lead Drill/Exercise Controller.

Following the Drill/Exercise, the Drill/Exercise Coordinator will conduct a Lead Controller debriefing. Negative and positive items will be identified for inclusion in the Drill/Exercise Report. The report will be issued within 30 working days of the Drill/Exercise. Designated report reviewer will determine whether any deficiencies and/or corrective actions are required. Approval of identified corrective actions are required.

PRECAUTIONS AND LIMITATIONS

This section provides guidance for all Drill/Exercise Controllers and Evaluators for the conduct of this Drill/Exercise. Prior to initiation of the Drill/Exercise, a briefing will be held to review the entire Drill/Exercise process with all the Drill/Exercise Controllers/Evaluators identified in this manual.

- Should, at any time during the conduct of this Drill/Exercise, an actual emergency situation arise, all activities and communications related to the Drill/Exercise will be suspended. It will be the responsibility of any Drill/Exercise Controller that becomes aware of an actual emergency to suspend Drill/Exercise response in his/her immediate area and to inform the Lead Drill/Exercise Controller of the situation. Upon notification of an actual emergency, the Lead Drill/Exercise Controller will make the decision to suspend all or some of the Drill/Exercise activities or to place a temporary hold on, or terminate the Drill/Exercise.

- Any action that would, in the opinion of the Controller/Evaluator, place either an individual or component in an unsafe condition, the Controller/Evaluator is responsible for intervening in the individual's actions and terminating the unsafe activity immediately. Upon termination of the activity, the Controller/Evaluator is responsible for contacting the Lead Drill/Exercise Controller and informing him/her of the situation.

- Manipulation of any plant operating system, valves, breakers, or controls in response to this Drill/Exercise are only to be simulated. There is to be no alternation of any plant operating equipment, systems, or circuits during the response to this Drill/Exercise.

- No pressurization of fire hoses, discharging of fire extinguishers, or initiation of any fire suppression systems will be allowed for the Drill/Exercise.

- All repair activities associated with the scenario will be simulated, with extreme caution emphasized around operating equipment.

- All telephone communications, radio transmissions, and public address announcements related to the Drill/Exercise must begin and end with the statement, "**This is a Drill.**" Should a Controller/Evaluator witness an Drill/Exercise participant not observing this practice, it is the Controller/Evaluator's responsibility to remind the individual of the need to follow this procedure.

- Any PNPS motor vehicle response to this Drill/Exercise, will observe all normal motor vehicle operating laws including posted speed limits, stop lights/signs, one way streets, etc.

- Should any onsite security actions be required in response to this Drill/Exercise, Drill/Exercise participants are to cooperate s directed by the Security Force, and security representatives are to be prudent and tolerant in their actions.

- Exercise participants are to inject as much realism into the Drill/Exercise as is consistent with its safe performance, however, caution must be used to prevent over-reaction.

- Care must be taken to prevent any non-participating individuals who may observe Drill/Exercise activities from believing that an actual emergency exists. Any Drill/Exercise Controller/Evaluator who is aware of an individual or group of individuals in the immediate vicinity who may have becomes alarmed or confused about the situation, should approach that individual or group and explain the nature of the Drill/Exercise and its intent.

- If you are entering normal nuclear station radiation and contamination areas, observe all rules and procedures; no one (including Observer/Controllers) is exempt from normal station radiological practices and procedures.

NOTE: DO NOT ENTER HIGH RADIATION AREAS IN THE PLANT; FOLLOW ALARA PRINCIPLES

PLAYER GUIDELINES

The success of the Drill/Exercise is largely dependent on player performance. Appropriate reaction to simulated emergency conditions and demonstrated competence in the Emergency Plan and Implementing Procedures are the key criteria by which the players are evaluated. It is imperative, therefore, that all player actions and activities are witnessed by a Controller/Evaluator. Those actions that are to be simulated must be brought to the attention of the Controller/Evaluator. Observation of response actions taken is mandatory for credit to be given for demonstration of an objective. Players are requested to observe the following guidelines:

- Maintain a serious attitude throughout the Drill/Exercise; this is especially true late in the Drill/Exercise or when activity is limited.
- Be courteous and professional at all times.
- Identify yourself by name and function to the Controller/Evaluator.
- Elements of Drill/Exercise play will be introduced through the use of controlled messages, and information generated by Players as a result of the particular emergency activity performed. Therefore, be responsible for initiating actions in accordance with instructions and your responsibilities.
- Communications should be concise and formal; always include "This is a Drill."
- Use and demonstrate knowledge of the Emergency Plans and Implementing Procedures.
- Use all resources and equipment available as you would in an actual emergency.
- Remember, one of the main purposes of an Drill/Exercise is for you, the player, to assure yourself that you are adequately prepared. Areas for improvement or lessons learned, when identified, will improve your overall emergency preparedness. Marked-up procedures or action items can be sent to the Emergency Preparedness Superintendent, 600 Rocky Hill Road, Pilgrim Station or call 830-8041.
- CONTROLLERS serve an active role in the Drill/Exercise by providing messages or instructions to the participants. They may also serve to initiate certain actions to assure continuity of the events described in the Drill/Exercise scenario. They also serve as EVALUATORS.
- EVALUATORS will be noting all actions, both positive and negative. They will be the main source of input to the PNPS critique.
- NRC Evaluators will be critiquing the Drill/Exercise and the performance of the participants.
- Play out all actions, as much as possible, in accordance with the Emergency Plan and Procedures as if it were a real emergency.

- Identify your actions to the Controller, speak out load, identifying your key actions and decisions to the Controllers and Federal Evaluators. This may seem artificial but it will assist in the evaluation process and is to your benefit.

- Any messages transmitted over communication lines or radios shall be preceded and followed by the statement **"THIS IS A DRILL"**.

- You should play as if radiation levels are actually present, in accordance with the information you have received. Unless otherwise specified, this will require normal radiological control measures including the wearing of protective clothing.

- Non-participants are exempt from acting on radiation levels specified for the emergency Drill/Exercise. However, normal radiological control practices shall be followed throughout the course of the Drill/Exercise.

- Several plant and radiological parameters will be available upon request at any time or at predetermined times during the Drill/Exercise. These plant parameters will be available in the Control Room (simulator).

- Only selected parameters and readings will be provided. The selected information will be sufficient to make decisions in accordance with PNPS plans and procedures.

- **DO NOT BECOME OVERLY CONCERNED WITH THE MECHANICS OF THE REACTOR OR THE CAUSE OF THE ACCIDENT. THIS Drill/Exercise IS DESIGNED TO TEST PNPS PLANS AND PROCEDURES AND IS NOT CONCERNED WITH ESTABLISHING THE PROBABILITY, FEASIBILITY OR DETAILED MECHANICS OF THE SIMULATED ACCIDENT.**

- There will be one or more Controllers at each important location to provide information and clarification.

- Any participants outside the plant property who encounter members of the news media during the Drill/Exercise should avoid responding to any questions. All press inquiries should be directed to the Lead Drill/Exercise Controller at the EOF.

- Do not take actions that would result in actual alterations of valve and switch positions in response to scenario simulations. Any event or operation outside the scenario that results in an actual or potential danger to plant operation or safety will take precedence over Drill/Exercise activity.

- Any PNPS motor vehicle response to this Drill/Exercise will observe all normal motor vehicle operating laws including posted speed limits, stop lights/signs, one way streets, etc.

- Should any onsite security actions be required in response to this Drill/Exercise, participants are to cooperate as directed by the Security Force; Security representatives are to be prudent and tolerant in their actions.

- While Drill/Exercise participants are to inject as much realism into the Drill/Exercise as possible, the safety of the plant and personnel shall not be jeopardized.

OBSERVER GUIDELINES

- Observers should not participate in the Drill/Exercise nor interfere in the actions taken by the Drill/Exercise participants, Controllers or Evaluators. Questions should be directed to Controllers, not participants.
- The event times and scenario are confidential and should be kept so during the Drill/Exercise. Do not discuss these with the participants.
- Identification badges and arm-bands are to be worn visibly by the Observers. Identification devices should be returned at the end of the Drill/Exercise or critique. Identify yourself to the Drill/Exercise Controllers.
- Observers should enter emergency facilities via their main entrance and check in with security personnel.
- Observers requiring emergency facility access during the Drill/Exercise should contact Pilgrim Station Emergency Preparedness Superintendent, 600 Rocky Hill Road, Pilgrim Station, or call 830-8041 two (2) weeks prior to the Drill/Exercise.

