BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
NRC/FEMA EVALUATED EXERCISE

(91-05-A)

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1.0 INTRODUCTION

1.1 Schedule:

A. Controller Briefing

Date: Tuesday December 10, 1991
Time: 0900 - 1600 hours
Place: Emergency Operations Facility (EOF)

B. NRC/Observer Briefing

Date: Wednesday December 11, 1991
Time: 1300 - 1500 hours
Place: Emergency Operations Facility (EOF)

C. Exercise

Date: Thursday December 12, 1991
Time: Unannounced

D. Exercise Critique

Date: Friday, December 13, 1991
Time: 0900 - 1100 hours
Place: Chiltonville Training Center
Conference Rooms 6A and 6B

1.2 Participants

All designated PNPS personnel assigned to the following locations:

- Control Room (CR)
- Technical Support Center (TSC)
- Operations Support Center (OSC)
- Emergency Operations Facility (EOF)
- Technical Assessment Group (TAG)
- Media Center (MC)
- Corporate Information Center (CIC)
- Station Security
- Town and Commonwealth 24 Hr Notification Points
- Massachusetts Emergency Management Agency (MEMA) and Massachusetts Department of Public Health (MDPH) Representatives in the PNPS EOF

2.0 SCOPE AND OBJECTIVES

2.1 EXERCISE SCOPE

- The 1991 Pilgrim Nuclear Power Station (PNPS) Emergency Preparedness Exercise, to be conducted on December 12, 1991 will test and provide the opportunity to evaluate the Boston Edison Emergency Plan and Emergency Plan Implementing Procedures. It will also test the emergency response organization's ability to assess, identify, classify and respond to emergency conditions and take appropriate actions to protect the health and safety of the public. In most cases, participants in this exercise vary from those who participated June 21, 1990. The exercise will not involve activation of the Boston Edison Corporate Radiological Emergency Plan (CREP).

- The scenario will simulate a sequence of events resulting in a radiological release into the environment. This release will be of sufficient magnitude to warrant mobilization of the Commonwealth of Massachusetts and designated local governments in response to the emergency.

- The exercise will also incorporate the Station's semi-annual health physics drill.

2.2 ONSITE OBJECTIVES

A. <u>Exercise Planning</u>

1. Conduct an exercise of the Pilgrim Nuclear Power Station Emergency Plan. (EP-AD-200, A.1).

2. Provide an opportunity for the Commonwealth of Massachusetts, and the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, Bridgewater, the City of Taunton and the Wellelsey Department of Public Works (DPW) to partially participate in an exercise. (EP-AD-200, A.2)

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 sequence of simulated events
   d. The time schedule of real and simulated initiating events
   e. The narrative summary. (EP-AD-200, A.3)

A. Exercise Planning (Con't.)

4. Conduct a critique of the exercise. (EP-AD-200, A.4)

5. Write the exercise report. (EP-AD-200, A.4)

6. Identify open items. (EP-AD-200, A.5)

B. Emergency Organizations, Support and Resources

1. Demonstrate the prompt activation, adequacy of the staffing and set-up, as appropriate, of emergency response facilities as follows:

   - o Control Room (CR)
   - o Technical Support Center (TSC)
   - o Operations Support Center (OSC)
   - o Emergency Operations Facility (EOF)
   - o Technical Assessment Group (TAG)
   - o Corporate Information Center (CIC)
   - o Media Center (MC). (EP-AD-200, B.1)

2. Demonstrate the capability of the PNPS Emergency Response Organization to implement their Emergency Plan Implementing Procedures. (EP-AD-200, B.2)

3. Demonstrate the ability of the Emergency Director to provide overall direction, including "command and control" by initiating, cocrdinating and implementing timely and effective decisions during a radiological emergency. (EP-AD-200, B.3)

4. Demonstrate the ability to effectively transfer command and control of emergency response functions from the Control Room to the Emergency Operations Facility (EOF). (EP-AD-200, B.4)

5. 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, Bridgewater, the City of Taunton and the Wellesley DPW to effect a coordinated response to a radiological emergency adequate to ensure the protection of the health and safety of the public. (EP-AD-200, B.6)

B. Emergency Organization, Support and Resources (Con't.)

6. Demonstrate the ability to control access to emergency facilities. (EP-AD-200, B.8)

7. Demonstrate the ability to provide a liaison at each participating offsite governmental Emergency Operations Center (EOC). (EP-AD-200, B.8)

8. Demonstrate, as appropriate, the ability to identify the need for, notify, and request assistance from federal agencies. (EP-AD-200, B.10)

9. Demonstrate the ability to notify on-call emergency response personnel and document acceptable response times. (EP-AD-200, B.13)

C. Incident Assessment and Classification

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. (EP-AD-200, C.1)

2. Demonstrate the ability to recognize emergency action levels (EALs) and properly classify simulated emergencies in accordance with the PNPS Emergency Plan Implementing Procedure. (EP-AD-200, C.2)

D. Notification and Communications

1. Demonstrate the ability to notify offsite emergency organizations within 15 minutes of each emergency classification at PNPS. (EP-AD-200, D.1)

2. Demonstrate the ability to notify the NRC of each emergency classification within one hour of the declaration. (EP-AD-200, D.2)

3. Demonstrate the ability to notify PNPS Emergency Response Organization personnel. (EP-AD-200, D.3)

4. Demonstrate the ability to develop and send timely information messages for offsite authorities. (EP-AD-200, D4)

5. Demonstrate the communications capability among the Control Room, TSC, OSC, EOF, TAG, CIC and Media Center. (EP-AD-200, D.5)

D. Notification and Communications (Con't.)

6. Demonstrate the communications capabilities between PNPS and the EOCs for the towns of Carver, Duxbury, Kingston, Marshfield, Plymouth, Bridgewater, the City of Taunton, the Wellesley DPW and the Commonwealth of Massachusetts EOC. (EP-AD 200, D.6)

7. Demonstrate the adequacy of communications capabilities between PNPS and the Radiation Monitoring Teams. (EP-AD-200, D.8)

8. Demonstrate the operability of communication equipment between the PNPS Control Room, TSC, EOF, and NRC Region I (ENS). (EP-AD-200, D.10)

E. Radiological Consequence Assessment

1. Demonstrate methods and techniques for determining the source term of releases or potential releases of radioactive material. (EP-AD-200, E.1)

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. (EP-AD-200, E.2)

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). (EP-AD-200, E.3)

4. Demonstrate the ability to continuously monitor and control emergency worker radiation exposure, and implement exposure guidelines as appropriate. (EP-AD-200, E.4)

F. Protective Action

1. Demonstrate the ability to recommend protective actions to appropriate offsite authorities. (EP-AD-200, F.1)

G. Public Information

1. Demonstrate the operations of the Media Center and the availability of space for the media. (EP-AD-200, G.1)

2. Demonstrate the ability to brief the media in a clear, accurate, and timely manner. (EP-AD-200, G3)

3. Demonstrate coordination of information prior to its release. (EP-AD-200, G.3)

4. Demonstrate the ability to establish and operate rumor control in a coordinated fashion. (EP-AD-200, G.4)

H. Recovery Operations

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. (EP-AD-200, H.1)

3.0 EXERCISE GUIDELINES

3.1 EXERCISE PARTICIPANTS

3.1.1 The participants in the exercise will include the following:

A. Boston Edison Company

1. Control Room
2. Technical Support Center
3. Operations Support Center
4. Emergency Operations Facility
5. Media Center
6. Corporate Information Center
7. Technical Assessment Group

B. Commonwealth of Massachusetts

1. State Emergency Operations Center (Framingham)
2. Emergency Operations Facility
3. State Field Teams
4. Media Center
5. State Police Troop D Headquarters
6. State Police Traffic and Access Control Points
7. Massachusetts Civil Defense Agency Area II Emergency Operations Center
8. Wellesley Reception Center

C. Carver Emergency Response Organization

D. Duxbury Emergency Response Organization

E. Kingston Emergency Response Organization

F. Marshfield Emergency Response Organization

G. Plymouth Emergency Response Organization

H. Bridgewater Emergency Response Organization

I. Taunton Emergency Response Organization

3.2 EXERCISE ORGANIZATION

3.2.1 The organization for this exercise will consist of the Lead Exercise Controller, the Controller/Evaiuators, the Evaluators, the Observers, and the Players as follows:

A. Lead Exercise Controller

The Lead Exercise Controller is responsible for the conduct of a successful Exercise and will coordinate Exercise preparations including the development of the scenario and messages. The Lead Exercise Controller will ensure the safe conduct of the Exercise and is responsible for resolution of any scenario-related interfacility questions, as well as the assurance that the conduct of the Exercise does not adversely impact the operation of the station. The Lead 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.

B. Controller/Evaluators

The Controller/Evaluators are personnel selected to deliver Exercise Messages to designated players at specific times and places during the Exercise. They will inject or deliver additional messages, as may be required, to initiate appropriate player response to keep the Exercise action moving according to the scenario and to ensure the demonstration of all Exercise objectives. The Controller/Evaluators will be briefed on the instructions contained in this Exercise Manual.

As Controller/Evaluators, they are assigned to observe the 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 on 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 Exercise Controller prior to the scheduled critique. They will evaluate Exercise performance on the basis of standards or requirements contained in the Corporate and PNPS Emergency Plans, EOP's 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. The Lead Controller/Evaluator is responsible for all Controller/Evaluator, Evaluator, Observer and Observer/Evaluator activities for that facility and, as appropriate, its associated teams. Controller/Evaluators for teams or sub-areas of a facility report to the Lead Controller/Evaluator of that facility/functional area.

C. Exercise Players

The Players include BECo 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 exercise is largely dependent upon player reaction, player knowledge of the Emergency Plans and Implementing Procedures, and an understanding of the Exercise objectives. Initial conditions will be provided by Controller/Evaluators as appropriate. The Exercise Players are responsible for initiating actions during the Exercise in accordance with procedures, responsibilities, and tasks outlined for their particular function in the Emergency Plan and Implementing Procedures. Each Exercise Player will advise their Controller/Evaluator prior to simulating required emergency actions to ensure that credit is awarded.

Exercise Players should not to be excessively concerned with the mechanics of the scenario. This 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. Exercise Players should note any needed improvements that come to their attention during the Exercise and submit them to the appropriate Controller/Evaluator at the conclusion of the Exercise.

D. Observer/Evaluators

Observer/Evaluators include utility members and/or members of either the NRC, INPO, or FEMA evaluation teams and will have prior knowledge of the Exercise scenario. At their assigned locations they will observe the Exercise and prepare evaluations to be presented at post-Exercise critiques.

E. Observers

Observers from BECo and other organizations may be authorized, on a limited basis, to participate in the Exercise solely for the purpose of observing Exercise activity for personal education. Observers will report initially to the Onsite Emergency Preparedness Division Manager for credential review and authorized admittance. They will be provided with 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 BECo or organization affiliation if applicable. Requests to participate as Observers will be submitted to the Onsite Emergency Preparedness Division Manager no later than two weeks prior to the exercise.

3.3 EMERGENCY RESPONSE FACILITIES

3.3.1 During this Exercise, the following Corporate and PNPS Emergency Response Facilities will be activated to manage, assess and support the BECo and PNPS response to the simulated emergency situation.

A. Control Room

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 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 Control Room is located on the 37' level of the turbine building.

The equipment available in the Control Room gives 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 plant.

B. Technical Support Center (TSC)

The Technical Support Center is located within the Protected Area on the first floor of the Administration Building. A separate office area within the Technical Support Center is available for NRC. This office contains telephone communications equipment. The TSC is of sufficient size to accommodate approximately 25 people. The Technical Support Center 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 under Alert, Site Area Emergency, and General Emergencies. A closed circuit television monitor transmits pertinent instrument readings from the Control Room to the Technical Support Center. This monitor is controlled by TSC personnel and may be used to view instrumentation throughout the control room.

The Emergency Plant Manager works from the Technical Support Center. Nuclear Watch Engineer (NWE) maintains responsibility for directing operations in the Control Room. 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 plant paging system and the plant internal telephone system to further enhance communications. The TSC has direct communication with the control room, the EOF, and NRC Headquarters in Bethesda, Maryland, and the Regional Office in King of Prussia, Pennsylvania.

C. Operations Support Center (OSC)

An Operations Support Center has been established in the new Administration Building adjacent to the TSC. Operations support personnel (non-Control Room shift personnel) report to this location when not actively engaged in emergency assignments. The communications supplied permit assignment of duties to operations support personnel by Shift Supervision and/or the Emergency Plant Manager without the necessity for support personnel entrance into the Control Room. In addition, direct communication with the Technical Support Center is possible. Necessary equipment is available throughout the plant and may be accessed by personnel assigned to the OSC.

D. 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 BECo controlled and operated facility. During an emergency, the EOF is staffed and equipped to provide for the management of the overall BECo 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 BECo 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 functions of the EOF are to provide information for management of the overall Emergency response to an accident which results in Alert, Site Area or General Emergency; provide radiological and meteorological data to assess offsite doses; provide information to EOF personnel to aid them in informing the NRC and Commonwealth and local emergency response agencies about conditions potentially affecting the public in accordance with the Emergency Plan.

E. Media Center

The Media Center is located at the Memorial Hall in Plymouth, approximately five (5) miles northwest of the Pilgrim Station. The Media Center is a joint facility, staffed and operated by Boston Edison Company, MEMA, MDPH, and the five towns located within the ten mile emergency planning zone (EPZ). The primary purpose of the facility is to provide a location for coordination of public information prior to its release to the news media. The communications capabilities include standard telephones, ring-down telephone link to the EOF, computer link to the EOF and CIC and telecopy links to all offsite agencies.

The Media Center provides the news media with a single location to receive information about the emergency developments at the Pilgrim Station, local, Commonwealth and federal offsite response. The Center includes work areas for BECo, each offsite agency, and the news media. There is a briefing area for news conferences.

F. Corporate Information Center

The Corporate Information Center (CIC) is located at the Boston Edison Company (BECo) headquarters in the Prudential Center, Boston, Massachusetts. The primary purpose of the CIC is to provide emergency information to BECo employees, customers and governmental agencies. The emergency teams responsible for rumor control are located at this facility. They include the Public Concern Team (responsible for responding to calls from the general public, the Media Phone Teams (responsible for responding to calls for monitoring the news media reports for rumors or misinformation). The CIC receives information about the emergency from the Media Center and reports rumors, misinformation and trends of inquiries to the Media Center for action.

G. Technical Assessment Group

The Technical Assessment Group (TAG) is located at the BECo Nuclear Engineering Offices in Braintree, MA. The TAG serves to provide technical and engineering support to the TSC staff onsite. The TAG Coordinator is responsible for coordinating activities and requests from the TSC and reports directly to the TSC Supervisor. The TAG is equipped with dedicated communications to the EOF, TSC and Control Room.

3.4 EXERCISE CONDUCT

In the development of an accident sequence which is severe enough to adequately test the emergency response capabilities of participating organizations, it is necessary to postulate extremely unrealistic situations and multiple failures of redundant reactor protection functions and systems.

The objective of this Exercise is to demonstrate the ability of the participating organizations to protect the public, and appropriately respond to this highly improbable sequence of events.

Emergency response actions during the simulated emergency will include recognition and classification of emergency conditions, assessment of onsite/offsite radiological consequences, alert/notification and mobilization of emergency response organizations, activation/operation of emergency response facilities and equipment, implementation of in-plant corrective actions, preparation of reports, messages, and recordkeeping, and recommendation of protective actions.

The conduct of the Exercise will demonstrate the effectiveness of organizations, personnel, emergency response functions, and PNPS Emergency Plan and Implementing Procedures.

The CR and the EOF are the central points for distribution of exercise messages. Simulated plant parameters will be provided to the control room operators using messages and plant data sheets. Radiological and meteorological data presented in Sections 8.0 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 Exercise Controller may interject other information or change a message to ensure that the Exercise progresses as planned.

The contingency messages are to be delivered to the designated players upon completion of a specific action or accomplishment of certain previously specified criteria. The information contained in the white controller notes in Section 6.0 and information in Sections 7.0 and 8.0 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 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 corporate and site implementing procedures.

Since it is required that the emergency Exercise test offsite emergency activities it was necessary to postulate non-credible situations. The Players should accept the 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.

3.4 EXERCISE CONDUCT (Cont.)

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 Exercise scenario. If directed by these announcements, a site evacuation will be performed.

The postulated accident conditions will 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 exercise.

Participants will perform appropriate radiological monitoring and dose assessment activities. Onsite BECo emergency response personnel shall use required protective clothing, if appropriate.

Participation by BECo 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 offsite segments of the Exercise that depend on proper messages between the Control Room, TSC, OSC, and EOF, notification messages between these contact points will be reviewed by the Controller/Evaluators prior to their issuance. The Controller/Evaluator may inject other information or change a message to ensure that the Exercise progresses as planned. Only Lead Facility Controllers can modify Exercise Messages or initiate Free Play Messages.

3.5 EVALUATION AND CRITIQUE

The Exercise will be observed by Controllers/Evaluators who have the qualifications to evaluate the activity in their assigned locations. Evaluation of the 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 Exercise Controller.

Immediately following the Exercise, the Exercise Coordinator will conduct a Lead Controller de-briefing. Negative and positive items will be identified for inclusion in the Exercise Report.

3.6 EXERCISE REPORT

An Exercise Report shall be issued in accordance with the Emergency Plan and Departmental Administrative Procedures for review within 30 working days following the exercise.

The designated report reviewer(s)/author(s) will determine whether any deficiencies and/or corrective actions are required. Approval of identified corrective actions are required.

3.7 PLAYER INSTRUCTIONS

3.7.1 The success of the 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 Observer/Controller. Those actions that are to be simulated must be brought to the attention of the Observer/Controller to ensure that credit is awarded. 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 Exercise; this is especially true late in the Exercise or when activity is limited.
- Be courteous and professional at all times.
- Identify yourself by name and function to the Observer/ Controller.
- Elements of Exercise play will be introduced through use of controlled Exercise 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 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 Dave Landahl, Onsite Emergency Preparedness Division Manager, 118 Long Pond Road, or call 747-9454.

- CONTROLLERS serve an active role in the 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 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 BECo critique.

- NRC Evaluators will be critiquing the 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 loud, 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 that "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 Exercise. However, normal radiological control practices shall be followed throughout the course of the Exercise.

- Several plant and radiological parameters will be available upon request at any time or at predetermined times during the Exercise. These plant parameters will be available in the Control Room.

- Only selected parameters and readings will be provided. The selected information will be sufficient to make decisions in accordance with BECo plans and procedures.

- DO NOT BECOME OVERLY CONCERNED WITH THE MECHANICS OF THE REACTOR OR THE CAUSE OF THE ACCIDENT. THIS EXERCISE IS DESIGNED TO TEST BECo PLANS AND PROCEDURES AND IS NOT CONCERNED WITH ESTABLISHING THE PROBABILITY, FEASIBILITY OR DETAILED MECHANICS OF THE SIMULATED ACCIDENT.

3.7 PLAYER INSTRUCTIONS (Con't.)

- There will be one or more Controllers at each important location. Controllers will provide information and clarification on which actions are to be simulated or are outside the scope of this Exercise in order to keep the Exercise progressing in accordance with the scenario. Controllers will also observe all aspects of the Exercise to prepare an in-house evaluation of plans, procedures and training.

- Any participants outside the Media Center or plant property who encounter members of the news media during the Exercise should avoid responding to any questions regarding the simulated events or the success of the Exercise. All press inquiries should be directed to the Media Center at Memorial Hall, in Plymouth.

- 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 Exercise activity.

- Any BECo motor vehicle response to this 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 Exercise, Exercise Participants are to cooperate as directed by the Security Force; Security representatives are to be prudent and tolerant in their actions.

- While Exercise participants are to inject as much realism into the Exercise as possible, the safety of the plant and personnel shall not be jeopardized.

3.8 OBSERVER GUIDELINES

- Observers should not participate in the Exercise nor interfere in the actions taken by the 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 Exercise. Do not discuss these with the participants.

- Identification badges/arm-bands/etc. are to be worn visibly by the Observers. Identification devices should be returned at the end of the Exercise or critique. Identify yourself to the Exercise Controllers.

3.8 OBSERVER GUIDELINES (Con't.)

- Observers should enter emergency facilities via their main entrance and check in with security personnel.

- Observers requiring emergency facility access during the Exercise should contact Dave Landahl, Boston Edison Onsite Emergency Preparedness Division Manager, 118 Long Pond Road, or call 747-9455 two (2) weeks prior to the Exercise.

4.0 CONTROLLER/EVALUATOR GUIDELINES

4.1 GENERAL INFORMATION

Each Controller/Evaluator should be familiar with the following:

- The basic objectives of the Exercise.
- The assumptions and precautions being taken.
- The Exercise scenario, including the initiating events and the expected course of action to be taken.
- The various locations that will be involved and the specific items to be observed at those locations.
- The evaluation checklists provided herein.

4.2 PRECAUTIONS AND LIMITATIONS

This section provides guidance for all Exercise Controllers and Evaluators for the conduct of this Exercise. Prior to initiation of the Exercise, a briefing will be held to review the entire Exercise process with all the exercise Controllers/Evaluators identified in this manual.

- Should, at any time during the course of the conduct of this exercise, an actual emergency situation arise, all activities and communications related to the Exercise will be suspended. It will be the responsibility of any Exercise Controller/ Evaluator that becomes aware of an actual emergency to suspend Exercise response in his/her immediate area and to inform the Lead Exercise Controller of the situation. Upon notification of an actual emergency, the Lead Exercise Controller will notify all other Controllers/Evaluators to suspend all Exercise activities. The Lead Exercise Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the exercise.
- Should, at any time during the course of the conduct of this exercise, an Exercise Controller/Evaluator witness an exercise participant undertake any action which 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 Exercise Controller and informing him of the situation. The Lead Exercise Controller will make a determination at that point whether to continue, place a temporary hold on, or terminate the exercise.

4.2 PRECAUTIONS AND LIMITATIONS (Con't.)

- Manipulation of any plant operating system, valves, breakers, or controls in response to this Exercise are only to be simulated. There is to be no alteration of any plant operating equipment, systems, or circuits during the response to this exercise.

- No pressurization of fire hoses, discharging of fire extinguishers, or initiation of any fire suppression systems will be required for the 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 Exercise must begin and end with the statement, "This is a drill." Should a Controller/Evaluator witness an 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 BECo motor vehicle response to this Exercise, should 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 Exercise, Exercise participants are to cooperate as 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 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 Exercise activities from believing that an actual emergency exists. Any Exercise Controller/Evaluator who is aware of an individual or group of individuals in the immediate vicinity who may have become alarmed or confused about the situation, should approach that individual or group and explain the nature of the exercise and its intent.

- If you are entering nuclear station radiation 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

4.3 CONTROLLER/EVALUATOR INSTRUCTIONS

- 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 exercise commencement. All watches and clocks will be synchronized with the Lead Exercise Controller as part of the communications testing.

- All Controller/Evaluators will comply with instructions from the Lead Exercise Controller.

- Each Controller/Evaluator will have copies of the messages controlling the progress of the Exercise scenario. No message shall be delivered out of sequence or other than as written unless specifically authorized by 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 met.

- Each onsite Controller/Evaluator will have copies of plant data sheets. Data sheets will be distributed only in the Control Room.

- 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 exercise participants are expected to obtain information through their own organizations and Exercise 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.

4.4 EVALUATION INSTRUCTIONS/PACKAGES

Each Controller/Evaluator will take detailed notes regarding the progress of the Exercise and response of the Exercise participants at their assigned locations. Each Controller/Evaluator should carefully note the arrival and departure times of participants, the times when major activities or milestones occur, and problem areas encountered.

The standards below should be used by the controller/evaluator 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:

4.4 EVALUATION INSTRUCTIONS/PACKAGES

Satisfactory - Personnel and equipment performed as required. Any errors or problems were minor and easily correctable.

Marginal - Personnel and equipment generally performed as expected. 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 or not observed.

NQ - Not Observers

4.5 EVALUATION COMMENTS

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 action levels.
- Timely activation and staffing of each emergency facility.
- Familiarity of personnel with appropriate emergency instructions, duties and responsibilities.
- Timely notification of plant, corporate, local, Commonwealth 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 recordkeeping.
- Utilization of correct communications procedures 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 initiation of onsite protective/corrective actions.
- Development of protective action recommendations.
- Radiological surveys and assessment of plant damage and hazardous conditions performed.