CONTROLLER GUIDELINES

Each Controller/Evaluator should be familiar with the following:

- The Drill/Exercise objectives.
- Precautions and limitations.
- The Drill/Exercise scenario, including assumptions, initiating events, and the expected player response.
- The various locations that will be involved and the specific items to be observed at those locations.
- The evaluation process.

Controller/Evaluators will position themselves at their assigned locations 30 minutes prior to the activation of the facility for which they have responsibility.

Controller Communications will be tested prior to Drill/Exercise commencement. All watches and clocks will be synchronized with the Lead Drill/Exercise Controller as part of the communications testing.

All Controller/Evaluators will comply with instructions from the Lead Drill/Exercise Controller.

Each Controller/Evaluator will have copies of the messages controlling the progress of the Drill/Exercise scenario. No message shall be delivered out of sequence or other than as written unless specifically authorized the Lead Facility/Functional Area Controller.

Messages controlling the progress of the scenario are noted with a number and the facility designator. Contingency messages are noted with a number followed by the facility designator and the letter "X" (e.g., 1-CRX). Contingency messages are only delivered if certain conditions indicated on the message are not met.

Each onsite Controller/Evaluator will have copies of plant data sheets. Data sheets will be distributed only in the Control Room should the simulator fail.

Controller/Evaluators will not provide information to the players regarding scenario progression or resolution of problems encountered in the course of the simulated emergency. The Drill/Exercise participants are expected to obtain information through their own organizations and use their own judgment in determining response actions and resolving problems.

Some players may insist that certain parts of the scenario are unrealistic. The Lead Controller/Evaluators have the sole authority to clarify any questions regarding scenario content.

EVALUATION PROCESS

All evaluators shall maintain a Drill/Exercise chronology. This chronology shall be of sufficient detail to enable subsequent completion of the appropriate evaluation form. it should contain a synopsis of significant Drill/Exercise events, actions taken (or not taken) by players, questions noted, and positive as well as negative assessments made by the evaluator. This chronological record may be used to corroborate critique items that are questioned by participants.

The following Objective checklists are to be used by the appropriate Controllers/Evaluators to evaluate the Drill/Exercise.

Control Room (Simulator)
Technical Support Center
Operations Support Center
Radiation Monitoring Team
Emergency Operations Facility
Dose Assessment
Media Center

Each Lead Controller shall debrief the evaluators for whom he/she is responsible and compile an Objective Checklist Summary Report for the facility. Each Summary shall reflect an overall assessment of the performance of that facility in five (5) specific categories. Significant weaknesses or deficiencies shall be itemized to ensure adequate follow-up attention is devoted to resolution of the problem. Positive comments should also be included in the Summary.

The formal Post-Exercise Critique shall be conducted by the Drill/Exercise Coordinator. During the critique, each Lead Controller will provide an evaluation of his/her facility. All Controller and Participant documentation (i.e., chronologicals, checklists, attendance sheets, etc.) shall be given to the Drill/Exercise Coordinator during this meeting.

Each Controller/Evaluator will take detailed notes regarding the progress of the Drill/Exercise and response of the Drill/Exercise participants at their assigned locations. Each Controller/Evaluator should carefully note the arrival and departure times of participants, the time when major activities or milestones occur, and problem areas encountered.

The standards below should be used by the Controller to evaluate assigned areas pertaining to the emergency response. A dual purpose will be served by this rating system. First, the capability of each facility or response area will be evaluated and second, the system will provide a vehicle for guiding and directing improvement. The rating scale is as follows:

Satisfactory - Personnel and equipment performed as required. Any errors or problems were minor and easily correctable.

Marginal - Personnel and equipment generally performed as required. Any errors noted were not severe and could be corrected without undue labor or expense.

Unsatisfactory - Personnel and equipment generally performed below expectations and there were several significant deficiencies noted. The area's ability to carry out its functions was diminished.

NA - Not applicable to the situation.

NO - Not observed

Controller/Evaluator comments should consider the demonstration of the following facility and team evaluation elements:

Facilities

- Command and Control
- Accurate and timely determination of emergency actions levels.
- Timely activation and staffing of each emergency facility.
- Familiarity of personnel with appropriate emergency instructions, duties and responsibilities.
- Timely notification of plant, local, State and Federal personnel/agencies (information updates performed).
- Adequacy of internal information systems (i.e., message handling, displays, status boards, and maps)
- Properly controlled documentation and accurate, timely record keeping.
- Utilization of correct communications procedures, protocol, and techniques.
- Capability of facility supervisor/directors to interface with personnel and coordinate facility activities.
- Adequacy of interface between emergency response facilities.
- Adequacy of equipment and supplies.
- Timely initiations of onsite protective/corrective actions.
- Development of protective action recommendations.
- Radiological surveys and assessment of plant damage and hazardous conditions performed.
- Timely request of emergency support services.
- Coordinate, accurate, and orderly dissemination of information to the news media.

Teams

- Timely notification and activation.
- Adequacy of staffing.
- Familiarity with appropriate emergency procedures, duties and responsibilities.
- Availability and utilization of proper equipment.
- Performance of contamination/decontamination control.
- Proper interface with emergency support personnel.
- Utilization of correct communications instructions and techniques.
- Availability of reference documents to team members.
- Utilization of proper radiological control practices (i.e., access control., protective clothing, shielding, stay time).
- Performance of radiological surveys.
- Timely and proper performance of damage assessment.
- Properly maintained survey records and maps.
- Adequacy of briefing sessions prior to dispatch.
- Direction and control by team leaders.
- Timely requests for offsite assistance.
- Coordination and interface between emergency response team members.
- Proper interface with plant supervisory personnel.

DRILL/EXERCISE OBJECTIVES

Exercise Planning

A.1 Conduct an exercise of the PNPS Emergency Plan.

A.2 Provide an opportunity for the Commonwealth of Massachusetts to participate in an exercise.

At least partial participation is required by the Commonwealth of Massachusetts in every annual exercise conducted at the Pilgrim Station. Full participation is required at least biennially.

A.3 Prepare an exercise information package to include:

a. The objectives of the exercise and appropriate evaluation criteria.
b. The date, time period, place and a list of participating organizations.
c. The simulated sequence of events.
d. The time schedule of real and simulated initiating events.
e. The narrative summary.

A.4 Conduct a critique of the exercise.

A.5 Prepare an Exercise report.

A.6 Identify open items.

A.7 Commence a drill/exercise between 1800-0400 once every 6 years.

A.8 Conduct the exercise in various weather conditions (during different seasons).

A.9 Conduct an unannounced drill/exercise (the knowledge of the exact date of the exercise is restricted to only non-players with a need to know) once every 6 years.

A.10 Provide the opportunity for the Commonwealth of Massachusetts and/or the State of Rhode Island to participate in an Ingestion Pathway exercise biennially. If the Commonwealth of Massachusetts and/or the State of Rhode Island agrees to participate, conduct an Ingestion Pathway exercise.

Emergency Organizations, Support, and Resources

B.1 Demonstrate the prompt activation, adequacy of the staffing and set up, as appropriate, of emergency response facilities as follows:

- Control Room (CR)
- Technical Support Center (TSC)
- Operations Support Center (OSC)
- Emergency Operations Facility (EOF)
- Media Center (MC)

B.2 Demonstrate the capability of the PNPS Emergency Response Organization to implement their Emergency Plan Implementing Procedures.

B.3 Demonstrate the ability of the Emergency Director to provide overall direction, including "command and control" by initiating, coordinating and implementing timely and effective decisions during a radiological emergency.

B.4 Demonstrate the ability to effectively transfer command and control of emergency response functions from the Control Room to the EOF.

B.5 Demonstrate the ability to maintain continuous staffing of the emergency facilities.

B.6 Demonstrate the capability of the PNPS Emergency Response Organization to interface with the Commonwealth of Massachusetts and the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, and Bridgewater; and the City of Taunton to effect a coordinated response to a radiological emergency adequate to ensure the protection of the health and safety of the public.

B.7 Demonstrate the ability to control access to emergency facilities.