4.5 EVALUATION COMMENTS (Con't.)

- Timely request of emergency support services.
- Coordinated, 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.

Controllers/observers will record their comments for the purpose of reconstructing the exercise chronology and preparing a written evaluation of the exercise.

4.6 EVALUATION PACKAGES

The following Evaluation packages are to be used by the appropriate Controllers/Observers to evaluate the 1991 NRC/FEMA Exercise:

Control Room
Technical Support Center
Operations Support Center
Security Control
Environmental Monitoring Team
Onsite Monitoring Team
Emergency Operations Facility
Media Center
Technical Assessment Group
Radiation Monitoring Teams
Security
Corporate Information Center

4.7 EVALUATION PROCESS

All evaluators shall maintain an 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 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.

Each Evaluator shall also complete an evaluation form for the facility or function to which he (she) is assigned.

Each Lead Controller shall de-brief the evaluators for whom he/she is responsible and compile an Exercise Evaluation Report Sheet for the facility. This Evaluation Report Sheet shall reflect an overall assessment of the performance of that facility, and in five (5) specific categories. Significant weaknesses or deficiencies shall be itemized in the "Report" section to ensure adequate follow-up attention is devoted to resolution of the problem. Significant positive items should be included here as well.

The formal Post-Exercise Critique shall be conducted by the Exercise Coordinator, with each Lead Controller providing an evaluation of his/her facility.

4.8 CONTROLLER ORGANIZATION

The personnel assignments for the Onsite Controller organization are as follows:

AREA OF RESPONSIBILITY	NAME
Lead Exercise Controller Onsite Lead Exercise Controller	Jerrie Morlino
Offsite Lead Controller	Albert Samano
Corporate Lead Controller	
Control Room (CR)	
Lead	Kelly Walker
Technical Support Center (TSC)	
Lead	Bill Clancy Curt Grevenitz Nick DiMascio John McEachern
Operations Support Center (OSC)	
Lead	Jack Spangler J. J. Posselt Bill Mauro Andy Lopes Mark Lemieux Michael Trask Pat Tilson Bruce Eldredge
Emergency Operations Facility (EOF)	
Lead	Dave Landahl Scott McCain George Cassell Bob Jickling Jack McCarthy Paul Cormier
Technical Assessment Group (TAG)	
Lead	Pat Doody Don Whitney

AREA OF RESPONSIBILITY	NAME
Media Center (MC)	
Lead	Theresa Kelley Elaine Robinson Dave Tarentino
Corporate Information Center (CIC)	
Lead (20th Floor) 334rd Floor	Peter Bachman Cherie Fuller-Miles Karen Lea
Simulators	
Control Room Rad Data	
Phone Cell	Donna Cunio Mary Clancy Anita Mosher Joanne Dehay Louise Galley

4.9 ABBREVIATIONS

Assignment	Name
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)
CAS	Central Alarm Station
CFR	Code of Federal Regulations
CIC	Corporate Information Center
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 Participate Air (Filter)
HPCI	High Pressure Coolant Injection

Assignment	Name
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 Permissable Concentration
M-G	Motor-Generator
NPSH	Net Positive Suction Head
NRC	Nuclear Regulatory 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

NARRATIVE SUMMARY
91-05A

Initial Conditions

The reactor is operating at 100% power. The plant has been operating for the past 221 days. Routine surveillances have been completed. The "A" diesel is out of service for major maintenance. The Black Out Diesel Generator(BODG) is out of service for an engine oil system flush and oil replacement. Salt Service Water Pump P-208B is out of service due to high vibration. Hydrogen water chemistry is out of service. Scheduled surveillances include 8.M.1-3 APRM Calibration and Functional Test and 8.4.1 Standby Liquid Control Pump Operability and Flow Rate Test. Reactor coolant sampling is in progress. The weather is clear and sunny with light winds out of the southeast.

Sequence of Events

The scenario is initiated by providing the plant operating staff indications of combustion in the off-gas after condenser. The off-gas radiation monitor readings shall slowly increase as the radioactive off-gas is concentrated in the off-gas line. The off-gas system will indicate low flow and have high off-gas temperatures. Results from the daily chemistry samples will indicate increased conductivity of reactor, condensate and hotwell water.

Upon recognition of the off-gas combustion, operators should implement abnormal event procedure 2.4.142 "Abnormal Recombiner Operation". Actions to stop the combustion will not be successful. Actions to initiate a controlled shutdown should be taken. Off-gas radiation levels will continue to increase. Upon receipt of the off-gas hi-hi radiation alarm, actions to scram and isolate the reactor should be taken upon expiration of the off-gas timer as specified in procedure 2.4.40 "Rapid Increase in Off-gas Activity." An Unusual Event should be declared based on the high off-gas radiation levels (EAL# 1.2.1.1). Upon manual isolation of the reactor, one inboard main steam line isolation valve shall fail to go closed. Any attempt to initiate the High Pressure Coolant Injection System (HPCI) for pressure or level control shall result in

it's turbine tripping on overspeed. Reactor pressure control shall be maintained via safety relief valve and Reactor Core Isolation Cooling (RCIC) operation. Should any attempt be taken to re-establish the main condenser as a heat sink, the main turbine bypass valves shall fail to operate.

Approximately twenty minutes after declaration of the Unusual Event, indication will be provided of a total loss of Reactor Building Closed Loop Cooling Water(RBCCW). The RBCCW suction crosstie line will fail causing both loops of RBCCW to drain. Temperatures of RBCCW heat loads shall increase. Drywell pressure and temperature will begin to increase rapidly due to the loss of drywell cooling. Torus water temperature shall also increase due to the loss of torus cooling. An Alert should be declared based upon the inability to establish and maintain cold shutdown conditions (EAL# 6.2.2.2) and/or inability to maintain drywell pressure below 2.5 psig (EAL #3.2.1.2). Actions to vent and spray the drywell should be taken.

Approximately one hour and forty minutes after declaration of the Alert, indication will be provided of the rapid depressurization of the Reactor Pressure Vessel (RPV) and high steam tunnel temperatures on the steam leak detection system. This shall be the result of the rupture of the unisolated main steam line in the steam tunnel. A Site Area Emergency should be declared based on either the existence of an unisolable steam leak outside primary containment (EAL# 6.2.2.3) or exceeding the maximum safe operating temperatures in two or more areas of the reactor building (EAL# 4.2.1.3).

Approximately one and a half hours after declaration of the Site Area Emergency (SAE), all offsite power shall be lost. The "B" diesel generator will trip, resulting in a complete loss of alternating current (AC) power. RPV water level will decrease due to boil-off out the main steam line break. Alternate RPV injection systems should be attempted to be lined up. Drywell temperatures shall exceed design due to loss of containment spray capability. RPV water level will eventually drop below the top of active fuel and severe fuel damage shall result. A General Emergency should be declared based on the fact that the RPV is depressurized and no source of injection can be established into the RPV (EAL# 2.1.2.4). After a sufficient amount of time for fission product inventory to build up in the reactor building has passed, at least one emergency bus will be allowed to be re-energized by any of the following: refilling the BODG oil sump and starting and loading the BODG, restoring the "B" EDG to service by replacing the governor or the return of offsite power to the Startup Transformer.

This will allow the flooding of the RPV with a low pressure Emergency Core Cooling System and restart of the Standby Gas Treatment System (SBGT). Fission product release via SBGT and the stack shall exceed that requiring a General Emergency (5.5E5 cps).

After sufficient time has elapsed for fission product release, RPV pressure and the resulting release rates will be low enough to consider the release effectively terminated.

Actions should be pursued to shut the open main steam line isolation valve, re-enter the reactor building and restore RBCCW flow.

The exercise will be terminated once all exercise objectives have been demonstrated.

TIMELINE

Elapsed Time	Event
-0020	Initial conditions established
-0005	Announcement of the 1991 NRC/FEMA Full-scale Exercise
0000	Provide initial indications of combustion in the off-gas after condenser. Off-gas Hi radiation alarm.
0005	Chemistry Technician reports results of reactor coolant sample. Procedure 2.4.142 "Abnormal Recombiner Operation" implemented
0020	Actions to initiate controlled shutdown
0025	Off-gas Hi-Hi radiation alarm
0038	Reactor manual scram and reactor isolation in accordance with Procedure "Rapid Increase in Off-gas Activity".
0039	The inboard Main Steam Line Isolation Valve (AO-203-1D) fails to close, declare **Unusual Event** based on EAL#1.2.1.1
0040	HPCI turbine trip on overspeed. Safety Relief Valves (SRV's) manually cycled to maintain RPV pressure
0050	Any attempt to re-establish main condenser as a heat sink will result in the main turbine bypass valves failing to operate
0055	Continue to cooldown via SRV's and RCIC operation. Torus water temperature slowly increasing. Attempts to restart HPCI are unsuccessful. RPV water level maintained via RCIC and/or Feedwater/Condensate.

Elapsed Time	Event
0120	RBCCW suction crosstie line ruptures Low RBCCW head tank alarms on both A & B RBCCW loops. Implement Procedure 2.4.42 "Loss of RBCCW"
0130	Drywell temperatures and pressure increasing rapidly. Torus water temperature increasing rapidly.
0140	Containment venting initiated and ECCS systems start. Drywell pressure cannot be maintained <2.5 psig and cold shutdown conditions cannot be established. Declare **Alert** based on either EAL# 3.4.1.2 or EAL# 6.2.2.2. Non-essential contractors, visitors and handicapped personnel should be directed to leave the site(simulated).
0150	Continue to cooldown and depressurize RPV via SRV's/RCIC
0200	Drywell temperatures and pressures continue to increase steadily. Personnel sent to investigate loss of RBCCW will find the complete failure of the RBCCW suction crosstie line and the auxiliary bay floor flooded.
0320	Indication provided of the rapid depressurization of the RPV. Steam Leak Detection System will alarm and indicate area temperatures in the steam tunnel and "A" RHR valve room in excess of the Maximum Safe Operating Values. This will be the result of the "D" main steam line rupturing at the drywell penetration. RCIC trips on low pressure, if operating.
0325	A **Site Area Emergency** should be declared based on either EAL# 6.2.2.3 or EAL# 4.2.1.3. The site should be evacuated of all non-essential personnel and accountability demonstrated (simulated).

0400 Attempts at minimizing reactor building temperatures and steam released from the RPV should be taken by increasing injection into the RPV via condensate.

0430 Maintenance teams should be dispatched to attempt repair and restoration of RBCCW.

0455 Indication of a complete loss of off-site power shall be provided. The "B" Diesel Generator trips.

0510 RPV level steadily decreases as reactor coolant boils-off out the steam line break.

0540 RPV water level drops to top of active fuel.

0555 RPV is depressurized and no mechanism of adequate core cooling can be established by injection into the RPV. A **General Emergency** should be declared based on EAL# 2.1.2.4.

0600 RPV water level drops below MZIRWL (-169 in.), fuel damage begins

0610 AC power restored to at least one emergency bus (A-5 or A-6), SBGT restarted and RPV reflooding initiated. Severe fuel damage exists with a large fission product inventory in coolant and reactor building. Main stack radiation levels exceed that requiring a General Emergency.

0625 Attempts at restoring RBCCW system flow are ongoing. Main stack effluent radiation monitors indicate maximum release rate.

0640 Actions should continue to shut the open main steam isolation valve and to restore RBCCW system flow.

0745 RPV water level is restored and RPV flooded sufficiently to reduce RPV pressure to effectively terminate the release. If RBCCW is

restored, the plant should be placed into shutdown cooling or RWCU placed in recirculation mode.

0800 Terminate exercise if all objectives have been met.

All facility Lead Controllers are to read the following drill ground rules to their respective facility staff as soon as they are available.

DRILL GROUND RULES

All drill participants are required to observe the following Drill Ground Rules for the entire duration of the drill. If you have any questions, ask your Drill Observer/Controller for clarification.

1. Ensure that all communications indicate that this is only a drill. Make a positive statement that this is a drill related message at the beginning and end of all messages or conversations. If communication lines are kept open for extended periods, periodically repeat the caution. This is especially critical when transmitting messages over communication facilities that are monitored by non-BECo personnel.

2. Take no actions that affect the unit or non-drill related operations.

3. Take immediate action(s) to restore safe operations if an unsafe condition exists. Ignore the drill situation if actual safety becomes a concern.

4. Use only information provided in accordance with the Drill Ground Rules or derived from from approved procedures. Do not improvise information.

5. Express simulations and verifications in spoken words.

PLANT CONDITIONS THE DAY BEFORE EXERCISE

The plant is operating at 100% power and has been operating for the past 220 days. Surveillances in progress include: 8.9.1 Emergency Diesel Generator surveillance on the "B" Diesel Generator, 8.5.1.1 Core Spray System Operability and 8.5.2.2.1 and 8.5.2.2.2 LPCI System Pump and Valve Operability. The "A" Diesel Generator is out of service due to major maintenance (seized turbocharger). The BODG is out of service for engine oil flush and replacement. Salt Service Water Pump P-208B is out of service due to high vibration. Hydrogen water chemistry is out of service.

Identified drywell leakage remains constant at 2.1 gpm. High pressure is expected to dominate the area for the next few days. Winds are light from the southeast. A cool clear day is forecast for tomorrow.

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-1

ELAPSED TIME -0020 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

INITIAL PLANT CONDITIONS

The reactor is operating at 100% power. The plant has been operating for the past 221 days. Routine surveillances have been completed. The "A" diesel is out of service for major maintenance. Salt Service Water Pump P-208D is out of service due to high vibration. The BODG is out of service for engine oil flush. Scheduled surveillances include 8.M.1-3 APRM Calibration and Functional Test and 8.4.1 Standby Liquid Control Pump Operability and Flow Rate Test. Reactor coolant sampling is in progress.

INITIAL METEOROLOGICAL CONDITIONS

The weather is clear and sunny with light winds out of the southeast. The temperature is 48 degrees.

Refer to the attached sheet for plant parameter data and equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-1

ELAPSED TIME -0020 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

This message is to be presented when the Control Room Staff is in place.

ANTICIPATED PLAYER RESPONSE:

Players should become familiar with the format and content of the message, plant parameter data and radiation data sheets. They should compare these new plant conditions with the information presented yesterday as the status at the end of the day. All of the Control Room Staff should be provided with this information.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-2

ELAPSED TIME -0005 TIME

****

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

****

MESSAGE FOR: Watch Engineer

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 1991 NRC/FEMA EVALUATED EXERCISE. All announcements preceded by "THIS IS A DRILL" are for designated Exercise Participants. All personnel are to limit the use of the Gai-tronics until the exercise has been terminated.

REPEAT MESSAGE

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-2

ELAPSED TIME -0005 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the Watch Engineer to initiate the 1991 NRC/FEMA EVALUATED EXERCISE.

ANTICIPATED PLAYER RESPONSE:

The Control Room Operator will make the announcement on the Gai-tronics system.

COMMENTS:

********** **********

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-3

ELAPSED TIME 0000 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following control room annunciator(s) are received:

Panel 903 Right G-2 Offgas Hi Radiation

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-3

ELAPSED TIME 0000 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Upon investigation by the plant operators, provide the following information:
Off-gas temperature (OGS004) - 230 degrees
Off-gas temperature (TI-3726) local - 230 degrees
Off-gas flow (OGS002) - 0 SCFM
Off-gas flow (FI-3725) Panel C-2 - 0 SCFM
Off-gas flow (FR) Panel C902 - 0 SCFM
Recombiner inlet and outlet temperatures the same (350 degrees).
Low hydrogen concentration upstream of the AOG (0%).

Instruments on Panels 902 and 910 indicate a slow but steady increase in offgas radiation levels.

ANTICIPATED PLAYER RESPONSE:

The plant operators should suspect rapid recombination occurring in the off-gas system. Refer to procedure 2.4.142 "Abnormal Recombiner Operation"

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CHEM-4

ELAPSED TIME 0005 TIME

****

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

****

MESSAGE FOR: Chemistry Technician

INFORMATION:

Assume you have just completed a reactor water sample analysis and have gotten the following results:

Conductivity - 0.248 µS/cm (Increase)
pH - 6.4 (Decrease)
Total Iodine Activity - 9.95E-03 µCi/ml (Steady)
Chloride - 1.4 ppb (Steady)
Nitrates - 18.6 ppb (Increase)
Sulfates - 3.1 ppb (Steady)
Dissolved Oxygen - 150 ppb (Steady)
SJAE - 7.4E+06 µCi/sec (Increase)

Analysis of Hotwell water sample indcates the following:

Conductivity - 0.975 µS/cm (Increase)
Chloride - <1 ppb (Steady)

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CHEM-4

ELAPSED TIME 0005 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The provided reactor coolant sample analysis results indicate an abnormally high conductivity and higher pH without any increase in chloride concentration or coolant activity.

ANTICIPATED PLAYER RESPONSE:

The Chemistry Technician should immediately inform the NWE of the results. The increased reactor coolant conductivity along with the absence of any increase in coolant activity should provide further indication that combustion in the Off-gas system is occurring. Actions specified in Procedure 2.4.142 "Abnormal Recombiner Operation" should be implemented.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-5

ELAPSED TIME 0020 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status and the attached Daily Radwaste/Chemistry Report.

****

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

****

*** THIS IS A DRILL ***

MESSAGE No. CR-5

DAILY RADWASTE/CHEMISTRY REPORT

December 12, 1991

POWER OPERATION

CHEMISTRY

ANALYSIS	UNITS	VALUE MEASURED	ACHIEVABLE VALUE	TREND
REACTOR WATER				
Conductivity	(µS/cm)	0.248	≤0.200	Increase
Chloride	(ppb)	1.4	<15.0	Steady
Sulfates	(ppb)	3.1	<15.0	Steady
Total Iodine	(µCi/ml)	9.95E-03	<20.0	Steady
Dissolved Oxygen	(ppb)	150.0	N/A	Steady
SJAE	(µCi/sec)	7.4E+06	<5.00E5	Increase
CLEANUPS		A B		
Conductivity	(µS/cm)	0.058	<0.100	Steady
Silica	(ppb)	73.7	N/A	Steady
HOTWELL				
Conductivity	(µS/cm)	0.975	≤0.80	Increase
Chloride	(ppb)	<1	N/A	Steady
CONDENSATE DEMIN EFFLUENT				
Conductivity	(µS/cm)	0.083	≤0.060	Increase
REACTOR FEEDWATER				
Dissolved Oxygen	(ppb)	24.2	20 - 50	Steady

RADWASTE

Liquid Input Radwaste System: 27.1 gpm Monthly Trend 30.9

Demin Water Usage: 600 gal Monthly Average 1250 gal Trend Steady

Liquid Overboard Discharge: 1991 YTD 485,700 1990 YTD 720,000

Radwaste Shipment: Date — Type —

Demineralizer Changeout: Date — Type —

Con/Demin Ready for Service: D Date URC'D 12/9/91

THIS IS A DRILL

SCENARIO NO. 91-05A MESSAGE NO. CR-5

ELAPSED TIME 0020 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Actions to suppress the off-gas system combustion shall not be successful. Off-gas temperatures and flow indication will remain constant. The Daily Radwaste/Chemistry Report will provide further indication of the off-gas combustion.

ANTICIPATED PLAYER RESPONSE:

Actions to initiate a controlled plant shutdown should be underway in accordance with Procedure 2.4.142.

COMMENTS:

Reactor power and RPV pressure data shall be provided that is consistent with the actions taken by the plant operating staff. Do not allow the reactor to be manually scrammed until after the off-gas Hi-Hi radiation alarm is received and the isolation timer has timed out (0038).

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-6

ELAPSED TIME 0025 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following control room annunciator(s) are received:

Panel 903 Right F-2 Offgas Hi Hi Radiation
I-2 Offgas Timer Initiated

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-6

ELAPSED TIME 0025 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Off-gas radiation levels are continuing to increase as a result of the rapid recombination in the off-gas after condenser. The off-gas hi hi radiation annunciator initiates the off-gas isolation timer (13 minutes) which will, upon expiration, cause the off-gas system to isolate if the high radiation condition is not cleared. This will require a manual scram of the reactor.

ANTICIPATED PLAYER RESPONSE:

Enter Procedure 2.4.40 Rapid Increase in Off-gas Activity. Attempt to clear the high off-gas activity by reducing reactor power

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-7

ELAPSED TIME 0038 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The off-gas timer has timed-out

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-7

ELAPSED TIME 0038 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The off-gas timer has timed out. The off-gas isolation valves have shut. Condenser vacuum will decrease until the reactor is isolated.

ANTICIPATED PLAYER RESPONSE:

Manually scram and isolate the reactor in accordance with Procedure 2.4.40. Implement Procedure 2.1.6 Reactor Scram.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-8

ELAPSED TIME 0039 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for MSIV position indication.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-8

ELAPSED TIME 0039 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

AO-203-1D (inboard MSIV on the "D" MSL) fails to close

ANTICIPATED PLAYER RESPONSE:

Attempt to close MSIV by cycling control switch. Verify no steam flow through the affected steamline.

COMMENTS:

Since the outboard MSIV successfully closed the Main Steam Line is effectively isolated.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-9X

ELAPSED TIME 0040 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Upon attempts to manually start HPCI the following indications and annunciators are recieved:

903C D-1 HPCI Turbine Trip

903C H-2 HPCI Lo Flow

HPCI turbine speed increased rapidly to the overspeed trip setpoint and then back down.

Turbine trip throttle valve went closed.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-9X

ELAPSED TIME 0040 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The HPCI turbine has tripped on overspeed due to a failure in the speed contr' circuitry. Successive attempts to restart HPCI will result in the turbine to overs, ed.

ANTICIPATED PLAYER RESPONSE:

Determine cause of overspeed and attempt to restart.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-10

ELAPSED TIME 0040 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Safety relief valves are cycling on RPV pressure.

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-10

ELAPSED TIME 0040 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The RPV is isolated and SRV's are cycling on high RPV pressure. SRV's will continue to cycle until decay heat is within RCIC capacity.

ANTICIPATED PLAYER RESPONSE:

Enter EOP -01 RPV Control based on high RPV pressure and take manual control of SRV's and start RCIC in pressure control mode. Initiate torus cooling. Maintain RPV level via condensate and feed. Declare an Unusual Event based on EAL# 1.2.1.1. Implement EP-IP-110.

COMMENTS:

Verify that all appropriate steps of EP-IP-110 are implemented. Note exact time of declaration and compare with time of initiation of off-site notifications.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-11X

ELAPSED TIME 0050 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The Main Turbine Bypass Valves fail to open.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-11X

ELAPSED TIME 0050 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide this message if at any time attempts are made to re-establish the main condenser as a heat sink and the Main Turbine Bypass Valves are attempted to be opened

ANTICIPATED PLAYER RESPONSE:

Actions should be taken to determine why the MTBV's will not open. Verify availability of sufficient condenser vacuum. Maintain cooldown rate via SRV's and RCIC.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-12

ELAPSED TIME 0100 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-12

ELAPSED TIME 0100 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Torus water temperatures have increased signifigantly requiring entry into EOP-03 Primary Containment Control.

ANTICIPATED PLAYER RESPONSE:

Continue to cooldown via SRV's and RCIC. Maximize torus cooling. Maintain RPV water level via condensate and feed. Maximize hotwell make-up.

COMMENTS:

Do not allow the RPV to be Alternately Depressurized.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-13

ELAPSED TIME 0115 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-13

ELAPSED TIME 0115 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Torus water temperatures continue to increase.

ANTICIPATED PLAYER RESPONSE:

Continue to cooldown via SRV's and RCIC.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-14

ELAPSED TIME 0120 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following indications and annunciators are received in the Control Room:

C1R C-1 RBCCW Loop A Pump Low Disch Press
C1R C-4 RBCCW Loop B Pump Low Disch Press
C1R E-1 RBCCW Loop A Surge Tank Low Level
C1R E-4 RBCCW Loop B Surge Tank Low Level
904R F-4 Torus Room Trough Hi/Lo Level
904R G-4 RBCCW Pumps Areas Floor Leakage Alarm

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-14

ELAPSED TIME 0120 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The RBCCW suction crosstie line has ruptured (outside of both suction x-tie vaves HO-114 and HO-115). A complete loss of RBCCW has resulted in the low RBCCW head tank levels and low pump discharge pressures. The resultant leak has flooded the Auxilliary Bay and has cuased the high level in the torus area trough.