B.8 Demonstrate the ability to provide a liaison at each participating offsite governmental emergency operations center (EOC).

B.9 Demonstrate adequacy of facilities and equipment to support emergency operations.

B.10 Demonstrate as appropriate, the ability to identify the need for, notify and request assistance from Federal agencies.

B.11 Demonstrate the availability of outside organizations who may be requested to provide assistance in an emergency.

B.12 Demonstrate the ability of corporate personnel to augment and support the plant staff.

B.13 Demonstrate the ability to notify on-call emergency response personnel and document acceptable response times.

Incident Assessment and Classification

C.1 Demonstrate the availability of methods, equipment, and expertise to make rapid assessments of the consequences of any radiological hazards, including the dispatch and coordination of Radiation Monitoring Teams.

C.2 Demonstrate the ability to recognize emergency action levels (EALs) and properly classify emergencies in accordance with the PNPS Emergency Plan Implementing Procedures.

Notification and Communications

D.1 Demonstrate the ability to notify offsite emergency organizations within 15 minutes of each emergency classification at PNPS.

D.2 Demonstrate the ability to notify the NRC of any emergency classification within one hour of the declaration.

D.3 Demonstrate the ability to notify PNPS Emergency Response Organization personnel.

D.4 Demonstrate the ability to develop and send timely follow-up information messages for offsite authorities.

D.5 Demonstrate the communications capability between the CR, TSC, OSC, EOF, and Media Center.

D.6 Demonstrate the communications capabilities between PNPS and the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, Bridgewater, the the City of Taunton, and the Commonwealth of Massachusetts via the Digital Notification Network (DNN). Tests need only verify operability of equipment.

D.7 Demonstrate the availability of a back-up means of communication.

D.8 Demonstrate the communications capabilities between PNPS and the Radiation Monitoring Teams.

D.9 Demonstrate the operability of communication equipment between PNPS and the State of Rhode Island. Tests need only verify operability of equipment.

D.10 Demonstrate the operability of communication equipment between the PNPS Control Room, EOF and NRC (FTS 2000). Tests need only verify operability of equipment.

Radiological Consequence Assessment

E.1 Demonstrate methods and techniques for determining the source term of releases or potential releases of radioactive material.

E.2 Demonstrate the adequacy of methods and techniques for determining the magnitude of the releases of radioactive materials based on plant system parameters and effluent monitors.

E.3 Demonstrate the ability to estimate integrated dose from projected and actual dose rates and to compare these estimates with the Environmental Protection Agency (EPA) Protective Action Guides (PAGs).

E.4 Demonstrate the ability to continuously monitor and control emergency worker radiation exposure, and implement exposure guidelines as appropriate.

E.5 Demonstrate the capability for radiological monitoring of personnel evacuated from the Protected Area.

E.6 Demonstrate the availability of respiratory protection, protective clothing and potassium iodide (KI) for onsite emergency response personnel.

E.7 Demonstrate the availability of a procedural mechanism to expeditiously evaluate risks and authorize emergency workers to receive doses in excess of 10 CFR 20 limits.

E.8 Demonstrate the capability for onsite contamination control.

E.9 Demonstrate the ability to decontaminate onsite personnel.

E.10 Demonstrate the capability to transport a contaminated injured person offsite.

E.11 Demonstrate the ability to evaluate the radiation exposure, radiation uptake, and contamination levels (external) of an accident victim.

E.12 Demonstrate the capability for onsite and offsite radiological monitoring, to include collection, analysis, and preparation for shipment of sample media (for example, water, vegetation, soil, snow and air) and provisions for communications and record keeping.

E.13 Demonstrate the ability to collect and analyze simulated elevated airborne or liquid samples as directed.

Radiological Consequence Assessment (Cont.)

E.14 Demonstrate the ability to use the Post-Accident Sampling System (PASS) to obtain fluid samples from each sample point at least once every six years. Sample points are:
- a. Reactor Water
- b. Torus Water
- c. Torus Atmosphere
- d. Drywell Atmosphere
- e. Reactor Building Atmosphere
- f. Main Stack Atmosphere

E.15 Demonstrate the ability to analyze fluid samples and provide the isotopic and chemical results of the analysis within three hours of the time the sample was first requested.

Protective Action

F.1 Demonstrate the ability to recommend protective actions to appropriate offsite authorities.

F.2 Demonstrate the ability to advise individuals onsite or in owner controlled areas of emergency conditions.

F.3 Demonstrate the capability to evacuate personnel from the Protected Area.

F.4 Demonstrate that provisions exist for alternate evacuation routes and relocation centers for Station personnel.

F.5 Demonstrate the ability to account for all individuals in the Protected Area within 30 minutes of the declaration of an evacuation.

F.6 Demonstrate the capability for onsite first aid.

F.7 Demonstrate the ability to conduct search and rescue procedures for persons identified as missing during accountability procedures.

Public Information

G.1 Demonstrate the operations of the Media Center and the availability of space for the media.

G.2 Demonstrate the ability to brief the media in a clear, accurate and timely manner.

G.3 Demonstrate coordination of information prior to its release.

G.4 Demonstrate the ability to establish and operate rumor control in a coordinated fashion.

Recovery Operations

H.1 Demonstrate the availability of procedures to support reentry and recovery:

a. De-escalation/termination from the emergency phase, and transition to the recovery phase.
b. Inform the Commonwealth of the opportunity to reduce the need for protective actions.

H.2 Demonstrate the ability to activate the Recovery Organization and continue assessment and response activities.

H.3 Demonstrate the availability of corporate technical support for planning and reentry/recovery operations.

ABBREVIATIONS

AC	Alternating Current
A/E	Architect Engineer
EAL	Emergency Action Level
ALARA	As Low As Reasonably Achievable
ADS	Automatic Depressurization System
APRM	Average Power Range Monitor
ARM	Area Radiation Monitor
ATWS	Anticipated Transient Without Scram
BOC	Beginning of Cycle
BWR	Boiling Water Reactor
CAM(s)	Continuous Air Monitor(s)
CFR	Code of Federal Regulations
CIV	Combined Intermediate (Intercept) Valve
CTMT	Containment
CST	Condensate Storage Tank
CRD	Control Rod Drive
CV	Control Valve
C/D	Cooldown
CS	Core Spray
CSCS	Core Standby Cooling Systems
CPS	Counts Per Second
DOE	Department of Energy
DG	Diesel Generator
DC	Direct Current
DW	Drywell
EAL(s)	Emergency Action Level(s)
EBS	Emergency Broadcast System
ECCS	Emergency Core Cooling System
ED	Emergency Director
ENS	Emergency Notification System
EOF	Emergency Operations Facility
EPIP	Emergency Plan Implementing Procedure
EPZ	Emergency Planning Zone
EPC	Emergency Planning Coordinator
EPI	Emergency Public Information
EOC	End of Cycle
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
HP	Health Physics
HEPA	High Efficiency Particulate Air (Filter)
HPCI	High Pressure Coolant Injection
HPN	Health Physics Network
HVAC	Heating, Ventilation, Air Conditioning
INPO	Institute of Nuclear Power Operations
IRAP	Interagency Radiation Assistance Program
IRM	Intermediate Range Monitor
KW	Kilowatt

KI	Potassium Iodide
LCO	Limiting Condition of Operation
LOCA	Loss of Coolant Accident
LPCI	Low Pressure Coolant Injection
LPRM	Local Power Range Monitor
MSIV	Main Steam Isolation Valve
MPC	Maximum Permissible Concentration
M-G	Motor-Generator
NPSH	Net Positive Suction Head
NRC	Nuclear Regulator Commission
NSSS	Nuclear Steam Supply System
OSC	Operations Support Center
PCIS	Primary Containment Isolation System
PAG	Protective Action Guide
PASS	Post Accident Sampling System
PIO	Public Information Officer
RBCCW	Reactor Building Closed Cooling Water
RMT	Radiation Monitoring Team
RCIC	Reactor Core Isolation Cooling
RECIRC	Reactor Recirculation System
RFP	Reactor Feed Pump
RPV	Reactor Pressure Vessel
RPS	Reactor Protection System
RWCU	Reactor Water Cleanup
RHR	Residual Heat Removal
RPM	Revolutions Per Minute
RPIS	Rod Position Information System
SRV	Safety Relief Valve
SAS	Secondary Alarm System
SRO	Senior Reactor Operator
SDV	Scram Discharge Volume
SRM	Source Range Monitor
S/D	Shutdown
SBGT	Standby Gas Treatment System
SBLC	Standby Liquid Control
SJAE	Steam jet Air Ejector
SV	Stop Valve
TSC	Technical Support Center
TAF	Top of Active Fuel
TIP	Traversing Incore Probe
TBCCW	Turbine Building Closed Cooling Water
TB	Turbine Building
TAG	Technical Assessment Group