ANTICIPATED PLAYER RESPONSE:

Implement Procedure 2.4.42 Loss of RBCCW. Attempt to restore RBCCW flow.

COMMENTS:

RBCCW cannot be restored without repair of the suction x-tie line.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-15

ELAPSED TIME 0130 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following indications and annunciators are received in the Control Room:

904L I-3 Drywell Pressure Hi/Lo
905R E-6 Drywell Hi/Lo Pressure

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-15

ELAPSED TIME 0130 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

High drywell pressure alarm resultant of the loss of RBCCW to drywell area coolers.

ANTICIPATED PLAYER RESPONSE:

Actions to reduce drywell pressure should be taken in accordance with Procedure 2.2.70 (Pri Cont Atm Control System). In accordance with Procedure 2.4.42 both RHR HX bypass valves should be opened, the operating CRD pump tripped, operating RHR pumps secured, and monitor other RBCCW system load temperatures.

COMMENTS:

Consideration should be given to tripping Recirc. Pumps.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-16

ELAPSED TIME 0140 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following indications and annunciators are received in the Control Room:

905R B-5 Reactor Scram Channel A
905R D-5 Reactor Scram Channel B
905R G-4 Drywell Hi Press Scram
903L A-2 RHR Pump A Auto Start
903L B-2 RHR Pump C Auto Start
903L C-3 Hi Drywell Pressure CSCS Initiation
903L F-3 Core Spray Pump A Auto Start
903L G-2 RHR Loop B High Drywell Spray Permissive
903C A-4 RHR Pump D Auto Start
903C I-3 RHR Pump B Auto Start
903R I-1 Core Spray Pump B Auto Start

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-16

ELAPSED TIME 0140 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Drywell pressure has exceeded 2.5 psig resulting in the initiation of low pressure CSCS pumps. Reactor pressure is above the injection valve opening permissive

ANTICIPATED PLAYER RESPONSE:

Take manual control of low pressure CSCS. Continue actions to reduce primary containment pressure.

Declare an Alert based on either EAL# 3.4.1.2 - inability to maintain drywell pressure <2.5 psig or EAL# 6.2.2.2 - inability to establish cold shutdown conditions. Implement EP-IP-120.

COMMENTS:

Provide drywell pressure indication of 5.5 psig and increasing. Provide drywell pressure and temperature values that are within the Drywell Spray Initiation curve spray allowed region.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-17X

ELAPSED TIME 0140 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Make the following plant announcement in lieu of the announcement specified in EP-IP-120:

THIS IS A DRILL
THIS IS A DRILL

Attention all personnel; Attention all personnel: An Alert has been declared due to (provide brief description of event). All on-call members of the Emergency Response Organization report to your designated emergency response facility. Had this been an actual emergency, all other personnel would be directed to assemble in your normal office or shop area and report to your supervisor to await further instructions. For the purpose of the drill, all non-drill participants are to continue with your normal duties.

THIS IS A DRILL.
THIS IS A DRILL.

(REPEAT MESSAGE)

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-17X

ELAPSED TIME 0140 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide message to modify plant announcement specified in EP-IP-120.

ANTICIPATED PLAYER RESPONSE:

Make pre-defined announcement over the plant page.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-18X

ELAPSED TIME 0140 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Make the following plant announcement in lieu of the announcement specified in step 5.5 of EP-IP-120:

THIS IS A DRILL
THIS IS A DRILL

Attention all personnel; Attention all personnel: Had this been an actual emergency, all non-essential contract personnel, all visitors, and all handicapped personnel would be directed to leave the site at this time. For the purpose of the drill, all non-drill participants are to continue with your normal duties.

THIS IS A DRILL
THIS IS A DRILL

(REPEAT MESSAGE)

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-18X

ELAPSED TIME 0140 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide message to modify plant announcement specified in section 5.5 of EP-IP-120.

ANTICIPATED PLAYER RESPONSE:

Make pre-defined announcement over the plant page.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-19

ELAPSED TIME 0150 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-19

ELAPSED TIME 0150 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-20

ELAPSED TIME 0200 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-20

ELAPSED TIME 0200 TIME

****

THIS IS A D. .L

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's. Drywell temperatures and pressure continues to increase.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely. Maintain RPV water level.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO OSC-21X

ELAPSED TIME 0200 TIME

****

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

****

MESSAGE FOR: OSC Maintenance Team dispatched to troubleshoot RBCCW.

INFORMATION:

The "B" loop bay of the 3' elevation of the auxillary bay has several inches of water on the floor.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. OSC-21X

ELAPSED TIME 0200 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Upon entry of the team into the "B" Loop bay of the Auxilliary Bay provide indication of a large amount of water on the floor. Upon further inspection, provide indication of the double ended rupture of the RBCCW suction x-tie line along the bulkhead.

ANTICIPATED PLAYER RESPONSE:

Report results of survey back to OSC.

COMMENTS:

Subsequent actions to repair RBCCW piping rupture will be successful. Whatever repair actions are simulated to be taken should occur over a realistic time frame.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-22

ELAPSED TIME 0215 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-22

ELAPSED TIME 0215 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's. Drywell temperatures and pressure continues to increase.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely. Maintain RPV water level.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-23

ELAPSED TIME 0230 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-23

ELAPSED TIME 0230 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's. Drywell temperatures and pressure continues to increase.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely. Maintain RPV water level.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-24

ELAPSED TIME 0245 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-24

ELAPSED TIME 0245 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's. Drywell temperatures and pressure continues to increase.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely. Maintain RPV water level.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-25

ELAPSED TIME 0300 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-25

ELAPSED TIME 0300 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's. Drywell temperatures and pressure continues to increase.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely. Maintain RPV water level.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-26

ELAPSED TIME 0315 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-26

ELAPSED TIME 0315 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects continued cooldown and depressurization via SRV's. Drywell temperatures and pressure continues to increase.

ANTICIPATED PLAYER RESPONSE:

Continue actions to restore RBCCW flow and cooldown. Track containment parameters closely. Maintain RPV water level.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-27

ELAPSED TIME 0320 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following annunciators and indications are received in the control room:

905R B-1 Steam Tunnel Ch A Hi Temp

905R F-1 Steam Tunnel Ch B Hi Temp

904C I-1 Steam Leakage Hi Area Temperature

"D" main steam line flow indicates 500,000 lbm/hr

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-27

ELAPSED TIME 0320 TIME

****

THIS IS A DRILL

********** **********

ADDITIONAL CONTROLLER INFORMATION:

The "D" Main Steam Line has ruptured in the steam tunnel. The RPV depressurizes and area temperatures in the vicinity of the steam tunnel rise sharply.

Upon investigation of the Steam Leak Detection System, provide the following indications:

Panel 921 Areas in alarm:

Main Steam Tunnel Area - 350 degrees
RWCU & RHR piping area 23' Ele. - 260 degrees

ANTICIPATED PLAYER RESPONSE:

Investigate high temperatures on panel 921 Steam Leak Detection System. Enter EOP-04 Secondary Containment Control. Evacuate any personnel in the Reactor Building 23' ele.

COMMENTS:

Area temperatures are in excess of the maximun safe operating values as specified in ECP-04.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-28

ELAPSED TIME 0325 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-28

ELAPSED TIME 0325 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The Secondary Containment Maximum Safe Operating Temperatures have been exceeded in two or more areas and a primary system is discharging into the area. An inisolable steam line break outside primary containment exists.

ANTICIPATED PLAYER RESPONSE:

Enter EOP-07 Alternate RPV Depressurization. Emergency Director declare a Site Area Emergency based on either EAL# 4.2.1.3 or # 6.2.2.3 then implement EP-IP-130. Evacuate all non-essential personnel (simulate) to the designated assembly area..

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A **MESSAGE NO** CR-29X

ELAPSED TIME 0325 **TIME**

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Make the following plant announcement in lieu of the announcement specified in EP-IP-130:

THIS IS A DRILL
THIS IS A DRILL

Attention all personnel; Attention all personnel: A Site Area Emergency has been declared due to (provide brief description of event). 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 drill, all non-drill participants are to continue with your normal duties.

THIS IS A DRILL
THIS IS A DRILL

(REPEAT MESSAGE)

****

THIS IS A DRILL
DO NOT INIT ATE ACTIONS AFFECTING NORMAL PLANT OPERATIONS

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-29X

ELAPSED TIME 0325 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the Watch Engineer prior to the initiation of the plant announcement for the Site Area Emergency.

ANTICIPATED PLAYER RESPONSE:

Make the specified announcement in lieu of that specified in EP-IP-130.

COMMENTS:

Provide message CR-30X to NWE prior to making his SAE evacuation announcement.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-30

ELAPSED TIME 0345 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-30

ELAPSED TIME 0345 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects the reactor depressurization.

ANTICIPATED PLAYER RESPONSE:

Maintain reactor water level, attempt to restore RBCCW flow.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-31

ELAPSED TIME 0400 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-31

ELAPSED TIME 0400 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects the reactor depressurization and continued release of energy into the reactor building via the main steamline break.

ANTICIPATED PLAYER RESPONSE:

Increase injection into the RPV in an attempt to minimize further energy release.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO OSC-32X

ELAPSED TIME 0400 TIME

****

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

****

MESSAGE FOR: Anty re-entry team dispatched to the reactor building 23' elevation

INFORMATION:

The reactor building 23' east is uninhabitable due to high temperatures and steam.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. OSC-32X

ELAPSED TIME 0400 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

If an entry into the reactor building 23' elevation is attempted, provide indication of extreme temperature and extremely low visability.

ANTICIPATED PLAYER RESPONSE:

Determine that area is uninhabitable and retreat. Attempt entry wearing steam suits.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-33

ELAPSED TIME 0415 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-33

ELAPSED TIME 0415 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects the continued release of energy into the reactor building.

ANTICIPATED PLAYER RESPONSE:

Continue attempts at restoring RBCCW and minimizing steam release.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-34

ELAPSED TIME 0430 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-34

ELAPSED TIME 0430 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects the continued release of energy into the reactor building.

ANTICIPATED PLAYER RESPONSE:

Continue attempts at restoring RBCCW and minimizing steam release.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-35

ELAPSED TIME 0445 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-35

ELAPSED TIME 0445 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects the continued release of energy into the reactor building.

ANTICIPATED PLAYER RESPONSE:

Continue attempts at restoring RBCCW and minimizing steam release.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-36

ELAPSED TIME 0455 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

The following indications and alarms are received in the Control Room:

- Emergency lighting has come on, normal lighting is out
- 0 volts indicated on busses A-1 thru A-6
- "B" EDG has tripped
- Only panel indicators working:
  - Panel 905 level & pressure indication
  - Panel 905 CRD position indicator
  - Panel 904 and 903 RCIC & HPCI instruments
  - Panel 903 SRV position indicators

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-30

ELAPSED TIME 0455 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Indication of a complete loss of AC power. Complete loss of off-site power and "B" EDG tripped or overspeed due to governor failure.

ANTICIPATED PLAYER RESPONSE:

Recognize station blackout, attempt to restore "B" EDG, implement Procedure 2.4.138 "Station Blackout"

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO OSC 37X

ELAPSED TIME 0500 TIME

****

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

****

MESSAGE FOR: OSC Maint. team sent to invest./repair 'B' EDG

INFORMATION:

The 'B' EDG has tripped on overspeed

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. OSC-37X

ELAPSED TIME 0500 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The governor on the 'B' EDG has failed, causing the EGD to overspeed

ANTICIPATED PLAYER RESPONSE:

Troubleshoot governor, recommend replacement

COMMENTS:

Actions to replace governor, if pursued, will be successful. Allow realistic time frame for maintenance and testing activities. Under no condition allow 'B' EDG return to service before elapsed time 0610

****

THIS IS A DRILL

****

FNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO OSC-38X

ELAPSED TIME 0500 TIME

****

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

****

MESSAGE FOR: OSC Maint. team sent to restore BODG

INFORMATION:

BODG is tagged out. Fuel oil day tank and lube oil sump are drained

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-38X

ELAPSED TIME 0500 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

The BODG can be restored for use by transferring fuel oil to the day tank and by refilling the BODG lube oil sump. No lube oil is available though at the BODG enclosure.

ANTICIPATED PLAYER RESPONSE:

Restore BODG to service by refilling fuel oil dat tank and lube oil sump.

COMMENTS:

Actions to restore BODG will be successful. Allow realistic time frame for completion. Under no condition allow BODG return to service before elapsed time 0610

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-39

ELAPSED TIME 0510 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-39

ELAPSED TIME 0510 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects loss of all AC and steady loss of RPV water inventory as reactor coolant boils down and out the steam line break.

ANTICIPATED PLAYER RESPONSE:

Attempt to establish an RPV injection source. Continue attempts to restore "B" EDG. Consider actions to restore BODG.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-40

ELAPSED TIME 0520 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-40

ELAPSED TIME 0520 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Plant parameter status reflects loss of all AC and steady loss of RPV water inventory as reactor coolant boils down and out the steam line break.

ANTICIPATED PLAYER RESPONSE:

Continue attempts to establish an RPV injection source

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-41X

ELAPSED TIME 0520 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Make the following plant announcement in lieu of the announcement specified in EP-IP-140:

THIS IS A DRILL
THIS IS A DRILL

Attention all personnel; Attention all personnel: A General Emergency has been declared due to (provide brief description of event). Had this been an actual emergency, there would be no eating, drinking or smoking allowed until further notice. For the purpose of the drill, all non-drill participants are to continue with your normal duties.

THIS IS A DRILL
THIS IS A DRILL

(REPEAT MESSAGE)

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-41X

ELAPSED TIME 0520 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide this message to the Watch Engineer prior to the initiation of the plant announcement for the General Emergency.

ANTICIPATED PLAYER RESPONSE:

Make the specified announcement in lieu of that specified in EP-IP-140.

COMMENTS:

Provide message CR-40X to NWE prior to making his GE announcement.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-42

ELAPSED TIME 0540 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-42

ELAPSED TIME 0540 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

RPV water level is at TAF.

ANTICIPATED PLAYER RESPONSE:

Consider declaration of General Emergency based upon entry into EOP-09 "Containment Flooding" EAL#2.1.2.4

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-43

ELAPSED TIME 0555 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-43

ELAPSED TIME 1355 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Water level is approaching -165 in.(MZIRWL)

ANTICIPATED PLAYER RESPONSE:

Declare General Emergency if not already declared.

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-44

ELAPSED TIME 0610 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

REMVEC calls to inform you that the 342 line to the startup transformer has been restored and that ACB 103 can be closed.
Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-44

ELAPSED TIME 0610 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

RPV water level has dropped to -200 in. and severe fuel damage has occurred. Reactor building radiation levels have risen rapidly. PRM recorders are de-energized but monitors are still powered.

ANTICIPATED PLAYER RESPONSE:

Reset any lock-outs and close ACB 103 to re-energize the startup transformer. Upon regaining powere from the startup transformer, restart plant equipment as required to restore RPV water level. Re-establish an RPV injection source and re-start SBGT

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-45X

ELAPSED TIME 0615 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Restart a train of Standby Gas Treatment

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-45X

ELAPSED TIME 0615 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide message to start a train of SBGT if not already done or actions in progress to do so.

ANTICIPATED PLAYER RESPONSE:

Start a train of SBGT

COMMENTS:

It is imperitive that SBGT be started by this time to support Main Stack radiation release rates.

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-46

ELAPSED TIME 0625 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-46

ELAPSED TIME 0625 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Main stack PRM increases above that requiring a General Emergency, RPV water level stabilized

ANTICIPATED PLAYER RESPONSE:

Continue attempts to reflood RPV and reduce pressure

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-47

ELAPSED TIME 0640 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-47

ELAPSED TIME 0640 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Main stack PRM continues to increase, RPV water level slowly increasing

ANTICIPATED PLAYER RESPONSE:

Continue attempts to reflood RPV and reduce pressure

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-48

ELAPSED TIME 0655 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-48

ELAPSED TIME 0655 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Offsite release continues as water in RPV continues to slowly boil off to reactor building.

ANTICIPATED PLAYER RESPONSE:

Continue actions to reflood RPV and reduce pressure

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-49

ELAPSED TIME 0710 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

SCENARIO NO. 91-05A MESSAGE NO. CR-49

ELAPSED TIME 0710 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Offsite release continues as water in RPV continues to slowly boil off to reactor building. RPV water level increasing.

ANTICIPATED PLAYER RESPONSE:

Continue actions to reflood RPV and reduce pressure

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-50

ELAPSED TIME 0725 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-50

ELAPSED TIME 0725 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Offsite release continues as water in RPV continues to slowly boil off to reactor building. RPV water level increasing.

ANTICIPATED PLAYER RESPONSE:

Continue actions to reflood RPV and reduce pressure

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-51

ELAPSED TIME 0745 TIME

****

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

****

MESSAGE FOR: Watch Engineer

INFORMATION:

Refer to the attached sheet for plant parameter data and plant equipment status.

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-51X

ELAPSED TIME 0745 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

ANTICIPATED PLAYER RESPONSE:

If RBCCW has been restored, establish shutdown cooling or reject heat by recirculating RWCU

COMMENTS:

****

THIS IS A DRILL

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
MESSAGE FORM

SCENARIO NO. 91-05A MESSAGE NO CR-52

ELAPSED TIME 0800 TIME

****

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

****

MESSAGE FOR: Senior ERO position in each facility

INFORMATION:

The 1991 NRC/FEMA Evaluated Exercise is terminated.

Assure that the following Gai-tronics and/or PA announcement is made:

"Attention! Attention! The Pilgrin Nuclear Power Station 1991 NRC Evaluated Exercise has been completed. No further drill announcements will be made."

****

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

****

PNPS EMERGENCY PREPAREDNESS DRILL/EXERCISE
FOR CONTROLLER USE ONLY

SCENARIO NO. 91-05A MESSAGE NO. CR-52

ELAPSED TIME 0800 TIME

****

THIS IS A DRILL

****

ADDITIONAL CONTROLLER INFORMATION:

Provide message to 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, Procedures Manuals, Armbands, and other materials should be returned to their proper locations.

COMMENTS:

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THIS IS A DRILL

****

91-05-A CR-1 ET-0020

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal _____

Mode Switch: S/D / SU/HSB / [Refuel / Run]

SBLC PUMPS: A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL 4300 gallons

3 RHR

Mode

Loop A: A insrvc [avail] oos; C insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

Loop B: B insrvc [avail] oos; D insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

4 CS

Loop A: insrvc [avail] oos

Loop Flow: _____ gpm

Loop B: insrvc [avail] oos

Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps — Loop A: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos

Loop B: D [insrvc] avail oos; E insrvc [avail] oos; F insrvc [avail] oos

SSW Pumps — Loop A: A [insrvc] avail oos; B [insrvc] avail oos

Loop B: D insrvc avail [oos]; E [insrvc] avail oos

Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps: A [insrvc] avail oos — 91 % speed

B [insrvc] avail oos — 92 % speed

10 CRD

CRD Pumps: A [insrvc] avail oos; B insrvc [avail] oos

11 SBGT

A insrvc [avail] oos

B insrvc [avail] oos

12 FEED/COND

Cond Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C [insrvc] avail oos

Feed Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C [insrvc] avail oos

CST Level: A 25 ft.; B 25 ft.

13 RB VENT

[insrvc] isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	100	→
RPV PRESSURE	psig	1032	→
RPV WATER LEVEL	inches	28	→
DRYWELL TEMP	deg F	132	→
TORUS WATER TEMP	deg F	73	→
TORUS WATER LEVEL	inches	128	→
DRYWELL PRESSURE	psig	1.2	→
TORUS PRESSURE	psig	1.0	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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91-05-A CR-3 ET 0000

1 AC POWER SOURCES

UAT	[insrvc]	avail oos
S/U XFMR	insrvc	[avail] oos
S/D XFMR	insrvc	[avail] oos
EDG A	insrvc avail	[oos]
EDG B	insrvc	[avail] oos
BCDG	insrvc avail	[oos]

2 SAFEGUARDS

Rx Trip Signal _____

Mode Switch S/D SU/HSB Refuel [Run]

SBLC PUMPS A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL 4300 gallons

3 RHR

Mode

Loop A: A insrvc [avail] oos; C insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc [avail] oos; D insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A: insrvc [avail] oos

Loop Flow: _____ gpm

Loop B: insrvc [avail] oos

Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos
Loop B: D [insrvc] avail oos; E insrvc [avail] oos; F insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A [insrvc] avail oos — 91 % speed
B [insrvc] avail oos — 92 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A insrvc [avail] oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C [insrvc] avail oos

Feed Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C [insrvc] avail oos

CST Level: A 25 ft.; B 25 ft.

13 RB VENT

[insrvc] isolated

RB d/p 0.25 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	100	→
RPV PRESSURE	psig	1032	→
RPV WATER LEVEL	inches	28	→
DRYWELL TEMP	deg F	132	→
TORUS WATER TEMP	deg F	73	→
TORUS WATER LEVEL	inches	128	→
DRYWELL PRESSURE	psig	1.2	→
TORUS PRESSURE	psig	1.0	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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91-05-A CR-5 ET 0020

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal _____

Mode S/D Refuel

Switch SU/HSB [Run]

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL 4300 gallons

3 RHR

Mode

Loop A: A insrvc [avail] oos
C insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc [avail] oos
D insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc [avail] oos
Loop Flow:
_____ gpm

Loop B:
insrvc [avail] oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos
Loop B: D [insrvc] avail oos; E insrvc [avail] oos; F insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A [insrvc] avail oos
91 % speed
B [insrvc] avail oos
92 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A insrvc [avail] oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C [insrvc] avail oos

Feed Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C [insrvc] avail oos

CST Level: A 25 ft.; B 25 ft.

13 RB VENT

[insrvc] isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%		
RPV PRESSURE	psig		
RPV WATER LEVEL	inches	28	→
DRYWELL TEMP	deg F	132	→
TORUS WATER TEMP	deg F	73	→
TORUS WATER LEVEL	inches	128	→
DRYWELL PRESSURE	psig	1.2	→
TORUS PRESSURE	psig	1.0	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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91-05-A CR-6 ET 0025

1 AC POWER SOURCES

UAT [insrvc] avail oos

S/U XFMR insrvc [avail] oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B insrvc [avail] oos

BODG insrvc avail [oos]

2 SAFEGUARDS

Rx Trip Signal _____

Mode Switch S/D SU/HSB Refuel [Run]

SBLC PUMPS A insrvc [avail] oos

B insrvc [avail] oos

SBLC TK LVL 4300 gallons

3 RHR

Mode

Loop A: A insrvc [avail] oos; C insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc [avail] oos; D insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A: insrvc [avail] oos

Loop Flow: _____ gpm

Loop B: insrvc [avail] oos

Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos
Loop B: D [insrvc] avail oos; E insrvc [avail] oos; F insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos; B insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A [insrvc] avail oos
91 % speed
B [insrvc] avail oos
92 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A insrvc [avail] oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C [insrvc] avail oos

Feed Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C [insrvc] avail oos

CST Level
A 25 ft.
B 25 ft.

13 RB VENT

[insrvc] isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%		
RPV PRESSURE	psig		
RPV WATER LEVEL	inches	28	→
DRYWELL TEMP	deg F	132	→
TORUS WATER TEMP	deg F	73	→
TORUS WATER LEVEL	inches	128	→
DRYWELL PRESSURE	psig	1.2	→
TORUS PRESSURE	psig	1.0	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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91-05-A CR-10 ET 0040

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode [S/D] Refuel

Switch SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc [avail] oos
C insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc [avail] oos
D insrvc [avail] oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc [avail] oos
Loop Flow:
_____ gpm

Loop B:
insrvc [avail] oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos
Loop B: D [insrvc] avail oos
E insrvc [avail] oos
F insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos
B [insrvc] avail oos
Loop B: D insrvc avail [oos]
E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos
B insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos
B [insrvc] avail oos

7 HPCI

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc [avail] oos
26 % speed
B insrvc [avail] oos
26 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A [insrvc] avail oos
B [insrvc] avail oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*915*	↗
RPV WATER LEVEL	inches	*20*	↗
DRYWELL TEMP	deg F	*127*	→
TORUS WATER TEMP	deg F	*73*	→
TORUS WATER LEVEL	inches	*128*	→
DRYWELL PRESSURE	psig	*1.1*	↘
TORUS PRESSURE	psig	*1.0*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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91-05-A CR-12 ET 0100

1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B insrvc [avail] oos

BODG insrvc avail [oos]

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode [S/D] Refuel

Switch SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode: [Torus Cooling] DW Spray Torus Spray LPCI SDC

Loop A: A [insrvc] avail oos
C insrvc [avail] oos

Loop Flow _____ gpm

Loop B: B insrvc [avail] oos
D insrvc [avail] oos

Loop Flow _____ gpm

4 CS

Loop A:
insrvc [avail] oos
Loop Flow:
_____ gpm

Loop B:
insrvc [avail] oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos
Loop B: D [insrvc] avail oos; E insrvc [avail] oos; F insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc [avail] oos
26 % speed
B insrvc [avail] oos
26 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A [insrvc] avail oos
B [insrvc] avail oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft
B *25* ft

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*975*	↗
RPV WATER LEVEL	inches	*20*	↗
DRYWELL TEMP	deg F	*113*	↘
TORUS WATER TEMP	deg F	*83*	↗
TORUS WATER LEVEL	inches	*129*	→
DRYWELL PRESSURE	psig	*.7*	↘
TORUS PRESSURE	psig	*.7*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: *Manual*

Mode: [S/D] Refuel

Switch: SU/HSB Run

SBLC PUMPS A: insrvc [avail] oos

SBLC PUMPS B: insrvc [avail] oos

SBLC TK LVL: *4300* gallons

3 RHR

Mode: [Torus Cooling] / DW Spray / Torus Spray / LPCI / SDC

Loop A: A [insrvc] avail oos; C insrvc avail oos

Loop Flow: *4500* gpm

Loop B: B insrvc [avail] oos; D insrvc [avail] oos

Loop Flow: _____ gpm

4 CS

Loop A: insrvc [avail] oos

Loop Flow: _____ gpm

Loop B: insrvc [avail] oos

Loop Flow: _____ gpm

5 PCIS

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

Bypassed: _____

6 COOLING WATER

RBCCW Pumps — Loop A: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos

RBCCW Pumps — Loop B: D [insrvc] avail oos; E insrvc [avail] oos; F insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

SSW Pumps — Loop A: A [insrvc] avail oos; B [insrvc] avail oos

SSW Pumps — Loop B: D insrvc avail [oos]; E [insrvc] avail oos

SSW Pumps — Swing: C insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps A: insrvc [avail] oos — *26* % speed

B: insrvc [avail] oos — *26* % speed

10 CRD

CRD Pumps A: [insrvc] avail oos

CRD Pumps B: insrvc [avail] oos

11 SBGT

A [insrvc] avail oos

B insrvc [avail] oos

12 FEED/COND

Cond Pumps A: [insrvc] avail oos

Cond Pumps B: [insrvc] avail oos

Cond Pumps C: insrvc [avail] oos

Feed Pumps A: [insrvc] avail oos

Feed Pumps B: insrvc [avail] oos

Feed Pumps C: insrvc [avail] oos

CST Level A: *25* ft.

CST Level B: *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*1050*	↗
RPV WATER LEVEL	inches	*27*	→
DRYWELL TEMP	deg F	*111*	↘
TORUS WATER TEMP	deg F	*84*	↗
TORUS WATER LEVEL	inches	*129*	→
DRYWELL PRESSURE	psig	*.7*	→
TORUS PRESSURE	psig	*.7*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

EP-P-210-6989

91-05-A CR-14 ET 0120

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: *Manual*

Mode: [S/D] Refuel

Switch: SU/HSB Run

SBLC PUMPS: A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL: *4300* gallons

3 RHR

Mode: [Torus Cooling] DW Spray Torus Spray LPCI SDC

Loop A: A [insrvc] avail oos; C insrvc avail oos

Loop Flow *4500* gpm

Loop B: B insrvc [avail] oos; D insrvc [avail] oos

Loop Flow _____ gpm

4 CS

Loop A: insrvc [avail] oos

Loop Flow: _____ gpm

Loop B: insrvc [avail] oos

Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps — Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]

Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps — Loop A: A [insrvc] avail oos; B [insrvc] avail oos

Loop B: D insrvc avail [oos]; E [insrvc] avail oos

Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps: A insrvc [avail] oos; *26* % speed

B insrvc [avail] oos; *26* % speed

10 CRD

CRD Pumps: A [insrvc] avail oos; B insrvc [avail] oos

11 SBGT

A [insrvc] avail oos

B insrvc [avail] oos

12 FEED/COND

Cond Pumps: A [insrvc] avail oos; B [insrvc] avail oos; C insrvc [avail] oos

Feed Pumps: A [insrvc] avail oos; B insrvc [avail] oos; C insrvc [avail] oos

CST Level: A *25* ft.; B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*948*	↗
RPV WATER LEVEL	inches	*22*	→
DRYWELL TEMP	deg F	*115*	↗
TORUS WATER TEMP	deg F	*88*	↗
TORUS WATER LEVEL	inches	*128*	→
DRYWELL PRESSURE	psig	*.9*	↗
TORUS PRESSURE	psig	*.7*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

EP-15-210 9/89

91-05-A CR-16 ET 0140

1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B * [insrvc] avail oos

BODG insrvc avail [oos]

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode [S/D] Refuel

Switch SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: * A [insrvc] avail oos
C [insrvc] avail oos

Loop Flow _____ gpm

* *Pump start on Hi DW pressure*

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: * B [insrvc] avail oos
D [insrvc] avail oos

Loop Flow _____ gpm

* *Pump start on Hi DW pressure*

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
[insrvc] avail oos
Loop Flow:
_____ gpm

Loop B:
[insrvc] avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos
B insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos
B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*880*	↘
RPV WATER LEVEL	inches	*40*	→
DRYWELL TEMP	deg F	*230*	↗
TORUS WATER TEMP	deg F	*95*	↗
TORUS WATER LEVEL	inches	*129*	↗
DRYWELL PRESSURE	psig	*5.5*	↗
TORUS PRESSURE	psig	*5.2*	↗
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B * [insrvc] avail oos

BODG insrvc avail [oos]

** Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch S/D [Refuel] SU/HSB Run

SBLC PUMPS A insrvc [avail] oos

B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]
B insrvc avail [oos]
C insrvc avail [oos]
Loop B: D insrvc avail [oos]
E insrvc avail [oos]
F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos
B [insrvc] avail oos
Loop B: D insrvc avail [oos]
E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos
B insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos
B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*850*	↘
RPV WATER LEVEL	inches	*40*	→
DRYWELL TEMP	deg F	*245*	↗
TORUS WATER TEMP	deg F	*98*	↗
TORUS WATER LEVEL	inches	*129*	→
DRYWELL PRESSURE	psig	*2.9*	→
TORUS PRESSURE	psig	*3.1*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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91-05-A CR-20 ET 0200

1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B * [insrvc] avail oos

BODG insrvc avail [oos]

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch S/D [Refuel] SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

5 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control
☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A [insrvc] avail oos
B insrvc [avail] oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*650*	↘
RPV WATER LEVEL	inches	*44*	→
DRYWELL TEMP	deg F	*240*	→
TORUS WATER TEMP	deg F	*102*	↗
TORUS WATER LEVEL	inches	*130*	→
DRYWELL PRESSURE	psig	*2.7*	→
TORUS PRESSURE	psig	*2.9*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B * [insrvc] avail oos

BODG insrvc avail [oos]

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch S/D [Refuel] SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*450*	↘
RPV WATER LEVEL	inches	*42*	→
DRYWELL TEMP	deg F	*200*	→
TORUS WATER TEMP	deg F	*107*	→
TORUS WATER LEVEL	inches	*131*	→
DRYWELL PRESSURE	psig	*2.8*	→
TORUS PRESSURE	psig	*2.8*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B * [insrvc] avail oos

BODG insrvc avail [oos]

* Running unloaded

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode S/D [Refuel]

Switch SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos
B insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos
B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*380*	↘
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*205*	→
TORUS WATER TEMP	deg F	*114*	→
TORUS WATER LEVEL	inches	*132*	→
DRYWELL PRESSURE	psig	*3.0*	→
TORUS PRESSURE	psig	*3.0*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode S/D [Refuel]

Switch SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

			Mode
Loop A:	A insrvc avail oos		Torus Cooling
	C insrvc avail oos		DW Spray
Loop Flow _____ gpm			Torus Spray
			LPCI
			SDC
Loop B:	B insrvc avail oos		Torus Cooling
	D insrvc avail oos		DW Spray
			Torus Spray
Loop Flow _____ gpm			LPCI
			SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____ _____

6 COOLING WATER

RBCCW Pumps	Loop A	A insrvc avail [oos]	SSW Pumps	Loop A	A [insrvc] avail oos
		B insrvc avail [oos]			B [insrvc] avail oos
		C insrvc avail [oos]		Loop B	D insrvc avail [oos]
	Loop B	D insrvc avail [oos]			E [insrvc] avail oos
		E insrvc avail [oos]		Swing	C insrvc [avail] oos
		F insrvc avail [oos]			
TBCCW Pumps		A [insrvc] avail oos	Sea Water Pumps		A [insrvc] avail oos
		B insrvc [avail] oos			B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps A [insrvc] avail oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*300*	↘
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*215*	→
TORUS WATER TEMP	deg F	*117*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.5*	→
TORUS PRESSURE	psig	*2.5*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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91-05-A CR-25 ET 0300

1 AC POWER SOURCES

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

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch: S/D [Refuel] SU/HSB Run

SBLC PUMPS: A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos; D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control
☐ Level Control

8 RCIC

[insrvc] avail oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos] *0* % speed
B insrvc avail [oos] *0* % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*250*	↘
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*160*	→
TORUS WATER TEMP	deg F	*123*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.4*	→
TORUS PRESSURE	psig	*2.4*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

SB6-010-93

1 AC POWER SOURCES

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

* Running unloaded

2 SAFEGUARDS

Rx Trip Signal Manual
Mode Switch S/D [Refuel] SU/HSB Run
SPCC PUMPS A insrvc [avail] oos B insrvc [avail] oos
SBLC TK LVL 4300 gallons

3 RHR

Mode

Loop A: A insrvc avail oos, C insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos, D insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A: insrvc avail oos
Loop Flow: _____ gpm

Loop B: insrvc avail oos
Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos], B insrvc avail [oos], C insrvc avail [oos]
Loop B: D insrvc avail [oos], E insrvc avail [oos], F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos, B [insrvc] avail oos
Loop B: D insrvc avail [oos], E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos, B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos, B [insrvc] avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

[insrvc] avail oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos] 0 % speed
B insrvc avail [oos] 0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A 25 ft
B 25 ft

13 RB VENT

insrvc [isolated]
RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	0	→
RPV PRESSURE	psig	200	↘
RPV WATER LEVEL	inches	50	→
DRYWELL TEMP	deg F	190	↗
TORUS WATER TEMP	deg F	123	→
TORUS WATER LEVEL	inches	133	→
DRYWELL PRESSURE	psig	2.1	→
TORUS PRESSURE	psig	2.1	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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1 AC POWER SOURCES

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

* Running unloaded

2 SAFEGUARDS

Rx Trip Signal *Manual*
Mode Switch S/D [Refuel] SU/HSB Run
SBLC PUMPS A insrvc [avail] oos
B insrvc [avail] oos
SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps Loop A: A insrvc avail [oos]; B insrvc avail [oos]
Loop B: C insrvc avail [oos]; D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps A insrvc avail [oos] *0* % speed
B insrvc avail [oos] *0* % speed

10 CRD

CRD Pumps A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps A [insrvc] avail oos; B [insrvc] avail oos; C insrvc [avail] oos
Feed Pumps A insrvc [avail] oos; B insrvc [avail] oos; C insrvc [avail] oos
CST Level A *25* ft. B *25* ft.

13 RB VENT

insrvc [isolated]
RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*75*	↓
RPV WATER LEVEL	inches	*60*	↘
DRYWELL TEMP	deg F	*185*	→
TORUS WATER TEMP	deg F	*123*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.1*	→
TORUS PRESSURE	psig	*2.1*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch S/D [Refuel] SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps
A [insrvc] avail oos
B insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos
B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*40*	↘
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*185*	→
TORUS WATER TEMP	deg F	*123*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.1*	→
TORUS PRESSURE	psig	*2.1*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

* Running unloaded

2 SAFEGUARDS

Rx Trip Signal *Manual*
Mode Switch S/D [Refuel] SU/HSB Run
SBLC PUMPS A insrvc [avail] oos
B insrvc [avail] oos
SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps Loop A: A insrvc avail [oos]; B insrvc avail [oos]
Loop B: C insrvc avail [oos]; D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps A [insrvc] avail oos; B [insrvc] avail oos; C insrvc [avail] oos
Feed Pumps A insrvc [avail] oos; B insrvc [avail] oos; C insrvc [avail] oos
CST Level A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]
RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*40*	→
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*183*	→
TORUS WATER TEMP	deg F	*123*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.1*	→
TORUS PRESSURE	psig	*2.1*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch S/D [Refuel] SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

TBCCW Pumps: A [insrvc] avail oos; B insrvc [avail] oos

Sea Water Pumps: A [insrvc] avail oos; B [insrvc] avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*40*	→
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*180*	→
TORUS WATER TEMP	deg F	*123*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.1*	→
TORUS PRESSURE	psig	*2.1*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B * [insrvc] avail oos

BODG insrvc avail [oos]

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode S/D [Refuel]

Switch SU/HSB Run

SBLC A insrvc [avail] oos

PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

			Mode
Loop A:	A insrvc avail oos		Torus Cooling
	C insrvc avail oos		DW Spray
Loop Flow ___ _____ gpm			Torus Spray
			LPCI
			SDC
Loop B:	B insrvc avail oos		Torus Cooling
	D insrvc avail oos		DW Spray
			Torus Spray
Loop Flow _____ gpm			LPCI
			SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

TBCCW Pumps
A [insrvc] avail oos
B insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos; B [insrvc] avail oos
Loop B: D insrvc avail [oos]; E [insrvc] avail oos
Swing: C insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos
B [insrvc] avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*40*	→
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*179*	→
TORUS WATER TEMP	deg F	*122*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.1*	→
TORUS PRESSURE	psig	*2.1*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

EP-IP-210 0/89

91-05-A CR-35 ET 0445

1 AC POWER SOURCES

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

* *Running unloaded*

2 SAFEGUARDS

Rx Trip Signal *Manual*
Mode Switch S/D [Refuel] SU/HSB Run
SBLC PUMPS A insrvc [avail] oos B insrvc [avail] oos
SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos C insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos D insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos] B insrvc avail [oos] C insrvc avail [oos]
Loop B: D insrvc avail [oos] E insrvc avail [oos] F insrvc avail [oos]

TBCCW Pumps
A [insrvc] avail oos B insrvc [avail] oos

SSW Pumps
Loop A: A [insrvc] avail oos B [insrvc] avail oos
Loop B: D insrvc avail [oos] E [insrvc] avail oos
Swing: C insrvc [avail] oos

Sea Water Pumps
A [insrvc] avail oos B [insrvc] avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos] *0* % speed
B insrvc avail [oos] *0* % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps
A [insrvc] avail oos
B [insrvc] avail oos
C insrvc [avail] oos

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]
RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*40*	→
RPV WATER LEVEL	inches	*50*	→
DRYWELL TEMP	deg F	*178*	→
TORUS WATER TEMP	deg F	*120*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*2.0*	→
TORUS PRESSURE	psig	*2.0*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

EP-IP-210 9/89

91-05-A CR-39 ET 0510

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: Manual

Mode Switch: S/D | Refuel | SU/HSB | Run

SBLC PUMPS: A insrvc avail oos; B insrvc avail oos

SBLC TK LVL: 4300 gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos

Loop Flow: _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos; D insrvc avail oos

Loop Flow: _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A: insrvc avail oos; Loop Flow: _____ gpm

Loop B: insrvc avail oos; Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail oos; B insrvc avail oos
Loop B: C insrvc avail oos; D insrvc avail oos; E insrvc avail oos; F insrvc avail oos

SSW Pumps
Loop A: A insrvc avail oos; B insrvc avail oos
Loop B: D insrvc avail oos; E insrvc avail oos
Swing: C insrvc avail oos

TBCCW Pumps: A insrvc avail oos; B insrvc avail oos

Sea Water Pumps: A insrvc avail oos; B insrvc avail oos

7 HPCI

insrvc avail oos

☐ Pressure Control
☐ Level Control

8 RCIC

insrvc avail oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail oos; 0 % speed
B insrvc avail oos; 0 % speed

10 CRD

CRD Pumps: A insrvc avail oos; B insrvc avail oos

11 SBGT

A insrvc avail oos
B insrvc avail oos

12 FEED/COND

Cond Pumps: A insrvc avail oos; B insrvc avail oos; C insrvc avail oos

Feed Pumps: A insrvc avail oos; B insrvc avail oos; C insrvc avail oos

CST Level: A 25 ft; B [illegible] ft

13 RB VENT

insrvc | isolated

RB d/p 0 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	0	→
RPV PRESSURE	psig	40	→
RPV WATER LEVEL	inches	0	↘
DRYWELL TEMP	deg F	175	→
TORUS WATER TEMP	deg F	119	→
TORUS WATER LEVEL	inches	133	→
DRYWELL PRESSURE	psig	1.8	→
TORUS PRESSURE	psig	1.8	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

EP-5210-689

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: Manual

Mode Switch: S/D Refuel / SU/HSB Run

SBLC PUMPS: A insrvc avail oos; B insrvc avail oos

SBLC TK LVL: 4300 gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos; D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A: insrvc avail oos; Loop Flow: _____ gpm

Loop B: insrvc avail oos; Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
- Loop A: A insrvc avail oos; B insrvc avail oos; C insrvc avail oos
- Loop B: D insrvc avail oos; E insrvc avail oos; F insrvc avail oos

SSW Pumps
- Loop A: A insrvc avail oos; B insrvc avail oos
- Loop B: D insrvc avail oos; E insrvc avail oos
- Swing: C insrvc avail oos

TBCCW Pumps: A insrvc avail oos; B insrvc avail oos

Sea Water Pumps: A insrvc avail oos; B insrvc avail oos

7 HPCI

insrvc avail oos

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc avail oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
- A insrvc avail oos; 0 % speed
- B insrvc avail oos; 0 % speed

10 CRD

CRD Pumps
- A insrvc avail oos
- B insrvc avail oos

11 SBGT

- A insrvc avail oos
- B insrvc avail oos

12 FEED/COND

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

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

CST Level
- A 25 ft.
- B 25 ft.

13 RB VENT

insrvc isolated

RB d/p 0 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	0	→
RPV PRESSURE	psig	38	→
RPV WATER LEVEL	inches	-55	↘
DRYWELL TEMP	deg F	173	→
TORUS WATER TEMP	deg F	119	→
TORUS WATER LEVEL	inches	133	→
DRYWELL PRESSURE	psig	1.6	→
TORUS PRESSURE	psig	1.6	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

CP-IP-210 9/86

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: Manual

Mode Switch: S/D Refuel / SU/HSB Run

SBLC PUMPS: A insrvc avail OOS; B insrvc avail OOS

SBLC TK LVL: 4300 gallons

3 RHR

Mode

Loop A: A insrvc avail OOS; C insrvc avail OOS

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail OOS; D insrvc avail OOS

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A: insrvc avail OOS
Loop Flow: _____ gpm

Loop B: insrvc avail OOS
Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail OOS; B insrvc avail OOS
Loop B: C insrvc avail OOS; D insrvc avail OOS; E insrvc avail OOS; F insrvc avail OOS

SSW Pumps
Loop A: A insrvc avail OOS; B insrvc avail OOS
Loop B: D insrvc avail OOS; E insrvc avail OOS
Swing: C insrvc avail OOS

TBCCW Pumps: A insrvc avail OOS; B insrvc avail OOS

Sea Water Pumps: A insrvc avail OOS; B insrvc avail OOS

7 HPCI

insrvc avail OOS

☐ Pressure Control
☐ Level Control

8 RCIC

insrvc avail OOS

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail OOS
0 % speed
B insrvc avail OOS
0 % speed

10 CRD

CRD Pumps
A insrvc avail OOS
B insrvc avail OOS

11 SBGT

A insrvc avail OOS
B insrvc avail OOS

12 FEED/COND

Cond Pumps: A insrvc avail OOS; B insrvc avail OOS; C insrvc avail OOS

Feed Pumps: A insrvc avail OOS; B insrvc avail OOS; C insrvc avail OOS

CST Level: A 25 ft.; B 25 ft.

13 RB VENT

insrvc isolated

RB d/p 0 inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	0	→
RPV PRESSURE	psig	38	→
RPV WATER LEVEL	inches	-120	↘
DRYWELL TEMP	deg F	173	→
TORUS WATER TEMP	deg F	119	→
TORUS WATER LEVEL	inches	133	→
DRYWELL PRESSURE	psig	1.6	→
TORUS PRESSURE	psig	1.6	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

EP-IP-215 9/89

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch: S/D [Refuel] SU/HSB Run

SBLC PUMPS A insrvc avail [oos]

SBLC PUMPS B insrvc avail [oos]

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail [oos]; C insrvc avail [oos]

Loop Flow ________ gpm

Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

Loop B: B insrvc avail [oos]; D insrvc avail [oos]

Loop Flow ________ gpm

Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

4 CS

Loop A: insrvc avail [oos]

Loop Flow: ________ gpm

Loop B: insrvc avail [oos]

Loop Flow: ________ gpm

5 PCIS

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

Bypassed ________

6 COOLING WATER

RBCCW Pumps

- Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
- Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps

- Loop A: A insrvc avail [oos]; B insrvc avail [oos]
- Loop B: D insrvc avail [oos]; E insrvc avail [oos]
- Swing: C insrvc avail [oos]

TBCCW Pumps: A insrvc avail [oos]; B insrvc avail [oos]

Sea Water Pumps: A insrvc avail [oos]; B insrvc avail [oos]

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps A insrvc avail [oos]

0 % speed

B insrvc avail [oos]

0 % speed

10 CRD

CRD Pumps A insrvc avail [oos]

CRD Pumps B insrvc avail [oos]

11 SBGT

A insrvc avail [oos]

B insrvc avail [oos]

12 FEED/COND

Cond Pumps A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]

Feed Pumps A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]

CST Level A *25* ft.; B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *0* inches H_2O

CRITICAL PARAMETERS

CRITICAL PARAMETERS		TIME	TREND ↑ → ↓
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*35*	→
RPV WATER LEVEL	inches	*-160*	↘
DRYWELL TEMP	deg F	*173*	→
TORUS WATER TEMP	deg F	*119*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*1.6*	→
TORUS PRESSURE	psig	*1.6*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

91-05-A CR-44 ET 0610

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: *Manual*

Mode Switch: S/D [Refuel] SU/HSB Run

SBLC PUMPS: A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL: *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos; D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A insrvc avail oos; B insrvc avail oos
Loop B: D insrvc avail [oos]; E insrvc avail oos
Swing: C insrvc avail oos

TBCCW Pumps: A insrvc avail oos; B insrvc avail oos

Sea Water Pumps: A insrvc avail oos; B insrvc avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc avail [oos]
0 % speed
B insrvc avail [oos]
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A insrvc avail oos
B insrvc avail oos

12 FEED/COND

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

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft
B *25* ft

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*35*	→
RPV WATER LEVEL	inches	*-200*	↘
DRYWELL TEMP	deg F	*173*	→
TORUS WATER TEMP	deg F	*119*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*1.5*	→
TORUS PRESSURE	psig	*1.5*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

EP-IP-210 9/89

1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: *Manual*

Mode Switch: S/D [Refuel] SU/HSB Run

SBLC PUMPS: A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL: *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos; D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]

Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps Loop A: A insrvc avail oos; B insrvc avail oos

Loop B: D insrvc avail [oos]; E insrvc avail oos

Swing: C insrvc avail oos

TBCCW Pumps: A insrvc avail oos; B insrvc avail oos

Sea Water Pumps: [illegible] insrvc avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps A: insrvc avail oos; *0* % speed

B: insrvc avail oos; *0* % speed

10 CRD

CRD Pumps A: insrvc avail oos

B: insrvc avail oos

11 SBGT

A [insrvc] avail oos

B insrvc [avail] oos

12 FEED/COND

Cond Pumps A: insrvc avail oos; B: insrvc avail oos; C: insrvc avail oos

Feed Pumps A: insrvc [avail] oos; B: insrvc [avail] oos; C: insrvc [avail] oos

CST Level: A *25* ft.; B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*25*	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	*170*	→
TORUS WATER TEMP	deg F	*118*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*1.3*	→
TORUS PRESSURE	psig	*1.3*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch: S/D [Refuel]; SU/HSB Run

SBLC PUMPS A insrvc [avail] oos

SBLC PUMPS B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos — Torus Cooling, DW Spray, Torus Spray, LPCI, SDC

Loop Flow ______ gpm

Loop B: B insrvc avail oos; D insrvc avail oos — Torus Cooling, DW Spray, Torus Spray, LPCI, SDC

Loop Flow ______ gpm

4 CS

Loop A: insrvc avail oos

Loop Flow: ______ gpm

Loop B: insrvc avail oos

Loop Flow: ______ gpm

5 PCIS

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

Bypassed ______

6 COOLING WATER

RBCCW Pumps

Loop	Pump	Status
Loop A	A	insrvc avail [oos]
	B	insrvc avail [oos]
	C	insrvc avail [oos]
Loop B	D	insrvc avail [oos]
	E	insrvc avail [oos]
	F	insrvc avail [oos]

SSW Pumps

Loop	Pump	Status
Loop A	A	insrvc avail oos
	B	insrvc avail oos
Loop B	D	insrvc avail [oos]
	E	insrvc avail oos
Swing	C	insrvc avail oos

TBCCW Pumps: A insrvc avail oos; B insrvc avail oos

Sea Water Pumps: A insrvc avail oos; B insrvc avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps A insrvc avail oos — *0* % speed

B insrvc avail oos — *0* % speed

10 CRD

CRD Pumps A insrvc avail oos

B insrvc avail oos

11 SBGT

A [insrvc] avail oos

B insrvc [avail] oos

12 FEED/COND

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

CST Level A *25* ft.