OPERATION OF THE CONTROLLER NETWORK

The controller network is designed to give the controllers the ability to communicate between facilities without interfering with normal Drill/Exercise communications.

Calls on the network can be made between the EOF and each of the other PNPS emergency facilities. We do not have the ability to conduct conference calling.

LISTING OF TELEPHONE NUMBERS

LOCATION	NUMBER
Simulator	7699,7512
Simulator Instructor Facility	3019,7654
Control room (CR)	8460
Technical Support Center (TSC)	8738
Operations Support Center (OSC)	8726
Media Center (MC)	617-424-5619

DIALING INSTRUCTIONS TO THE EOF LEAD CONTROLLER

FROM	TO	OFFICE NUMBER	PORTABLE NUMBER
CR	EOF	73+6663	73+6671
SIMULATOR	EOF	73+6669	73+6671
TSC	EOF	73+6664	73+6671
OSC	EOF	73+6665	73+6671
MC	EOF	(508) 732-6666	(508) 732-6671

DIALING INSTRUCTIONS TO INDIVIDUAL FACILITIES

FROM	TO	NUMBER
CR, TSC, OSC, EOF,	PRU	(617) 424-XXXX
PRU	CR, TSC, OSC	(508) 732/830-XXXX

PILGRIM NUCLEAR POWER STATION

Emergency Preparedness Function Attendance Sheet

TYPE/NO: Evaluated Exercise 99-06 DATE: 12/07/99

LOCATION: _____ TIME: _____

NAME (Please Print)	SIGNATURE	SOC. SEC. #	PLAYER POSITION

DRILL/EXERCISE CHRONOLOGY RECORD

Drill/Exercise Controller
or Evaluator Name: _____ Date: 12/7/99

Drill/Exercise Number: Evaluated Exercise 99-06

Assigned Location and Function: _____

1. Drill controllers and evaluators use this sheet to record important events and comments during the drill/exercise.

2. The notes on this sheet should be used when completing the Controller/Observer Evaluation Report Sheet.

Time	Event/Comments

DRILL/EXERCISE CHRONOLOGY RECORD

Drill/Exercise Controller or Evaluator Name

12/7/99
Date

Page ___ of __

Time	Event/Comments

Entergy
Pilgrim Nuclear Power Station
Emergency Preparedness

ONSITE DRILL/EXERCISE
FACILITY LEAD CONTROLLER DEBRIEFING SUMMARY

Facility:_____ Facility Lead Controller: _____
(Sim, OSC, TSC, EOF, MC, CIC, CSC) Date: 12/07/99
Drill/Exercise No. 99-06

1. Were all drill/exercise objectives for your facility/group met? Yes No
Comments:_____

2. Did players perform their duties and utilize applicable procedures? Yes No
Comments:_____

3. Were there equipment or facility deficiencies? Yes No
Comments:_____

4. Did Emergency Response personnel activate the facilities in a timely manner? Yes No
TSC, OSC, EOF within 1 hour Yes No
MC, CIC within 2 hours Yes No
Comments:_____

5. Were dose assessment functions accomplished in and accurate and timely manner? Yes No N/A
Comments:_____

6. Were communications adequate and were they done in a timely manner Yes No
Initial notifications made within 15 minutes Yes No N/A
Followup notifications made hourly Yes No N/A
Comments:_____

7. Was command and control demonstrated adequately? Yes No
Did the Facility Leader maintain command and control of the facility by initiating, coordinating, and implementing timely and effective actions Yes No
Did the facility leader hold timely and informative staff briefings? Yes No
Comments:_____

8. Were there major problems encountered? Yes No
Comments:_____

9. Do you have other comments or areas for improvement?_____