B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

Parameter	Unit	TIME	TREND ↑ → ↓
REACTOR POWER	%	0	→
RPV PRESSURE	psig	20	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	168	→
TORUS WATER TEMP	deg F	117	→
TORUS WATER LEVEL	inches	133	→
DRYWELL PRESSURE	psig	1.2	→
TORUS PRESSURE	psig	1.2	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal: *Manual*

Mode Switch: S/D [Refuel] SU/HSB Run

SBLC PUMPS: A insrvc [avail] oos; B insrvc [avail] oos

SBLC TK LVL: *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos; C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

Loop B: B insrvc avail oos; D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

4 CS

Loop A: insrvc avail oos

Loop Flow: _____ gpm

Loop B: insrvc avail oos

Loop Flow: _____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps — Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]

Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps — Loop A: A insrvc avail oos; B insrvc avail oos

Loop B: D insrvc avail [oos]; E insrvc avail oos

Swing: C insrvc avail oos

TBCCW Pumps: A insrvc avail oos; B insrvc avail oos

Sea Water Pumps: A insrvc avail oos; B insrvc avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps — A insrvc avail oos; *0* % speed

B insrvc avail oos; *0* % speed

10 CRD

CRD Pumps — A insrvc avail oos; B insrvc avail oos

11 SBGT

A [insrvc] avail oos

B insrvc [avail] oos

12 FEED/COND

Cond Pumps — A insrvc avail oos; B insrvc avail oos; C insrvc avail oos

Feed Pumps — A insrvc [avail] oos; B insrvc [avail] oos; C insrvc [avail] oos

CST Level: A *25* ft; B *25* ft

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*18*	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	*168*	→
TORUS WATER TEMP	deg F	*117*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*1.2*	→
TORUS PRESSURE	psig	*1.2*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal *Manual*
Mode Switch S/D [Refuel] SU/HSB Run
SBLC PUMPS A insrvc [avail] oos
SBLC PUMPS B insrvc [avail] oos
SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos
Loop Flow ______ gpm
Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

Loop B: B insrvc avail oos
D insrvc avail oos
Loop Flow ______ gpm
Torus Cooling / DW Spray / Torus Spray / LPCI / SDC

4 CS

Loop A: insrvc avail oos
Loop Flow: ______ gpm

Loop B: insrvc avail oos
Loop Flow: ______ gpm

5 PCIS

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

Bypassed ______

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]; B insrvc avail [oos]; C insrvc avail [oos]
Loop B: D insrvc avail [oos]; E insrvc avail [oos]; F insrvc avail [oos]

SSW Pumps
Loop A: A insrvc avail oos; B insrvc avail oos
Loop B: D insrvc avail [oos]; E insrvc avail oos
Swing: C insrvc avail oos

TBCCW Pumps
A insrvc avail oos
B insrvc avail oos

Sea Water Pumps
A insrvc avail oos
B insrvc avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps A insrvc [avail] oos
0 % speed
B insrvc [avail] oos
0 % speed

10 CRD

CRD Pumps A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

Cond Pumps A insrvc avail oos
B insrvc avail oos
C insrvc avail oos
Feed Pumps A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos
CST Level A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]
RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

CRITICAL PARAMETERS		TIME	TREND ↑ → ↓
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*14*	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	*167*	→
TORUS WATER TEMP	deg F	*116*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*1.2*	→
TORUS PRESSURE	psig	*1.2*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip
~~al Manual

Mode Switch	S/D SU/HSB	Refuel Run
SBLC PUMPS	A	insrvc avail oos
	B	insrvc avail oos

SBLC TK LVL 4300 gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos
Loop Flow ______ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos
Loop Flow ______ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
______ gpm

Loop B:
insrvc avail oos
Loop Flow:
______ gpm

5 PCIS

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

Bypassed ______

6 COOLING WATER

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

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

7 HPCI

insrvc avail oos

☐ Pressure Control
☐ Level Control

8 RCIC

insrvc avail oos

☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps A insrvc avail oos
0 % speed
B insrvc avail oos
0 % speed

10 CRD

CRD Pumps A insrvc avail oos
B insrvc avail oos

11 SBGT

A insrvc avail oos
B insrvc avail oos

12 FEED/COND

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

CST Level A 25 ft.
B 25 ft.

13 RB VENT

insrvc isolated

RB d/p -0.25 inches H_2O

CRITICAL PARAMETERS

CRITICAL PARAMETERS		TIME	TREND ↑ → ↓
REACTOR POWER	%	0	→
RPV PRESSURE	psig	10	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	165	→
TORUS WATER TEMP	deg F	116	→
TORUS WATER LEVEL	inches	133	→
DRYWELL PRESSURE	psig	1.1	→
TORUS PRESSURE	psig	1.1	→
CONTAIN. H_2 CONC.	%	0	→
CONTAIN. O_2 CONC.	%	2	→

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1 AC POWER SOURCES

UAT insrvc [avail] oos

S/U XFMR [insrvc] avail oos

S/D XFMR insrvc [avail] oos

EDG A insrvc avail [oos]

EDG B insrvc [avail] oos

BODG insrvc avail oos

2 SAFEGUARDS

Rx Trip Signal *Manual*

Mode Switch S/D [Refuel] SU/HSB Run

SBLC PUMPS A insrvc [avail] oos

B insrvc [avail] oos

SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos

Loop Flow _____ gpm

Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]
B insrvc avail [oos]
C insrvc avail [oos]
Loop B: D insrvc avail [oos]
E insrvc avail [oos]
F insrvc avail [oos]

SSW Pumps
Loop A: A insrvc avail oos
B insrvc avail oos
Loop B: D insrvc avail [oos]
E insrvc avail oos
Swing: C insrvc avail oos

TBCCW Pumps
A insrvc avail oos
B insrvc avail oos

Sea Water Pumps
A insrvc avail oos
B insrvc avail oos

7 HPCI

insrvc avail [oos]

☐ Pressure Control

☐ Level Control

8 RCIC

insrvc [avail] oos

☐ Pressure Control

☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc [avail] oos
0 % speed
B insrvc [avail] oos
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

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

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]

RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*4*	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	*158*	→
TORUS WATER TEMP	deg F	*115*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*.9*	→
TORUS PRESSURE	psig	*.9*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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1 AC POWER SOURCES

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

2 SAFEGUARDS

Rx Trip Signal *Manual*
Mode S/D [Refuel]
Switch SU/HSB Run
SBLC A insrvc [avail] oos
PUMPS B insrvc [avail] oos
SBLC TK LVL *4300* gallons

3 RHR

Mode

Loop A: A insrvc avail oos
C insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

Loop B: B insrvc avail oos
D insrvc avail oos
Loop Flow _____ gpm
Torus Cooling
DW Spray
Torus Spray
LPCI
SDC

4 CS

Loop A:
insrvc avail oos
Loop Flow:
_____ gpm

Loop B:
insrvc avail oos
Loop Flow:
_____ gpm

5 PCIS

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

Bypassed _____

6 COOLING WATER

RBCCW Pumps
Loop A: A insrvc avail [oos]
B insrvc avail [oos]
C insrvc avail [oos]
Loop B: D insrvc avail [oos]
E insrvc avail [oos]
F insrvc avail [oos]

SSW Pumps
Loop A: A insrvc avail oos
B insrvc avail oos
Loop B: D insrvc avail [oos]
E insrvc avail oos
Swing: C insrvc avail oos

TBCCW Pumps
A insrvc avail oos
B insrvc avail oos

Sea Water Pumps
A insrvc avail oos
B insrvc avail oos

7 HPCI

insrvc avail [oos]
☐ Pressure Control
☐ Level Control

8 RCIC

insrvc [avail] oos
☐ Pressure Control
☐ Level Control

9 RECIRC

Recirc Pumps
A insrvc [avail] oos
0 % speed
B insrvc [avail] oos
0 % speed

10 CRD

CRD Pumps
A insrvc avail oos
B insrvc avail oos

11 SBGT

A [insrvc] avail oos
B insrvc [avail] oos

12 FEED/COND

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

Feed Pumps
A insrvc [avail] oos
B insrvc [avail] oos
C insrvc [avail] oos

CST Level
A *25* ft.
B *25* ft.

13 RB VENT

insrvc [isolated]
RB d/p *-0.25* inches H_2O

CRITICAL PARAMETERS

		TIME	TREND
REACTOR POWER	%	*0*	→
RPV PRESSURE	psig	*2*	→
RPV WATER LEVEL	inches		
DRYWELL TEMP	deg F	*155*	→
TORUS WATER TEMP	deg F	*115*	→
TORUS WATER LEVEL	inches	*133*	→
DRYWELL PRESSURE	psig	*.9*	→
TORUS PRESSURE	psig	*.9*	→
CONTAIN. H_2 CONC.	%	*0*	→
CONTAIN. O_2 CONC.	%	*2*	→

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Section 8

RADIOLOGICAL AND METEOROLOGICAL INFORMATION

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
1991 EVALUATED EXERCISE 91-05A

NOTE

RADIOLOGICAL MEASUREMENTS NOT INCORPORATED
IN THIS SECTION SHALL BE GIVEN AS READ

Section 8.0
Radiological Assumptions

8.0 Radiological Assumptions

1. Radioactive material released (simulated) will consist primarily of noble gases. Noble gas and Iodine relative abundances will be consistent with the release of approximately 12% core melt activity, as determined using EP-IP-330, "Core Damage".

2. The dispersion factors used to calculate offsite data are those derived for use with PNPS Emergency Dose Assessment Program (EDAP) centerline values.

3. No filter credit is given for noble gases. Filter efficiency for Iodine removal is assumed to be 99%. Filter efficiency for particulates is greater than 99.9%.

4. Stack release concentrations are based upon a release flow rate of 20,000 CFM. This is consistent with the isolation of the reactor building ventilation, initiation of the Stand-By GasTreatment System, and continued use of Waste Building, Off Gas Building, and Turbine Building (high) fans.

5. Field survey data:
   a. The downwind gamma and child thyroid doses were determined using EDAP centerline values.

   b. All survey values are rounded off to provide realistic survey meter responses.

   c. Air sample results (iodine and particulate gross CPM) are calculated utilizing EP-IP-440. Iodine concentrations are used with an air sample volume of 20 cu. ft., and assumed background level of 50 CPM, Sam II efficiency of 1.5%, and RM-14 efficiency of 10%.

   d. Assume ground level dose rates (mR/hr) are equal to waist level dose rates until after the plume has passed.

6. Inplant data:
   a. The fractions for the various radionuclides are those listed in NEDO -22215 "Procedure for the Determination of Core Damage Under Accident Conditions" for a fuel gap release.

   b. Immersion dose rates were developed by calculating a centerpoint dose in a semi-infinite cloud of noble gases, utilizing the formula:

$$D = X_i \, DF_i$$

where:

D = gamma air dose
Xi = concentration of nuclide i
DFi = dose factor for exposure to a semi-infinite cloud of nuclide i.

Dose factors were obtained from Regulatory Guide 1.109, Table B-1, pp. 1.109-21.

Where appropriate, dose rates from affected plant systems are calculated using point, line, and plane source equations. The dose contributions are also reflected on the affected area radiation monitor readings.

c. Air sample results were determined as described in item 5-c.

d. Dose rates from post-accident samples were calculated using the Radiological Health Handbook rule of thumb: R/hr at 1 foot = 5.64xCxE, 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 lead pig is used.

e. It is assumed in this exercise that the reactor coolant reaches a maximum concentration prior to the restoration of power and subsequent reflood. This results in significant core damage. The maximum concentration is reduced by dilution, leakage, and decay during the time remaining in the scenario.

f. All core damage assessment was calculated using EP-IP-330 "Core Damage" assessment procedure. It is assumed the reactor has been operating for 180 days with no shutdown.

g. Onsite data will be provided to plant teams only when they perform appropriate tasks and request specific information.

Section 8.1
Meteorological Information

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	160	5.0	161	5.0	162	5.0	-1.8	48
00:15	160	5.0	161	5.0	162	5.0	-1.8	48
00:30	160	5.0	161	5.0	162	5.0	-1.8	48
00:40	160	5.0	161	5.0	162	5.0	-1.8	48
00:45	160	5.0	161	5.0	162	5.0	-1.8	48
01:00	160	5.0	161	5.0	162	5.0	-1.8	48
01:15	160	5.0	161	5.0	162	5.0	-1.8	49
01:30	160	5.0	161	5.0	162	5.0	-1.8	49
01:45	160	5.0	161	5.0	162	5.0	-1.8	49
02:00	160	5.0	161	5.0	162	5.0	-1.8	49
02:15	160	5.0	161	5.0	162	5.0	-1.8	49
02:30	160	5.0	161	5.0	162	5.0	-1.8	49
02:45	160	5.0	161	5.0	162	5.0	-1.8	50
03:00	160	5.0	161	5.0	162	5.0	-1.8	50
03:15	160	5.0	161	5.0	162	5.0	-1.8	50
03:30	160	5.0	161	5.0	162	5.0	-1.8	50
03:45	160	5.0	161	5.0	162	5.0	-1.8	50
04:00	160	5.0	161	5.0	162	5.0	-1.8	50
04:15	160	5.0	161	5.0	162	5.0	-1.8	50
04:30	160	5.0	161	5.0	162	5.0	-1.8	50
04:45	160	5.0	161	5.0	162	5.0	-1.8	51
05:00	160	5.0	161	5.0	162	5.0	-1.8	51
05:15	160	5.0	161	5.0	162	5.0	-1.8	51
05:30	160	5.0	161	5.0	162	5.0	-1.8	51
05:45	160	5.0	161	5.0	162	5.0	-1.8	51
06:00	160	5.0	161	5.0	162	5.0	-1.8	51
06:10	160	5.0	161	5.0	162	5.0	-1.8	51
06:15	160	5.5	161	5.5	162	5.5	-1.8	51
06:20	160	5.5	161	5.5	162	5.5	-1.8	51
06:25	160	6.0	161	6.0	162	6.0	-1.8	52
06:30	160	6.0	161	6.0	162	6.0	-1.8	52
06:45	160	6.0	161	6.0	162	6.0	-1.8	52
07:00	160	6.5	161	6.5	162	6.5	-1.8	52
07:15	160	7.0	161	7.0	162	7.0	-1.8	52
07:30	160	7.5	161	7.5	162	7.5	-1.8	52
07:45	160	7.5	161	7.5	162	7.5	-1.8	52
08:00	160	8.0	161	8.0	162	8.0	-1.8	52
End	160	8.0	161	8.0	162	8.0	-1.8	52

Table 8.1-1

Vent and Flow Data

Scenario Time	SBGT CFM	RB Vent CFM	Main Stack CFM	TB Vent CFM
00:00	ISOLATED	105,000	16,000	140,000
00:15	ISOLATED	105,000	16,000	140,000
00:30	ISOLATED	105,000	16,000	140,000
00:40	8,000	ISOLATED	20,000	140,000
00:45	4,000	ISOLATED	20,000	140,000
01:00	4,000	ISOLATED	20,000	140,000
01:15	4,000	ISOLATED	20,000	140,000
01:30	4,000	ISOLATED	20,000	140,000
01:45	4,000	ISOLATED	20,000	140,000
02:00	4,000	ISOLATED	20,000	140,000
02:15	4,000	ISOLATED	20,000	140,000
02:30	4,000	ISOLATED	20,000	140,000
02:45	4,000	ISOLATED	20,000	140,000
03:00	4,000	ISOLATED	20,000	140,000
03:15	4,000	ISOLATED	20,000	140,000
03:30	4,000	ISOLATED	20,000	140,000
03:45	4,000	ISOLATED	20,000	140,000
04:00	4,000	ISOLATED	20,000	140,000
04:15	4,000	ISOLATED	20,000	140,000
04:30	4,000	ISOLATED	20,000	140,000
04:45	4,000	ISOLATED	20,000	140,000
05:00	OOS	OOS	OOS	OOS
05:15	OOS	OOS	OOS	OOS
05:30	OOS	OOS	OOS	OOS
05:45	OOS	OOS	OOS	OOS
06:00	OOS	OOS	OOS	OOS
06:10	4,000	ISOLATED	20,000	140,000
06:15	4,000	ISOLATED	20,000	140,000
06:20	4,000	ISOLATED	20,000	140,000
06:25	4,000	ISOLATED	20,000	140,000
06:30	4,000	ISOLATED	20,000	140,000
06:45	4,000	ISOLATED	20,000	140,000
07:00	4,000	ISOLATED	20,000	140,000
07:15	4,000	ISOLATED	20,000	140,000
07:30	4,000	ISOLATED	20,000	140,000
07:45	4,000	ISOLATED	20,000	140,000
08:00	4,000	ISOLATED	20,000	140,000
End	4,000	ISOLATED	20,000	140,000

Table 8.1-2

FROM: Dose Assessment Controller MESSAGE No.: 1M

TO: DOSE ASSESSMENT ENGINEER CLOCK TIME:
ELAPSED TIME: 0100

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller MESSAGE No.: 2M

TO: DOSE ASSESSMENT ENG !EER CLOCK TIME:
ELAPSED TIME: 0200

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller MESSAGE No.: 3M

TO: DOSE ASSESSMENT ENGINEER CLOCK TIME:
ELAPSED TIME: 0300

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller MESSAGE No.: 4M

TO: DOSE ASSESSMENT ENGINEER CLOCK TIME:
ELAPSED TIME: 0400

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller MESSAGE No.: 5M

TO: DOSE ASSESSMENT ENGINEER CLOCK TIME:
ELAPSED TIME: 0500

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This morning clear with high temperatures 40 to 45. Winds from the SSE 5 to 10 MPH. 20 % chance of pre ation.

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller MESSAGE No.: 6M

TO: DOSE ASSESSMENT ENGINEER CLOCK TIME:
ELAPSED TIME: 0600

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller MESSAGE No.: 7M

TO: DOSE ASSESSMENT ENGINEER CLOCK TIME:
ELAPSED TIME: 0700

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

FROM: Dose Assessment Controller

MESSAGE No.: 8M

TO: DOSE ASSESSMENT ENGINEER

CLOCK TIME:
ELAPSED TIME: 0800

LOCATION: EOF

PARTICIPANT MESSAGE

SOUTHERN NEW ENGLAND ZONE FORECASTS
NATIONAL WEATHER SERVICE BOSTON MA

GREATER BOSTON METROPOLITAN AREA
NORTHEASTERN COASTAL
SOUTHEASTERN MA

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

CAPE COD AND THE ISLANDS
SOUTH COASTAL
COASTAL RI

This afternoon partly cloudy with high temperatures 45 to 50. Winds from the SSE 5 to 10 MPH. 20 % chance of precipitation.

Tonight partly cloudy with low temperatures 35 to 40. Winds from the South 3 to 8 MPH. 20 % chance of precipitation.

Tomorrow increasing cloudiness with high temperatures 45 to 50. Winds from the South 5 to 10 MPH. 40 % chance of precipitation.

Long range forecast overcast skies with high temperatures 40 to 50 and low temperatures 35 to 45. Winds will shift from the SSW 5 to 10 MPH.

Section 8.2
Area and Process Monitors

AREA RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-1.1

ID No.	LOCATION (Units) ELAPSED TIME:	00:00	00:15	00:25	00:30	00:40	00:45	01:00	01:15	01:30
1705-60	AOG 5' CHARCOAL VAULT AREA (mR/hr)	100	100	100	100	100	100	100	100	100
ARM-1	TB 3' COND. PUMP STAIR (mR/hr)	10	10	10	10	10	10	10	10	10
ARM-2	TB 6' FEEDWATER HEATERS (mR/hr)	110	110	110	110	100	100	98	92	86
ARM-3	TB 37' MAIN CONTROL ROOM (mR/hr)	DS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-4	TB 51' TURBINE FRONT STANDARD (mR/hr)	300	300	300	300	290	280	250	230	210
ARM-5	RW 1' RADWASTE-CORRIDOR (mR/hr)	12	12	12	12	12	12	12	12	12
ARM-6	RW13' RADWASTE-SUMP AREA (mR/hr)	60	60	60	60	60	60	60	60	60
ARM-7	RW 1' CHEM. WASTE TANK (mR/hr)	6	6	6	6	6	6	6	6	6
ARM-8	RB 23' RX-OUTSIDE TIP ROOM (mR/hr)	2	2	2	2	2	2	2	2	2
ARM-9	TB 23' RADWASTE SHIP. LOCK (mR/hr)	DS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-10	RB 23' RX ACCESS AREA S.E. (mR/hr)	6	6	6	6	6	6	6	6	6
ARM-11	RB 117' NEW FUEL RACKS (mR/hr)	5	5	5	5	5	5	5	5	5
ARM-12	RB 93' NEW FUEL VAULT (mR/hr)	DS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-13	RB117' SHIELD PLUG AREA (mR/hr)	3	3	3	3	3	3	3	3	3
ARM-14	RB117' SPENT FUEL POOL AREA (mR/hr)	10	10	10	10	10	10	10	10	10

AREA RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-1.2

ID No.	LOCATION (Units)	ELAPSED TIME:	01:45	02:00	02:15	02:30	02:45	03:00	03:15	03:30	03:45
1705-60	AOG 5' CHARCOAL VAULT AREA (mR/hr)		100	100	100	100	100	100	100	100	100
ARM-1	TB 3' COND. PUMP STAIR (mR/hr)		10	10	1	10	10	10	10	10	10
ARM-2	TB 6' FEEDWATER HEATERS (mR/hr)		80	76	72	67	63	59	56	52	49
ARM-3	TB 37' MAIN CONTROL ROOM (mR/hr)		DS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-4	TB 51' TURBINE FRONT STANDARD (mR/hr)		190	170	150	140	130	120	110	98	88
ARM-5	RW 1' RADWASTE-CORRIDOR (mR/hr)		12	12	12	12	12	12	12	12	12
ARM-6	RW13' RADWASTE-SUMP AREA (mR/hr)		60	60	60	60	60	60	60	60	60
ARM-7	RW 1' CHEM. WASTE TANK (mR/hr)		6	6	6	6	6	6	6	6	6
ARM-8	RB 23' RX-OUTSIDE TIP ROOM (mR/hr)		2	2	2	2	2	2	2	2	3
ARM-9	TB 23' RADWASTE SHIP. LOCK (mR/hr)		DS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-10	RB 23' RX ACCESS AREA S.E. (mR/hr)		6	6	6	6	6	6	6	12	15
ARM-11	RB 117' NEW FUEL RACKS (mR/hr)		5	5	5	5	5	5	5	5	5
ARM-12	RB 93' NEW FUEL VAULT (mR/hr)		DS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-13	RB117' SHIELD PLUG AREA (mR/hr)		3	3	3	3	3	3	3	3	3
ARM-14	RB117' SPENT FUEL POOL AREA (mR/hr)		10	10	10	10	10	10	10	10	10

AREA RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-1.3

ID No.	LOCATION (Units) ELAPSED TIME:	04:00	04:15	04:30	04:45	05:00	05:15	05:30	05:45	06:00
1705-60	AOG 5' CHARCOAL VAULT AREA (mR/hr)	100	100	100	100	OOS	OOS	OOS	OOS	OOS
ARM-1	TB 3' COND. PUMP STAIR (mR/hr)	10	10	10	10	OOS	OOS	OOS	OOS	OOS
ARM-2	TB 6' FEEDWATER HEATERS (mR/hr)	47	44	42	39	OOS	OOS	OOS	OOS	OOS
ARM-3	TB 37' MAIN CONTROL ROOM (mR/hr)	DS	DS	DS	DS	OOS	OOS	OOS	OOS	OOS
ARM-4	TB 51' TURBINE FRONT STANDARD (mR/hr)	80	76	67	61	OOS	OOS	OOS	OOS	OOS
ARM-5	RW 1' RADWASTE-CORRIDOR (mR/hr)	12	12	12	12	OOS	OOS	OOS	OOS	OOS
ARM-6	RW13' RADWASTE-SUMP AREA (mR/hr)	60	60	60	60	OOS	OOS	OOS	OOS	OOS
ARM-7	RW 1' CHEM. WASTE TANK (mR/hr)	6	6	6	6	OOS	OOS	OOS	OOS	OOS
ARM-8	RB 23' RX-OUTSIDE TIP ROOM (mR/hr)	5	9	11	15	OOS	OOS	OOS	OOS	OOS
ARM-9	TB 23' RADWASTE SHIP. LOCK (mR/hr)	DS	DS	DS	DS	OOS	OOS	OOS	OOS	OOS
ARM-10	RB 23' RX ACCESS AREA S.E. (mR/hr)	17	20	20	18	OOS	OOS	OOS	OOS	OOS
ARM-11	RB 117' NEW FUEL RACKS (mR/hr)	5	5	5	5	OOS	OOS	OOS	OOS	OOS
ARM-12	RB 93' NEW FUEL VAULT (mR/hr)	DS	DS	DS	DS	OOS	OOS	OOS	OOS	OOS
ARM-13	RB117' SHIELD PLUG AREA (mR/hr)	3	3	3	3	OOS	OOS	OOS	OOS	OOS
ARM-14	RB117' SPENT FUEL POOL AREA (mR/hr)	10	10	10	10	OOS	OOS	OOS	OOS	OOS

AREA RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-1.4

ID No.	LOCATION (Units)	ELAPSED TIME:	06:10	06:15	06:20	06:25	06:30	06:45	07:00	07:15	07:30
1705-60	AOG 5' CHARCOAL VAULT AREA (mR/hr)		OOS	100	100	100	100	100	100	100	100
ARM-1	TB 3' COND. PUMP STAIR (mR/hr)		OOS	10	10	10	10	10	10	10	10
ARM-2	TB 6' FEEDWATER HEATERS (mR/hr)		OOS	27	26	25	25	24	23	21	20
ARM-3	TB 37' MAIN CONTROL ROOM (mR/hr)		OOS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-4	TB 51' TURBINE FRONT STANDARD (mR/hr)		OOS	35	34	33	32	29	27	24	22
ARM-5	RW 1' RADWASTE-CORRIDOR (mR/hr)		OOS	12	12	12	12	12	12	12	12
ARM-6	RW13' RADWASTE-SUMP AREA (mR/hr)		OOS	60	60	60	60	60	60	60	60
ARM-7	RW 1' CHEM. WASTE TANK (mR/hr)		OOS	6	6	6	6	6	6	6	6
ARM-8	RB 23' RX-OUTSIDE TIP ROOM (mR/hr)		OOS	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
ARM-9	TB 23' RADWASTE SHIP. LOCK (mR/hr)		OOS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-10	RB 23' RX ACCESS AREA S.E. (mR/hr)		OOS	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
ARM-11	RB 117' NEW FUEL RACKS (mR/hr)		OOS	5	5	5	5	5	5	5	5
ARM-12	RB 93' NEW FUEL VAULT (mR/hr)		OOS	DS	DS	DS	DS	DS	DS	DS	DS
ARM-13	RB117' SHIELD PLUG AREA (mR/hr)		OOS	3	3	3	3	3	3	3	3
ARM-14	RB117' SPENT FUEL POOL AREA (mR/hr)		OOS	10	10	10	10	10	10	10	10

AREA RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-1.5

ID No.	LOCATION (Units)	ELAPSED TIME:	07:45	08:00	End
1705-60	AOG 5' CHARCOAL VAULT AREA (mR/hr)		100	100	100
ARM-1	TB 3' COND. PUMP STAIR (mR/hr)		10	10	10
ARM-2	TB 6' FEEDWATER HEATERS (mR/hr)		20	20	20
ARM-3	TB 37' MAIN CONTROL ROOM (mR/hr)		DS	DS	DS
ARM-4	TB 51' TURBINE FRONT STANDARD (mR/hr)		21	20	20
ARM-5	RW 1' RADWASTE-CORRIDOR (mR/hr)		12	12	12
ARM-6	RW13' RADWASTE-SUMP AREA (mR/hr)		60	60	60
ARM-7	RW 1' CHEM. WASTE TANK (mR/hr)		6	6	6
ARM-8	RB 23' RX-OUTSIDE TIP ROOM (mR/hr)		OSH	OSH	OSH
ARM-9	TB 23' RADWASTE SHIP. LOCK (mR/hr)		DS	DS	DS
ARM-10	RB 23' RX ACCESS AREA S.E. (mR/hr)		OSH	OSH	OSH
ARM-11	RB 117' NEW FUEL RACKS (mR/hr)		5	5	5
ARM-12	RB 93' NEW FUEL VAULT (mR/hr)		DS	DS	DS
ARM-13	RB117' SHIELD PLUG AREA (mR/hr)		3	3	3
ARM-14	RB117' SPENT FUEL POOL AREA (mR/hr)		10	10	10

PROCESS RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-2.1

ID No.	LOCATION (Units) ELAPSED TIME:	00:00	00:15	00:25	00:30	00:40	00:45	01:00	01:15	01:30
1705-18	ST 23' MAIN STACK LOW (CPS)	100	100	100	100	90	90	75	63	54
I001-608	ST 23' MAIN STACK HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-32	TB 51' REACTOR BLDG. VENT LOW (CPS)	35	35	35	35	35	35	35	35	35
I001-609	TB 51' REACTOR BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
I001-610	TB 51' TURBINE BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-2	RB 23' MAIN STEAM LINE A (mR/hr)	1000	1000	1000	1000	880	720	610	510	450
1705-2	RB 23' MAIN STEAM LINE B (mR/hr)	1000	1000	1000	1000	880	720	610	510	450
1705-2	RB 23' MAIN STEAM LINE C (mR/hr)	1000	1000	1000	1000	880	720	610	510	450
1705-2	RB 23' MAIN STEAM LINE D (mR/hr)	1000	1000	1000	1000	880	720	610	510	450
1705-3	TB 3' AIR EJECTOR OFF GAS (mR/hr)	1300	1650	2000	2350	2300	2250	1800	1550	1250
1705-4	AB 23' A Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-4	AB 23' B Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-8	RB 117' REFUEL FLOOR VENT (mR/hr)	5	5	5	5	5	5	5	5	5
1705-9	TB 51' STANDBY GAS TREATMENT(mR/hr)	6	6	6	6	6	6	6	6	6
1705-16	TB 37' CONTROL ROOM AIR (mR/hr)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1705-30	RW 1' RADWASTE DISCHARGE (CPS)	4000	4000	4000	4000	4000	4000	4000	4000	4000
1705-5	AOG 23' OFF GAS POST TREATMENT(CPS)	5000	4700	4600	4500	4400	4300	4100	3800	3600
1001-606	DRYWELL CHARMS A (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1001-606	DRYWELL CHARMS B (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1001-607	TORUS CHARMS A (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1001-607	TORUS CHARMS B (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS

THIS IS A DRILL

PROCESS RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-2.2

ID No.	LOCATION (Units) ELAPSED TIME:	01:45	02:00	02:15	02:30	02:45	03:00	03:15	03:30	03:45
1705-18	ST 23' MAIN STACK LOW (CPS)	47	40	35	30	27	25	23	1000	1300
I001-608	ST 23' MAIN STACK HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-32	TB 51' REACTOR BLDG. VENT LOW (CPS)	35	35	35	35	35	35	35	40	40
I001-609	TB 51' REACTOR BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
I001-610	TB 51' TURBINE BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-2	RB 23' MAIN STEAM LINE A (mR/hr)	380	330	280	230	210	200	200	1250	470
1705-2	RB 23' MAIN STEAM LINE B (mR/hr)	380	330	280	230	210	200	200	1400	530
1705-2	RB 23' MAIN STEAM LINE C (mR/hr)	380	330	280	230	210	200	200	1500	560
1705-2	RB 23' MAIN STEAM LINE D (mR/hr)	380	330	280	230	210	200	200	1700	640
1705-3	TB 3' AIR EJECTOR OFF GAS (mR/hr)	925	750	625	575	525	475	425	375	325
1705-4	AB 23' A Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-4	AB 23' B Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-8	RB 117' REFUEL FLOOR VENT (mR/hr)	5	5	5	5	5	5	5	5	5
1705-9	TB 51' STANDBY GAS TREATMENT(mR/hr)	6	6	6	6	6	6	6	6	7
1705-16	TB 37' CONTROL ROOM AIR (mR/hr)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1705-30	RW 1' RADWASTE DISCHARGE (CPS)	4000	4000	4000	4000	4000	4000	4000	4000	4000
1705-5	AOG 23' OFF GAS POST TREATMENT(CPS)	3500	3300	3100	3000	2800	2700	2600	2400	2300
1001-606	DRYWELL CHARMS A (R/HR)	DS	DS	DS	DS	DS	DS	DS	1	1
1001-606	DRYWELL CHARMS B (R/HR)	DS	DS	DS	DS	DS	DS	DS	1	1
1001-607	TORUS C ARMS A (R/HR)	1	1	1	1	1	1	1	2	2
1001-607	TORUS C ARMS B (R/HR)	1	1	1	1	1	1	1	2	2

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PROCESS RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-2.3

ID No.	LOCATION (Units) ELAPSED TIME:	04:00	04:15	04:30	04:45	05:00	05:15	05:30	05:45	06:00
1705-18	ST 23' MAIN STACK LOW (CPS)	480	220	100	80	70	70	70	70	70
I001-608	ST 23' MAIN STACK HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-32	TB 51' REACTOR BLDG. VENT LOW (CPS)	40	40	40	40	40	40	40	40	40
I001-609	TB 51' REACTOR BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
I001-610	TB 51' TURBINE BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-2	RB 23' MAIN STEAM LINE A (mR/hr)	432	398	366	337	310	285	262	241	222
1705-2	RB 23' MAIN STEAM LINE B (mR/hr)	488	449	413	380	349	321	296	272	250
1705-2	RB 23' MAIN STEAM LINE C (mR/hr)	515	474	436	401	369	340	312	287	264
1705-2	RB 23' MAIN STEAM LINE D (mR/hr)	589	542	498	458	422	388	357	328	302
1705-3	TB 3' AIR EJECTOR OFF GAS (mR/hr)	300	300	300	300	300	300	300	300	300
1705-4	AB 23' A Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-4	AB 23' B Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-8	RB 117' REFUEL FLOOR VENT (mR/hr)	5	5	5	5	5	5	5	5	5
1705-9	TB 51' STANDBY GAS TREATMENT(mR/hr)	7	6	6	6	6	6	6	6	6
1705-16	TB 37' CONTROL ROOM AIR (mR/hr)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1705-30	RW 1' RADWASTE DISCHARGE (CPS)	4000	4000	4000	4000	4000	4000	4000	4000	4000
1705-5	AOG 23' OFF GAS POST TREATMENT(CPS)	2200	2100	2000	2000	2000	2000	2000	2000	2000
1001-606	DRYWELL CHARMS A (R/HR)	1	1	1	1	1	1	1	1	1
1001-606	DRYWELL CHARMS B (R/HR)	1	1	1	1	1	1	1	1	1
1001-607	TORUS CHARMS A (R/HR)	2	2	2	2	2	2	2	2	2
1001-607	TORUS CHARMS B (R/HR)	2	2	2	2	2	2	2	2	2

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PROCESS RADIATION MONITOR TREND

1991 EVALUATED EXERCISE

TABLE 8.2-2.4

ID No.	LOCATION (Units) ELAPSED TIME:	06:10	06:15	06:20	06:25	06:30	06:45	07:00	07:15	07:30
1705-18	ST 23' MAIN STACK LOW (CPS)	1900	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
I001-608	ST 23' MAIN STACK HIGH (R/HR)	DS	4	359	'60	378	330	100	30	8
1705-32	TB 51' REACTOR BLDG. VENT LOW (CPS)	40	40	40	40	40	40	40	40	40
I001-609	TB 51' REACTOR BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
I001-610	TB 51' TURBINE BLDG. VENT HIGH (R/HR)	DS	DS	DS	DS	DS	DS	DS	DS	DS
1705-2	RB 23' MAIN STEAM LINE A (mR/hr)	620	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
1705-2	RB 23' MAIN STEAM LINE B (mR/hr)	690	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
1705-2	RB 23' MAIN STEAM LINE C (mR/hr)	870	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
1705-2	RB 23' MAIN STEAM LINE D (mR/hr)	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
1705-3	TB 3' AIR EJECTOR OFF GAS (mR/hr)	300	300	300	300	300	300	300	300	300
1705-4	AB 23' A Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-4	AB 23' B Loop RBCCW (CPS)	1500	1500	1500	1500	1500	1500	1500	1500	1500
1705-8	RB 117' REFUEL FLOOR VENT (mR/hr)	5	5	5	5	5	5	5	5	5
1705-9	TB 51' STANDBY GAS TREATMENT(mR/hr)	10	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH
1705-16	TB 37' CONTROL ROOM AIR (mR/hr)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1705-30	RW 1' RADWASTE DISCHARGE (CPS)	4000	4000	4000	4000	4000	4000	4000	4000	4000
1705-5	AOG 23' OFF GAS POST TREATMENT(CPS)	2000	2000	2000	2000	2000	2000	2000	2000	2000
1001-606	DRYWELL CHARMS A (R/HR)	8	8	8	8	8	8	8	8	8
1001-606	DRYWELL CHARMS B (R/HR)	8	8	8	8	8	8	8	8	8
1001-607	TORUS CHARMS A (R/HR)	2	2	2	2	2	2	2	2	2
1001-607	TORUS CHARMS B (R/HR)	2	2	2	2	2	2	2	2	2

THIS IS A DRILL

PROCESS RADIATION MONITOR TREND

TABLE 8.2-2.5

ID No.	LOCATION (Units) ELAPSED TIME:	07:45	08:00	End
1705-18	ST 23' MAIN STACK LOW (CPS)	OSH	300000	1000
I001-608	ST 23' MAIN STACK HIGH (R/HR)	3	DS	DS
1705-32	TB 51' REACTOR BLDG. VENT LOW (CPS)	40	40	40
I001-609	TB 51' REACTOR BLDG. VENT HIGH (R/HR)	DS	DS	DS
I001-610	TB 51' TURBINE BLDG. VENT HIGH (R/HR)	DS	DS	DS
1705-2	RB 23' MAIN STEAM LINE A (mR/hr)	OSH	OSH	OSH
1705-2	RB 23' MAIN STEAM LINE B (mR/hr)	OSH	OSH	OSH
1705-2	RB 23' MAIN STEAM LINE C (mR/hr)	OSH	OSH	OSH
1705-2	RB 23' MAIN STEAM LINE D (mR/hr)	OSH	OSH	OSH
1705-3	TB 3' AIR EJECTOR OFF GAS (mR/hr)	300	300	300
1705-4	AB 23' A Loop RBCCW (CPS)	1500	1500	1500
1705-4	AB 23' B Loop RBCCW (CPS)	1500	1500	1500
1705-8	RB 117' REFUEL FLOOR VENT (mR/hr)	5	5	5
1705-9	TB 51' STANDBY GAS TREATMENT(mR/hr)	OSH	OSH	OSH
1705-16	TB 37' CONTROL ROOM AIR (mR/hr)	0.05	0.05	0.05
1705-30	RW 1' RADWASTE DISCHARGE (CPS)	4000	4000	4000
1705-5	AOG 23' OFF GAS POST TREATMENT(CPS)	2000	2000	2000
1001-606	DRYWELL CHARMS A (R/HR)	8	8	8
1001-606	DRYWELL CHARMS B (R/HR)	8	8	8
1001-607	TORUS CHARMS A (R/HR)	2	2	2
1001-607	TORUS CHARMS B (R/HR)	2	2	2

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 00:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters	☐	110	mR/hr	☐	10^{0} -10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand	☐	300	mR/hr	☐	10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 00:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters	☐	110	mR/hr	☐	10^{0} -10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand	☐	300	mR/hr	☐	10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 00:25

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters		110	mR/hr		10^{0} -10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand		300	mR/hr		10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 4

AREA RADIATION MONITORS

TIME: 00:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters	☐	110	mR/hr	☐	10^{0} -10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand	☐	300	mR/hr	☐	10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 00:40

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters	☐	100	mR/hr	☐	10^{0} -10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand	☐	290	mR/hr	☐	10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 00:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters		100	mR/hr		10^{0} -10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand		280	mR/hr		10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 01:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters	☐	98	mR/hr	☐	10^{0} -10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand	☐	250	mR/hr	☐	10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 01:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		92	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		230	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 01:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters	☐	86	mR/hr	☐	10^{0} -10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand	☐	210	mR/hr	☐	10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 10

AREA RADIATION MONITORS

TIME: 01:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		80	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		190	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 02:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		76	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		170	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 12

AREA RADIATION MONITORS

TIME: 02:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	72	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	150	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 02:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		67	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		140	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 02:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		63	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		130	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 03:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	59	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	120	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	2	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	6	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 03:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters		56	mR/hr		10^{0} -10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand		110	mR/hr		10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		6	mR/hr		10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 03:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} -10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} -10^{3}
C911/ARM -2	Feedwater Heaters		52	mR/hr		10^{0} -10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -4	Turbine-Front Stand		98	mR/hr		10^{0} -10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} -10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} -10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} -10^{4}
C911/ARM -8	Rx-Outside Tip Room		2	mR/hr		10^{-2} -10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} -10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		12	mR/hr		10^{-1} -10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} -10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} -10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} -10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} -10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 18

AREA RADIATION MONITORS

TIME: 03:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	49	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	88	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	3	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	15	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 04:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		47	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		80	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		5	mR/hr	X	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Acess Area (S.E.)		17	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 20

AREA RADIATION MONITORS

TIME: 04:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		44	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		76	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		9	mR/hr	X	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		20	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 04:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		42	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		67	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		11	mR/hr	X	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		20	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 04:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	100	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	10	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	39	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	61	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	12	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	60	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	6	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	15	mR/hr	☒	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	DS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	18	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	5	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	DS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	3	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	10	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 23

AREA RADIATION MONITORS

TIME: 05:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	OOS	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 24

AREA RADIATION MONITORS

TIME: 05:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	OOS	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 25

AREA RADIATION MONITORS

TIME: 05:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		OOS	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		OOS	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		OOS	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		OOS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		OOS	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		OOS	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		OOS	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		OOS	mR/hr		10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room		OOS	mR/hr		10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock		OOS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OOS	mR/hr		10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		OOS	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		OOS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		OOS	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		OOS	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 05:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	OOS	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 06:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	OOS	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 06:10

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-60	Charcoal Vault Area AOG	☐	OOS	mR/hr	☐	10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -3	Main Control Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank	☐	OOS	mR/hr	☐	10^{0} - 10^{4}
C911/ARM -8	Rx-Outside Tip Room	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -9	RadWaste Ship. Lock	☐	OOS	mR/hr	☐	10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area	☐	OOS	mR/hr	☐	10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 29

AREA RADIATION MONITORS

TIME: 06:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		27	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		35	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 30

AREA RADIATION MONITORS

TIME: 06:20

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		26	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		34	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 31

AREA RADIATION MONITORS

TIME: 06:25

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		25	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		33	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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 = 00 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 06:30

PANEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		25	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		32	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 06:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		24	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		29	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 34

AREA RADIATION MONITORS

TIME: 07:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		23	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		27	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 35

AREA RADIATION MONITORS

TIME: 07:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		21	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		24	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 36

AREA RADIATION MONITORS

TIME: 07:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		20	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		22	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 37

AREA RADIATION MONITORS

TIME: 07:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C9[illegible] ARM -2	Feedwater Heaters		20	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		21	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

AREA RADIATION MONITORS

TIME: 08:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		20	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		20	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

Msg No: 39

AREA RADIATION MONITORS

TIME: End

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-60	Charcoal Vault Area AOG		100	mR/hr		10^{-1} - 10^{4}
C911/ARM -1	Cond. Pump Stair		10	mR/hr		10^{-1} - 10^{3}
C911/ARM -2	Feedwater Heaters		20	mR/hr		10^{0} - 10^{4}
C911/ARM -3	Main Control Room		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -4	Turbine-Front Stand		20	mR/hr		10^{0} - 10^{4}
C911/ARM -5	Radwaste-Corridor		12	mR/hr		10^{-1} - 10^{3}
C911/ARM -6	Radwaste-Sump Area		60	mR/hr		10^{0} - 10^{4}
C911/ARM -7	Chem. Waste Tank		6	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 Ship. Lock		DS	mR/hr		10^{-2} - 10^{2}
C911/ARM -10	Rx Acess Area (S.E.)		OSH	mR/hr	X	10^{-1} - 10^{3}
C911/ARM -11	New Fuel Racks		5	mR/hr		10^{-1} - 10^{3}
C911/ARM -12	New Fuel Vault		DS	mR/hr		10^{-1} - 10^{3}
C911/ARM -13	Shield Plug Area		3	mR/hr		10^{-1} - 10^{3}
C911/ARM -14	Spent Fuel Pool Area		10	mR/hr		10^{-1} - 10^{3}

ALARM SET POINTS

1705-60 = 200 mR/hr
ARM -0 = 500 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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 00:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		100	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		35	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		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		1000	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		1300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Pcst Treatment		5000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 ISOLATED CFM — Main Stack 16000 CFM*

Rx Bldg FI8116A 105000 CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	48 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 2

PROCESS RADIATION MONITORS

TIME: 00:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		100	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		35	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		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		1000	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		1650	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		4700	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 ISOLATED CFM — Main Stack 16000 CFM*

Rx Bldg FI8116A 105000 CFM — TB Vent 140000 CFM*

MET DATA

Pannel MT1

		220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162 Deg.
Outside Temp	48 Deg. F	Speed	5	5	5 MPH
Stability Class	B *				
Precip	None *				

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 00:25

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		100	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		35	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		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		1000	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		2000	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		4600	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 ISOLATED CFM — Main Stack 16000 CFM*

Rx Bldg FI8116A 105000 CFM — TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	48 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 4

PROCESS RADIATION MONITORS

TIME: 00:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		100	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		35	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		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		1000	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		1000	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		2350	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		4500	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 ISOLATED CFM — Main Stack 16000 CFM*

Rx Bldg FI8116A 105000 CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	48 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 00:40

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		90	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		35	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		880	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		880	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		880	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		880	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		2300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		4400	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 8000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	18 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 00:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		90	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		35	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		720	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		720	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		720	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		720	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		2250	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		4300	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	48 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 01:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		75	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		35	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		610	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		610	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		610	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		610	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		1800	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		4100	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	160'	033'	
Delta Temp	-1.8	Deg. F				
Outside Temp	48	Deg. F				
Stability Class	B	*				
Precip	None	*				
Dir (from)			160	161	162	Deg.
Speed			5	5	5	MPH

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 01:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		63	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		35	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		510	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		510	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		510	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		510	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		1550	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		3800	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	49 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 9

PROCESS RADIATION MONITORS

TIME: 01:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		54	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		35	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		450	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		450	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		450	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		450	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		1250	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{5}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		3600	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	49 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 10

PROCESS RADIATION MONITORS

TIME: 01:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		47	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		35	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		380	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		380	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		380	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		380	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		925	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		3500	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

		220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162 Deg.
Outside Temp	49 Deg. F	Speed	5	5	5 MPH
Stability Class	B *				
Precip	None *				

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

THIS IS A DRILL

Msg No: 11

PROCESS RADIATION MONITORS

TIME: 02:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		40	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		35	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		330	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		330	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		330	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		330	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		750	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		3300	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	49 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 12

PROCESS RADIATION MONITORS

TIME: 02:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		35	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		35	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		280	mR/hr		10^{0} -10^{6}
	Main Steam Line B		280	mR/hr		10^{0} -10^{6}
	Main Steam Line C		280	mR/hr		10^{0} -10^{6}
	Main Steam Line D		280	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		625	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		3100	CPS		10^{-1} -10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} -10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	49 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 02:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		30	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		35	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		230	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		230	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		230	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		230	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		575	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		3000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	49 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 14

PROCESS RADIATION MONITORS

TIME: 02:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		27	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		35	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		210	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		210	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		210	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		210	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		525	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2800	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		DS	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 Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	50 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 15

PROCESS RADIATION MONITORS

TIME: 03:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		25	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		35	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	P/hr		10^{-1} -10^{4}
C910/1705-2	Main Steam Line A		200	mR/hr		10^{0} -10^{6}
	Main Steam Line B		200	mR/hr		10^{0} -10^{6}
	Main Steam Line C		200	mR/hr		10^{0} -10^{6}
	Main Steam Line D		200	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		475	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{5}
C910/1705-5	Off Gas Post Treatment		2700	CPS		10^{-1} -10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} -10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	50 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 16

PROCESS RADIATION MONITORS

TIME: 03:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		23	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		35	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		200	mR/hr		10^{0} -10^{6}
	Main Steam Line B		200	mR/hr		10^{0} -10^{6}
	Main Steam Line C		200	mR/hr		10^{0} -10^{6}
	Main Steam Line D		200	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		425	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2600	CPS		10^{-1} -10^{6}
C170/1001-606	Drywell CHRMS A		DS	R/hr		10^{-1} -10^{7}
	Drywell CHRMS B		DS	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

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	50 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 17

PROCESS RADIATION MONITORS

TIME: 03:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		60	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	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		1250	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		1400	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		1500	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		1700	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		375	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2400	CPS		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		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	50 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 18

PROCESS RADIATION MONITORS

TIME: 03:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		1300	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	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		470	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		530	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		560	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		640	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		325	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		7	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2300	CPS		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		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	50 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 19

PROCESS RADIATION MONITORS

TIME: 04:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo	☐	480	CPS	☐	10^{-1} - 10^{3}
C910/1001-608	Main Stack Hi	☐	DS	R/hr	☐	10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo	☐	40	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	☐	432	mR/hr	☐	10^{0} - 10^{6}
	Main Steam Line B	☐	487	mR/hr	☐	10^{0} - 10^{6}
	Main Steam Line C	☐	515	mR/hr	☐	10^{0} - 10^{6}
	Main Steam Line D	☐	588	mR/hr	☐	10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas	☐	300	mR/hr	☐	10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW	☐	1500	CPS	☐	10^{-1} - 10^{6}
	B Loop RBCCW	☐	1500	CPS	☐	10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent	☐	5	mR/hr	☐	10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust	☐	7	mR/hr	☐	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake	☐	.05	mR/hr	☐	10^{-2} - 10^{2}
C910/1705-30	R/W Discharge	☐	4000	CPS	☐	10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment	☐	2200	CPS	☐	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	☐	2	R/hr	☐	10^{-1} - 10^{7}
	Torus CHRMS B	☐	2	R/hr	☐	10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA

Pannel MT1

		220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162 Deg.
Outside Temp	50 Deg. F	Speed	5	5	5 MPH
Stability Class	B *				
Precip	None *				

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 04:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		220	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	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		397	mR/hr		10^{0} -10^{6}
	Main Steam Line B		448	mR/hr		10^{0} -10^{6}
	Main Steam Line C		473	mR/hr		10^{0} -10^{6}
	Main Steam Line D		541	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2100	CPS		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		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	50 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 21

PROCESS RADIATION MONITORS

TIME: 04:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		100	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	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		365	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		412	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		436	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		498	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

		220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162 Deg.
Outside Temp	50 Deg. F	Speed	5	5	5 MPH
Stability Class	B *				
Precip	None *				

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 04:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		80	CPS		10^{-1} -10^{6}
C910/1001-608	Main Stack Hi		DS	R/hr		10^{-1} -10^{4}
C910/1705-22	Rx Bldg Vent Lo		40	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		336	mR/hr		10^{0} -10^{6}
	Main Steam Line B		379	mR/hr		10^{0} -10^{6}
	Main Steam Line C		401	mR/hr		10^{0} -10^{6}
	Main Steam Line D		458	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	51 Deg. F	Speed	5	5	5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 05:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		70	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	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		309	mR/hr		10^{0} -10^{6}
	Main Steam Line B		349	mR/hr		10^{0} -10^{6}
	Main Steam Line C		369	mR/hr		10^{0} -10^{6}
	Main Steam Line D		421	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	51 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 05:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		70	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	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		284	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		321	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		339	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		388	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 OOS CFM — Main Stack OOS CFM*

Rx Bldg FI8116A OOS CFM — TB Vent OOS CFM*

MET DATA Pannel MT1

		220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	OOS	161	OOS Deg.
Outside Temp	51 Deg. F	Speed	OOS	5	OOS MPH
Stability Class	B *				
Precip	None *				

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

THIS IS A DRILL

Msg No: 25

PROCESS RADIATION MONITORS

TIME: 05:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		70	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	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		262	mR/hr		10^{0} -10^{6}
	Main Steam Line B		295	mR/hr		10^{0} -10^{6}
	Main Steam Line C		312	mR/hr		10^{0} -10^{6}
	Main Steam Line D		357	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 OOS CFM

Rx Bldg FI8116A OOS CFM

Main Stack OOS CFM*

TB Vent OOS CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	OOS	161	OOS	Deg.
Outside Temp	51 Deg. F	Speed	OOS	5	OOS	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 05:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		70	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	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		241	mR/hr		10^{0} -10^{6}
	Main Steam Line B		272	mR/hr		10^{0} -10^{6}
	Main Steam Line C		287	mR/hr		10^{0} -10^{6}
	Main Steam Line D		328	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Panel C7

SBGT FI8126/7 OOS CFM — Main Stack OOS CFM*

Rx Bldg FI8116A OOS CFM — TB Vent OOS CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	OOS	161	OOS	Deg.
Outside Temp	51 Deg. F	Speed	OOS	5	OOS	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 06:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		70	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	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		221	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		250	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		264	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		302	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		6	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		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		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 OOS CFM

Rx Bldg FI8116A OOS CFM

Main Stack OOS CFM*

TB Vent OOS CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	OOS	161	OOS	Deg.
Outside Temp	51 Deg. F	Speed	OOS	5	OOS	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 06:10

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		1900	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	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		620	mR/hr		10^{0} -10^{6}
	Main Steam Line B		690	mR/hr		10^{0} -10^{6}
	Main Steam Line C		870	mR/hr		10^{0} -10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		10	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} -10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} -10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} -10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	51 Deg. F	Speed	5	5	5	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 06:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} -10^{6}
C910/1001-608	Main Stack Hi		4	R/hr		10^{-1} -10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} -10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} -10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} -10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} -10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} -10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} -10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	51 Deg. F	Speed	5.5	5.5	5.5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 30

PROCESS RADIATION MONITORS

TIME: 06:20

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} -10^{6}
C910/1001-608	Main Stack HI		359	R/hr		10^{-1} -10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} -10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} -10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} -10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} -10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} -10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} -10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} -10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} -10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} -10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} -10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} -10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} -10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} -10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} -10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} -10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} -10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	51 Deg. F	Speed	5.5	5.5	5.5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 06:25

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack HI		460	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	6	6	6	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 32

PROCESS RADIATION MONITORS

TIME: 06:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		378	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	6	6	6	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 06:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack HI		330	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	6	6	6	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

PROCESS RADIATION MONITORS

TIME: 07:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm In	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		100	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	6.5	6.5	6.5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 35

PROCESS RADIATION MONITORS

TIME: 07:15

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		30	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	7	7	7	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 36

PROCESS RADIATION MONITORS

TIME: 07:30

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		8	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT	FI8126/7	4000 CFM	Main Stack	20000	CFM*
Rx Bldg	FI8116A	ISOLATED CFM	TB Vent	140000	CFM*

MET DATA

Pannel MT1

			220'	160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	7.5	7.5	7.5	MPH
Stability Class	B *					
Precip	None *					

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

THIS IS A DRILL

Msg No: 37

PROCESS RADIATION MONITORS

TIME: 07:45

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		OSH	CPS		10^{-1} - 10^{6}
C910/1001-608	Main Stack Hi		3	R/hr		10^{-1} - 10^{4}
C910/1705-32	Rx Bldg Vent Lo		40	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}
C91 1705-2	Main Steam Line A		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA Pannel MT1

				220'	160'	033'	
Delta Temp	-1.8	Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52	Deg. F	Speed	7.5	7.5	7.5	MPH
Stability Class	B	*					
Precip	None	*					

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

THIS IS A DRILL

Msg No: 38

PROCESS RADIATION MONITORS

TIME: 08:00

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo	☐	300000	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	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	☐	OSH	mR/hr	☐	10^{0} - 10^{6}
	Main Steam Line B	☐	OSH	mR/hr	☐	10^{0} - 10^{6}
	Main Steam Line C	☐	OSH	mR/hr	☐	10^{0} - 10^{6}
	Main Steam Line D	☐	OSH	mR/hr	☐	10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas	☐	300	mR/hr	☐	10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW	☐	1500	CPS	☐	10^{-1} - 10^{6}
	B Loop RBCCW	☐	1500	CPS	☐	10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent	☐	5	mR/hr	☐	10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust	☐	OSH	mR/hr	☐	10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake	☐	.05	mR/hr	☐	10^{-2} - 10^{2}
C910/1705-30	R/W Discharge	☐	4000	CPS	☐	10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment	☐	2000	CPS	☐	10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A	☐	8	R/hr	☐	10^{-1} - 10^{7}
	Drywell CHRMS B	☐	8	R/hr	☐	10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A	☐	2	R/hr	☐	10^{-1} - 10^{7}
	Torus CHRMS B	☐	2	R/hr	☐	10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 4000 CFM — Main Stack 20000 CFM*

Rx Bldg FI8116A ISOLATED CFM — TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	8	8	8	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Msg No: 39

PROCESS RADIATION MONITORS

TIME: End

PANNEL/ID NO.	MONITOR	Trend	READING		Alarm in	RANGE
C910/1705-18	Main Stack Lo		1000	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	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		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line B		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line C		OSH	mR/hr		10^{0} - 10^{6}
	Main Steam Line D		OSH	mR/hr		10^{0} - 10^{6}
C910/1705-3	Air Ejector Off Gas		300	mR/hr		10^{0} - 10^{6}
C910/1705-4	A Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
	B Loop RBCCW		1500	CPS		10^{-1} - 10^{6}
C910/1705-8	Refuel Floor Vent		5	mR/hr		10^{-1} - 10^{3}
C910/1705-9	SBGT Exhaust		OSH	mR/hr		10^{0} - 10^{4}
C910/1705-16	Control Rm Air Intake		.05	mR/hr		10^{-2} - 10^{2}
C910/1705-30	R/W Discharge		4000	CPS		10^{-1} - 10^{6}
C910/1705-5	Off Gas Post Treatment		2000	CPS		10^{-1} - 10^{6}
C170/1001-606	Drywell CHRMS A		8	R/hr		10^{-1} - 10^{7}
	Drywell CHRMS B		8	R/hr		10^{-1} - 10^{7}
C170/1001-607	Torus CHRMS A		2	R/hr		10^{-1} - 10^{7}
	Torus CHRMS B		2	R/hr		10^{-1} - 10^{7}

FLOW RATES

Pannel C7

SBGT FI8126/7 4000 CFM

Rx Bldg FI8116A ISOLATED CFM

Main Stack 20000 CFM*

TB Vent 140000 CFM*

MET DATA

Pannel MT1

			220'	*160'	033'	
Delta Temp	-1.8 Deg. F	Dir (from)	160	161	162	Deg.
Outside Temp	52 Deg. F	Speed	8	8	8	MPH

Stability Class B *

Precip None *

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

THIS IS A DRILL

Section 8.3
Count Room Data

Table 8.3-1

Reactor Coolant Chemistry (μCi/cc)

Isotope	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50	8:00
Kr-85m	9.50E+03	9.33E+03	1.17E+03	1.13E+03	1.10E+03	1.07E+03	1.04E+03	1.02E+03	9.89E+02	9.64E+02	9.39E+02	9.15E+02	8.92E+02
Kr-85	9.81E+02	9.81E+02	1.26E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02	1.25E+02
Kr-87	1.99E+03	1.82E+03	2.14E+02	1.94E+02	1.77E+02	1.61E+02	1.47E+02	1.34E+02	1.23E+02	1.12E+02	1.02E+02	9.34E+01	8.53E+01
Kr-88	1.61E+04	1.55E+04	1.91E+03	1.82E+03	1.74E+03	1.67E+03	1.60E+03	1.54E+03	1.48E+03	1.42E+03	1.36E+03	1.31E+03	1.25E+03
Xe-133	1.75E+05	1.75E+05	2.24E+04	2.23E+04	2.22E+04	2.22E+04	2.21E+04	2.21E+04	2.20E+04	2.20E+04	2.20E+04	2.20E+04	2.20E+04
Xe-135	1.55E+04	1.53E+04	1.94E+03	1.90E+03	1.88E+03	1.85E+03	1.82E+03	1.80E+03	1.78E+03	1.75E+03	1.73E+03	1.71E+03	1.69E+03
	2.19E+05	**2.18E+05**	**2.78E+04**	**2.75E+04**	**2.72E+04**	**2.70E+04**	**2.69E+04**	**2.67E+04**	**2.65E+04**	**2.64E+04**	**2.63E+04**	**2.61E+04**	**2.60E+04**
I-131	8.52E+04	8.51E+04	1.09E+04	1.09E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.08E+04	1.07E+04	1.07E+04	1.07E+04
I-132	2.51E+04	2.39E+04	2.92E+03	2.76E+03	2.62E+03	2.49E+03	2.37E+03	2.25E+03	2.14E+03	2.03E+03	1.93E+03	1.84E+03	1.75E+03
I-133	1.52E+05	1.51E+05	1.93E+04	1.91E+04	1.89E+04	1.88E+04	1.87E+04	1.86E+04	1.85E+04	1.84E+04	1.83E+04	1.82E+04	1.81E+04
I-134	2.86E+03	2.52E+03	2.84E+02	2.48E+02	2.17E+02	1.90E+02	1.66E+02	1.45E+02	1.27E+02	1.12E+02	9.79E+01	8.58E+01	7.52E+01
I-135	9.73E+04	9.57E+04	1.21E+04	1.18E+04	1.16E+04	1.14E+04	1.11E+04	1.09E+04	1.08E+04	1.06E+04	1.04E+04	1.02E+04	1.00E+04
	3.62E+05	**3.58E+05**	**4.55E+04**	**4.48E+04**	**4.42E+04**	**4.37E+04**	**4.32E+04**	**4.27E+04**	**4.23E+04**	**4.18E+04**	**4.14E+04**	**4.10E+04**	**4.06E+04**
Cs-134	1.52E+04	1.52E+04	1.95E+03	1.95E+03	1.94E+03	1.94E+03	1.94E+03	1.93E+03	1.93E+03	1.93E+03	1.93E+03	1.93E+03	1.93E+03
Cs-137	9.40E+03	9.40E+03	1.21E+03	1.20E+03	1.20E+03	1.20E+03	1.19E+03	1.19E+03	1.19E+03	1.19E+03	1.19E+03	1.19E+03	1.19E+03
Cs-138	1.35E+02	1.10E+02	1.13E+01	9.10E+00	7.32E+00	5.89E+00	4.75E+00	3.83E+00	3.08E+00	2.49E+00	2.00E+00	1.62E+00	1.30E+00
	2.48E+04	**2.47E+04**	**3.17E+03**	**3.16E+03**	**3.14E+03**	**3.14E+03**	**3.13E+03**	**3.13E+03**	**3.13E+03**	**3.13E+03**	**3.13E+03**	**3.13E+03**	**3.13E+03**
Te-132	2.02E+04	2.01E+04	2.58E+03	2.57E+03	2.56E+03	2.55E+03	2.54E+03	2.54E+03	2.53E+03	2.53E+03	2.52E+03	2.52E+03	2.52E+03
Mo-99	5.30E+03	5.29E+03	6.78E+02	6.74E+02	6.71E+02	6.69E+02	6.67E+02	6.65E+02	6.64E+02	6.63E+02	6.61E+02	6.60E+02	6.59E+02
Ru-103	4.73E+03	4.73E+03	6.07E+02	6.05E+02	6.03E+02	6.02E+02	6.01E+02	6.01E+02	6.00E+02	6.00E+02	6.00E+02	6.00E+02	6.00E+02
	1.00E+04	**1.00E+04**	**1.29E+03**	**1.28E+03**	**1.27E+03**	**1.27E+03**	**1.27E+03**	**1.27E+03**	**1.26E+03**	**1.26E+03**	**1.26E+03**	**1.26E+03**	**1.26E+03**
Sr-91	7.94E+03	7.85E+03	9.95E+02	9.79E+02	9.65E+02	9.51E+02	9.39E+02	9.27E+02	9.16E+02	9.04E+02	8.93E+02	8.82E+02	8.72E+02
Sr-92	3.18E+03	3.06E+03	3.76E+02	3.59E+02	3.43E+02	3.28E+02	3.14E+02	3.01E+02	2.88E+02	2.76E+02	2.64E+02	2.53E+02	2.43E+02
Ba-140	1.75E+04	1.75E+04	2.24E+03	2.23E+03	2.22E+03	2.22E+03	2.22E+03	2.21E+03	2.21E+03	2.21E+03	2.21E+03	2.21E+03	2.21E+03
	2.86E+04	**2.84E+04**	**3.61E+03**	**3.57E+03**	**3.53E+03**	**3.50E+03**	**3.47E+03**	**3.44E+03**	**3.42E+03**	**3.39E+03**	**3.37E+03**	**3.34E+03**	**3.32E+03**
Y-92	1.33E+02	1.29E+02	1.60E+01	1.54E+01	1.49E+01	1.44E+01	1.39E+01	1.34E+01	1.30E+01	1.26E+01	1.22E+01	1.18E+01	1.14E+01
La-140	5.14E+02	5.13E+02	6.56E+01	6.52E+01	6.48E+01	6.45E+01	6.43E+01	6.40E+01	6.38E+01	6.36E+01	6.34E+01	6.33E+01	6.31E+01
Ce-141	4.91E+02	4.91E+02	6.30E+01	6.27E+01	6.26E+01	6.25E+01	6.24E+01	6.23E+01	6.23E+01	6.23E+01	6.23E+01	6.23E+01	6.22E+01
Ce-144	3.95E+02	3.95E+02	5.07E+01	5.05E+01	5.04E+01	5.03E+01	5.02E+01	5.02E+01	5.02E+01	5.02E+01	5.02E+01	5.02E+01	5.02E+01
	1.53E+03	**1.53E+03**	**1.95E+02**	**1.94E+02**	**1.93E+02**	**1.92E+02**	**1.91E+02**	**1.90E+02**	**1.89E+02**	**1.89E+02**	**1.88E+02**	**1.87E+02**	**1.87E+02**
Zr-95	4.92E+02	4.92E+02	6.32E+01	6.29E+01	6.27E+01	6.26E+01	6.26E+01	6.25E+01	6.25E+01	6.25E+01	6.25E+01	6.25E+01	6.24E+01
Zr-97	4.08E+02	4.06E+02	5.17E+01	5.11E+01	5.06E+01	5.02E+01	4.98E+01	4.95E+01	4.91E+01	4.88E+01	4.84E+01	4.81E+01	4.78E+01
	9.01E+02	8.98E+02	1.15E+02	1.14E+02	1.13E+02	1.13E+02	1.12E+02	1.12E+02	1.12E+02	1.11E+02	1.11E+02	1.11E+02	1.10E+02

Table 8.3-2.1

PASS RADIATION READINGS (mR/hr)

06:10 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.24E+06
		1 foot	None	8.61E+03
		1 inch	2 inch Pb	1.24E+05
		1 foot	2 inch Pb	8.61E+02
		1 inch	4 inch Pb	1.24E+04
		1 foot	4 inch Pb	8.61E+01
Gas From Rx Coolant	14.0	1 inch	None	1.74E+06
		1 foot	None	1.20E+04
		1 inch	2 inch Pb	1.74E+05
		1 foot	2 inch Pb	1.20E+03
		1 inch	4 inch Pb	1.74E+04
		1 foot	4 inch Pb	1.20E+02

06:20 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.58E+05
		1 foot	None	1.10E+03
		1 inch	2 inch Pb	1.58E+04
		1 foot	2 inch Pb	1.10E+02
		1 inch	4 inch Pb	1.58E+03
		1 foot	4 inch Pb	1.10E+01
Gas From Rx Coolant	14.0	1 inch	None	2.21E+05
		1 foot	None	1.54E+03
		1 inch	2 inch Pb	2.21E+04
		1 foot	2 inch Pb	1.54E+02
		1 inch	4 inch Pb	2.21E+03
		1 foot	4 inch Pb	1.54E+01

06:30 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.56E+05
		1 foot	None	1.09E+03
		1 inch	2 inch Pb	1.56E+04
		1 foot	2 inch Pb	1.09E+02
		1 inch	4 inch Pb	1.56E+03
		1 foot	4 inch Pb	1.09E+01
Gas From Rx Coolant	14.0	1 inch	None	2.19E+05
		1 foot	None	1.52E+03
		1 inch	2 inch Pb	2.19E+04
		1 foot	2 inch Pb	1.52E+02
		1 inch	4 inch Pb	2.19E+03
		1 foot	4 inch Pb	1.52E+01

NOTES: Assume All readings < 0.01 mR/hr as Background.
Readings are based upon DR = 5.64 x C x E; T.R. from Radiological Health Handbook, where:
C = # of Curies
E = Average Energy (Mev)
0.7 for Noble Gas, 0.5 for Iodine

Table 8.3-2.2

PASS RADIATION READINGS (mR/hr)

06:40 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.55E+05
		1 foot	None	1.07E+03
		1 inch	2 inch Pb	1.55E+04
		1 foot	2 inch Pb	1.07E+02
		1 inch	4 inch Pb	1.55E+03
		1 foot	4 inch Pb	1.07E+01
Gas From Rx Coolant	14.0	1 inch	None	2.16E+05
		1 foot	None	1.50E+03
		1 inch	2 inch Pb	2.16E+04
		1 foot	2 inch Pb	1.50E+02
		1 inch	4 inch Pb	2.16E+03
		1 foot	4 inch Pb	1.50E+01

06:50 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.53E+05
		1 foot	None	1.07E+03
		1 inch	2 inch Pb	1.53E+04
		1 foot	2 inch Pb	1.07E+02
		1 inch	4 inch Pb	1.53E+03
		1 foot	4 inch Pb	1.07E+01
Gas From Rx Coolant	14.0	1 inch	None	2.15E+05
		1 foot	None	1.49E+03
		1 inch	2 inch Pb	2.15E+04
		1 foot	2 inch Pb	1.49E+02
		1 inch	4 inch Pb	2.15E+03
		1 foot	4 inch Pb	1.49E+01

07:00 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.53E+05
		1 foot	None	1.06E+03
		1 inch	2 inch Pb	1.53E+04
		1 foot	2 inch Pb	1.06E+02
		1 inch	4 inch Pb	1.53E+03
		1 foot	4 inch Pb	1.06E+01
Gas From Rx Coolant	14.0	1 inch	None	2.14E+05
		1 foot	None	1.49E+03
		1 inch	2 inch Pb	2.14E+04
		1 foot	2 inch Pb	1.49E+02
		1 inch	4 inch Pb	2.14E+03
		1 foot	4 inch Pb	1.49E+01

NOTES: Assume All readings < 0.01 mR/hr as Background.
Readings are based upon DR = 5.84 x C x E: T.R. from Radiological Health Handbook, where:
C = # of Curies
E = Average Energy (Mev)
0.7 for Noble Gas, 0.5 for Iodine

Table 8.3-2.3

PASS RADIATION READINGS (mR/hr)

07:10 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.52E+05
		1 foot	None	1.05E+03
		1 inch	2 inch Pb	1.52E+04
		1 foot	2 inch Pb	1.05E+02
		1 inch	4 inch Pb	1.52E+03
		1 foot	4 inch Pb	1.05E+01
Gas From Rx Coolant	14.0	1 inch	None	2.13E+05
		1 foot	None	1.48E+03
		1 inch	2 inch Pb	2.13E+04
		1 foot	2 inch Pb	1.48E+02
		1 inch	4 inch Pb	2.13E+03
		1 foot	4 inch Pb	1.48E+01

07:20 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.51E+05
		1 foot	None	1.05E+03
		1 inch	2 inch Pb	1.51E+04
		1 foot	2 inch Pb	1.05E+02
		1 inch	4 inch Pb	1.51E+03
		1 foot	4 inch Pb	1.05E+01
Gas From Rx Coolant	14.0	1 inch	None	2.11E+05
		1 foot	None	1.46E+03
		1 inch	2 inch Pb	2.11E+04
		1 foot	2 inch Pb	1.46E+02
		1 inch	4 inch Pb	2.11E+03
		1 foot	4 inch Pb	1.46E+01

07:30 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.50E+05
		1 foot	None	1.04E+03
		1 inch	2 inch Pb	1.50E+04
		1 foot	2 inch Pb	1.04E+02
		1 inch	4 inch Pb	1.50E+03
		1 foot	4 inch Pb	1.04E+01
Gas From Rx Coolant	14.0	1 inch	None	2.10E+05
		1 foot	None	1.46E+03
		1 inch	2 inch Pb	2.10E+04
		1 foot	2 inch Pb	1.46E+02
		1 inch	4 inch Pb	2.10E+03
		1 foot	4 inch Pb	1.46E+01

NOTES: Assume All readings < 0.01 mR/hr as Background.
Readings are based upon DR = 5.64 x C x E; T.R. from Radiological Health Handbook, where:
C = # of Curies
E = Average Energy (Mev)
0.7 for Noble Gas, 0.5 for Iodine

Table n.3-2.4

PASS RADIATION READINGS (mR/hr)

07:40 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.50E+05
		1 foot	None	1.04E+03
		1 inch	2 inch Pb	1.50E+04
		1 foot	2 inch Pb	1.04E+02
		1 inch	4 inch Pb	1.50E+03
		1 foot	4 inch Pb	1.04E+01
Gas From Rx Coolant	14.0	1 inch	None	2.09E+05
		1 foot	None	1.45E+03
		1 inch	2 inch Pb	2.09E+04
		1 foot	2 inch Pb	1.45E+02
		1 inch	4 inch Pb	2.09E+03
		1 foot	4 inch Pb	1.45E+01

07:50 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.48E+05
		1 foot	None	1.03E+03
		1 inch	2 inch Pb	1.48E+04
		1 foot	2 inch Pb	1.03E+02
		1 inch	4 inch Pb	1.48E+03
		1 foot	4 inch Pb	1.03E+01
Gas From Rx Coolant	14.0	1 inch	None	2.08E+05
		1 foot	None	1.44E+03
		1 inch	2 inch Pb	2.08E+04
		1 foot	2 inch Pb	1.44E+02
		1 inch	4 inch Pb	2.08E+03
		1 foot	4 inch Pb	1.44E+01

08:00 SAMPLE	VOLUME(ml)	DISTANCE	SHIELDING	READING
Rx Coolant	10.0	1 inch	None	1.48E+05
		1 foot	None	1.03E+03
		1 inch	2 inch Pb	1.48E+04
		1 foot	2 inch Pb	1.03E+02
		1 inch	4 inch Pb	1.48E+03
		1 foot	4 inch Pb	1.03E+01
Gas From Rx Coolant	14.0	1 inch	None	2.07E+05
		1 foot	None	1.44E+03
		1 inch	2 inch Pb	2.07E+04
		1 foot	2 inch Pb	1.44E+02
		1 inch	4 inch Pb	2.07E+03
		1 foot	4 inch Pb	1.44E+01

NOTES: Assume All readings < 0.01 mR/hr as Background.
Readings are based upon DR = 5.84 x C x E; T.R. from Radiological Health Handbook, where:
C = # of Curies
E = Average Energy (Mev)
0.7 for Noble Gas, 0.5 for Iodine

Table 8.3-3

Stack Chemistry (μCi/cc)

Isotope	6:10	6:20	6:30	7:00	7:30	8:00
Kr-85m	2.26E-06	5.71E-01	6.03E-01	1.60E-01	1.29E-02	2.95E-04
Kr-85	2.38E-07	6.16E-02	6.69E-02	1.92E-02	1.67E-03	4.12E-05
Kr-87	4.43E-07	1.04E-01	1.03E-01	2.26E-02	1.49E-03	2.81E-05
Kr-88	3.75E-06	9.31E-01	9.69E-01	2.46E-01	1.89E-02	4.14E-04
Xe-133	4.24E-05	1.10E+01	1.19E+01	3.40E+00	2.95E-01	7.26E-03
Xe-135	3.71E-06	9.48E-01	1.01E+00	2.81E-01	2.35E-02	5.58E-04
I-131	3.45E-08	8.86E-03	9.55E-03	2.72E-03	2.32E-04	5.74E-06
I-132	9.69E-09	2.37E-03	2.43E-03	5.94E-04	4.38E-05	9.33E-07
I-133	6.12E-08	1.57E-02	1.68E-02	4.70E-03	3.96E-04	9.65E-06
I-134	1.02E-09	2.30E-04	2.17E-04	4.16E-05	2.40E-06	4.00E-08
I-135	3.88E-08	9.79E-03	1.04E-02	2.80E-03	2.28E-04	5.36E-06
Cs-134	3.70E-09	9.56E-04	1.04E-03	2.98E-04	2.59E-05	6.40E-07
Cs-137	2.28E-09	5.90E-04	6.40E-04	1.84E-04	1.60E-05	3.95E-07
Cs-138	2.66E-11	5.52E-06	4.81E-06	7.24E-07	3.30E-08	4.28E-10
Te-132	4.89E-09	1.26E-03	1.37E-03	3.92E-04	3.39E-05	8.32E-07
Mo-99	1.29E-09	3.32E-04	3.59E-04	1.03E-04	8.87E-06	2.18E-07
Ru-103	1.15E-09	2.97E-04	3.22E-04	9.29E-05	8.03E-06	1.99E-07
Sr-91	1.91E-09	4.87E-04	5.23E-04	1.44E-04	1.21E-05	2.88E-07
Sr-92	7.42E-10	1.84E-04	1.91E-04	4.82E-05	3.69E-06	8.02E-08
Ba-140	4.24E-09	1.10E-03	1.19E-03	3.41E-04	2.96E-05	7.30E-07
Y-92	3.13E-11	7.82E-06	8.21E-06	2.13E-06	1.68E-07	3.77E-09
La-140	1.24E-10	3.21E-05	3.47E-05	9.87E-06	8.52E-07	2.09E-08
Ce-141	1.19E-10	3.08E-05	3.34E-05	9.59E-06	8.34E-07	2.06E-08
Ce-144	9.59E-11	2.48E-05	2.69E-05	7.72E-06	6.72E-07	1.66E-08
Zr-95	1.19E-10	3.09E-05	3.35E-05	9.63E-06	8.36E-07	2.06E-08
Zr-97	9.81E-11	2.53E-05	2.72E-05	7.67E-06	6.52E-07	1.58E-08
Ventillation Flow (CFM)						
Main Stack	2.00E+04	2.00E+04	2.00E+04	2.00E+04	2.00E+04	2.00E+04
SBGT	4.00E+03	4.00E+03	4.00E+03	4.00E+03	4.00E+03	4.00E+03
Release Rates (μCi/sec)						
Noble Gases	2.99E+04	7.69E+09	8.29E+09	2.34E+09	2.00E+08	4.87E+06
Halogens	8.22E+01	2.09E+07	2.23E+07	6.15E+06	5.11E+05	1.23E+04
Alkali Metals	3.40E+00	8.79E+05	9.53E+05	2.73E+05	2.37E+04	5.86E+02
Tellurium	2.77E+00	7.15E+05	7.75E+05	2.22E+05	1.92E+04	4.71E+02
Noble Metals	1.38E+00	3.56E+05	3.86E+05	1.11E+05	9.57E+03	2.36E+02
Alkaline Earths	3.90E+00	1.00E+06	1.08E+06	3.02E+05	2.57E+04	6.22E+02
Rare Earths	2.10E-01	5.41E+04	5.85E+04	1.66E+04	1.43E+03	3.50E+01
Refractories	1.23E-01	3.18E+04	3.44E+04	9.80E+03	8.43E+02	2.06E+01

Table 8.3-4.1

STACK RADIATION READINGS (mR/hr)
IODINE CARTRIDGE SAMPLES

SAMPLE TIME: 06:10

SAMPLE	FLOW(scfm)	DISTANCE	SHIELDING	READING
Main Stack Atmosphere	0.30	1 inch	None	2.84D+06
		1 foot	None	1.97D+04
		1 inch	2inch Pb	2.84D+05
		1 foot	2 inch Pb	1.97D+03
		1 inch	4 inch Pb	2.84D+04
		1 foot	4 inch Pb	1.97D+02

SAMPLE TIME: 06:20

SAMPLE	FLOW(scfm)	DISTANCE	SHIELDING	READING
Main Stack Atmosphere	0.30	1 inch	None	7.21D+11
		1 foot	None	5.01D+09
		1 inch	2inch Pb	7.21D+10
		1 foot	2 inch Pb	5.01D+08
		1 inch	4 inch Pb	7.21D+09
		1 foot	4 inch Pb	5.01D+07

SAMPLE TIME: 06:30

SAMPLE	FLOW(scfm)	DISTANCE	SHIELDING	READING
Main Stack Atmosphere	0.30	1 inch	None	7.69D+11
		1 foot	None	5.34D+09
		1 inch	2inch Pb	7.69D+10
		1 foot	2 inch Pb	5.34D+08
		1 inch	4 inch Pb	7.69D+09
		1 foot	4 inch Pb	5.34D+07

NOTES: Assume All readings < 0.01 mR/hr as Background.
Readings are based upon DR= 5.64*C*E: T.R. from Radiological Health Handbook, where:
C = # of Curies
E = Average Energy (Mev)
0.7 for Noble Gas, 0.5 for Iodine

Table 8.3-4.2

STACK RADIATION READINGS (mR/hr)
IODINE CARTRIDGE SAMPLES

SAMPLE TIME: 07:00

SAMPLE	FLOW(scfm)	DISTANCE	SHIELDING	READING
Main Stack	0.30	1 inch	None	2.12D+11
Atmosphere		1 foot	None	1.47D+09
		1 inch	2inch Pb	2.12D+10
		1 foot	2 inch Pb	1.47D+08
		1 inch	4 inch Pb	2.12D+09
		1 foot	4 inch Pb	1.47D+07

SAMPLE TIME: 07:30

SAMPLE	FLOW(scfm)	DISTANCE	SHIELDING	READING
Main Stack	0.30	1 inch	None	1.76D+10
Atmosphere		1 foot	None	1.22D+08
		1 inch	2inch Pb	1.76D+09
		1 foot	2 inch Pb	1.22D+07
		1 inch	4 inch Pb	1.76D+08
		1 foot	4 inch Pb	1.22D+06

SAMPLE TIME: 08:00

SAMPLE	FLOW(scfm)	DISTANCE	SHIELDING	READING
Main Stack	0.30	1 inch	None	4.24D+08
Atmosphere		1 foot	None	2.95D+06
		1 inch	2inch Pb	4.24D+07
		1 foot	2 inch Pb	2.95D+05
		1 inch	4 inch Pb	4.24D+06
		1 foot	4 inch Pb	2.95D+04

NOTES: Assume All readings < 0.01 mR/hr as Background.
Readings are based upon DR= 5.64*C*E: T.R. from Radiological Health Handbook, where:
C = # of Curies
E = Average Energy (Mev)
0.7 for Noble Gas, 0.5 for Iodine

Section 8.4
In-Plant Radiation Data

Table 6.5-5.1

Reactor Building Air Activity (μCi/cc)

Isotope	23' Elevation Area A							Scenario Time										
	03:30	03:45	04:00	04:15	04:30	04:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00
Kr-85m	1.7E-5	7.8E-6	4.1E-6	2.3E-6	1.5E-6	8.8E-7	6.0E-7	9.8E-7	1.2E-6	1.4E-6	9.5E-5	2.7E+1	3.7E+1	3.2E+1	9.8E+0	3.0E+0	7.9E-1	2.9E-1	1.8E-2
Kr-85	1.2E-6	5.6E-7	3.1E-7	1.8E-7	1.2E-7	7.4E-8	5.2E-8	9.0E-8	1.2E-7	1.4E-7	9.8E-6	2.9E+0	4.1E+0	3.7E+0	1.2E+0	3.7E-1	1.0E-1	4.0E-2	2.5E-3
Kr-87	9.4E-6	3.9E-6	1.9E-6	9.6E-7	5.5E-7	3.0E-7	1.8E-7	2.7E-7	3.1E-7	3.2E-7	2.0E-5	5.1E+0	6.3E+0	5.0E+0	1.4E+0	3.8E-1	9.1E-2	3.1E-2	1.7E-3
Kr-88	3.6E-5	1.6E-5	8.3E-6	4.6E-6	2.8E-6	1.7E-6	1.1E-6	1.8E-6	2.2E-6	2.4E-6	1.6E-4	4.5E+1	5.9E+1	5.1E+1	1.5E+1	4.4E+0	1.2E+0	4.2E-1	2.5E-2
Xe-133	2.1E-4	1.0E-4	5.6E-5	3.3E-5	2.2E-5	1.3E-5	9.4E-6	1.6E-5	2.1E-5	2.5E-5	1.7E-3	5.1E+2	7.3E+2	6.6E+2	2.1E+2	6.5E+1	1.8E+1	7.0E+0	4.4E-1
Xe-135	2.3E-5	1.1E-5	5.7E-6	3.3E-6	2.1E-6	1.3E-6	8.9E-7	1.5E-6	1.9E-6	2.2E-6	1.5E-4	4.5E+1	6.2E+1	5.5E+1	1.7E+1	5.3E+0	1.4E+0	5.5E-1	3.4E-2
TOTAL	3.0E-4	1.4E-4	7.7E-5	4.4E-5	2.9E-5	1.8E-5	1.2E-5	2.1E-5	2.7E-5	3.1E-5	2.2E-3	6.4E+2	9.0E+2	8.1E+2	2.5E+2	7.9E+1	2.2E+1	8.3E+0	5.3E-1
I-131	2.3E-5	1.1E-5	6.3E-6	3.4E-6	2.5E-6	1.5E-6	1.1E-6	7.7E-7	5.7E-7	4.3E-7	1.4E-4	4.1E+1	5.8E+1	5.3E+1	1.7E+1	5.2E+0	1.4E+0	5.5E-1	3.5E-2
I-132	1.4E-5	6.5E-6	3.4E-6	1.7E-6	1.1E-6	6.6E-7	4.4E-7	2.8E-7	2.0E-7	1.4E-7	4.1E-5	1.1E+1	1.5E+1	1.2E+1	3.6E+0	1.0E+0	2.7E-1	9.6E-2	5.7E-3
I-133	4.5E-5	2.1E-5	1.2E-5	6.4E-6	4.6E-6	2.8E-6	2.0E-6	1.4E-6	1.0E-6	7.7E-7	2.5E-4	7.3E+1	1.0E+2	9.3E+1	2.9E+1	8.9E+0	2.4E+0	9.3E-1	5.9E-2
I-134	5.6E-6	2.2E-6	1.0E-6	4.5E-7	2.7E-7	1.4E-7	8.1E-8	4.7E-8	2.9E-8	1.8E-8	4.7E-6	1.1E+0	1.3E+0	9.9E-1	2.5E-1	6.5E-2	1.5E-2	4.7E-3	2.4E-4
I-135	3.4E-5	1.6E-5	8.8E-6	4.7E-6	3.3E-6	2.0E-6	1.4E-6	9.5E-7	6.9E-7	5.0E-7	1.6E-4	4.6E+1	6.4E+1	5.6E+1	1.7E+1	5.2E+0	1.4E+0	5.3E-1	3.3E-2
TOTAL	1.2E-4	5.7E-5	3.1E-5	1.7E-5	1.2E-5	7.2E-6	5.0E-6	3.5E-6	2.5E-6	1.9E-6	5.9E-4	1.7E+2	2.4E+2	2.2E+2	6.6E+1	2.0E+1	5.5E+0	2.1E+0	1.3E-1

Isotope	23' Elevation Area B							Scenario Time										
	03:30	03:45	04:00	04:15	04:30	04:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00
Kr-85m	5.4E-6	2.5E-6	1.3E-6	7.4E-7	4.7E-7	2.8E-7	1.9E-7	3.1E-7	3.9E-7	4.5E-7	3.0E-5	8.6E+0	1.2E+1	1.0E+1	3.1E+0	9.4E-1	2.5E-1	9.3E-2	5.7E-3
Kr-85	3.8E-7	1.8E-7	9.9E-8	5.8E-8	3.8E-8	2.4E-8	1.7E-8	2.8E-8	3.7E-8	4.4E-8	3.1E-6	9.2E-1	1.3E+0	1.2E+0	3.7E-1	1.2E-1	3.2E-2	1.3E-2	8.0E-4
Kr-87	3.0E-6	1.2E-6	6.0E-7	3.0E-7	1.8E-7	9.4E-8	5.8E-8	8.7E-8	9.9E-8	1.0E-7	6.3E-6	1.6E+0	2.0E+0	1.6E+0	4.4E-1	1.2E-1	2.9E-2	9.8E-3	5.4E-4
Kr-88	1.1E-5	5.1E-6	2.6E-6	1.4E-6	9.0E-7	5.2E-7	3.5E-7	5.6E-7	6.9E-7	7.7E-7	5.1E-5	1.4E+1	1.9E+1	1.6E+1	4.8E+0	1.4E+0	3.7E-1	1.3E-1	8.0E-3
Xe-133	6.8E-5	3.2E-5	1.8E-5	1.0E-5	6.9E-6	4.2E-6	3.0E-6	5.1E-6	6.7E-6	7.9E-6	5.5E-4	1.6E+2	2.3E+2	2.1E+2	6.6E+1	2.1E+1	5.7E+0	2.2E+0	1.4E-1
Xe-135	7.2E-6	3.3E-6	1.8E-6	1.0E-6	6.7E-7	4.1E-7	2.8E-7	4.7E-7	6.1E-7	7.1E-7	4.9E-5	1.4E+1	2.0E+1	1.8E+1	5.4E+0	1.7E+0	4.5E-1	1.7E-1	1.1E-2
TOTAL	9.5E-5	4.4E-5	2.4E-5	1.4E-5	9.1E-6	5.5E-6	3.9E-6	6.5E-6	8.5E-6	9.9E-6	6.9E-4	2.0E+2	2.8E+2	2.6E+2	8.0E+1	2.5E+1	6.8E+0	2.6E+0	1.7E-1
I-131	7.4E-6	3.6E-6	2.0E-6	1.1E-6	7.8E-7	4.9E-7	3.5E-7	2.4E-7	1.8E-7	1.4E-7	4.4E-5	1.3E+1	1.9E+1	1.7E+1	5.3E+0	1.6E+0	4.5E-1	1.7E-1	1.1E-2
I-132	4.6E-6	2.0E-6	1.1E-6	5.4E-7	3.6E-7	2.1E-7	1.4E-7	9.0E-8	6.2E-8	4.3E-8	1.3E-5	3.6E+0	4.7E+0	4.0E+0	1.2E+0	3.3E-1	8.5E-2	3.0E-2	1.8E-3
I-133	1.4E-5	6.8E-6	3.8E-6	2.0E-6	1.5E-6	9.0E-7	6.4E-7	4.5E-7	3.3E-7	2.4E-7	7.9E-5	2.3E+1	3.3E+1	2.9E+1	9.1E+0	2.8E+0	7.7E-1	2.9E-1	1.9E-2
I-134	1.8E-6	7.0E-7	3.2E-7	1.4E-7	8.6E-8	4.4E-8	2.6E-8	1.5E-8	9.1E-9	5.6E-9	1.5E-6	3.6E-1	4.2E-1	3.1E-1	8.1E-2	2.1E-2	4.6E-3	1.5E-3	7.8E-5
I-135	1.1E-5	5.1E-6	2.8E-6	1.5E-6	1.0E-6	6.3E-7	4.4E-7	3.0E-7	2.2E-7	1.6E-7	5.0E-5	1.5E+1	2.0E+1	1.8E+1	5.4E+0	1.6E+0	4.4E-1	1.7E-1	1.0E-2
TOTAL	3.9E-5	1.8E-5	9.9E-6	5.3E-6	3.7E-6	2.3E-6	1.6E-6	1.1E-6	8.0E-7	5.9E-7	1.9E-4	5.5E+1	7.6E+1	6.8E+1	2.1E+1	6.4E+0	1.7E+0	6.7E-1	4.2E-2

Reactor Building Air Activity (μCi/cc)

Isotope	23' Elevation Area C	Scenario Time																
	03:30	03:45	04:00	04:15	04:30	04:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00
Kr-85m	3.7E-6	1.7E-6	9.0E-7	5.0E-7	3.2E-7	1.9E-7	1.3E-7	2.1E-7	2.7E-7	3.1E-7	2.1E-5	5.9E+0	8.0E+0	7.0E+0	2.1E+0	6.4E-1	1.7E-1	6.4E-2	3.9E-3
Kr-85	2.6E-7	1.2E-7	6.8E-8	3.9E-8	2.6E-8	1.6E-8	1.1E-8	1.9E-8	2.6E-8	3.0E-8	2.1E-6	6.3E-1	8.9E-1	8.1E-1	2.5E-1	8.0E-2	2.2E-2	8.6E-3	5.5E-4
Kr-87	2.0E-6	8.4E-7	4.1E-7	2.1E-7	1.2E-7	6.4E-8	4.0E-8	5.9E-8	6.8E-8	7.0E-8	4.3E-6	1.1E+0	1.4E+0	1.1E+0	3.0E-1	8.2E-2	2.0E-2	6.7E-3	3.7E-4
Kr-88	7.7E-6	3.5E-6	1.8E-6	9.9E-7	6.2E-7	3.6E-7	2.4E-7	3.8E-7	4.7E-7	5.2E-7	3.5E-5	9.7E+0	1.3E+1	1.1E+1	3.3E+0	9.6E-1	2.5E-1	9.2E-2	5.5E-3
Xe-133	4.6E-5	2.2E-5	1.2E-5	7.1E-6	4.7E-6	2.9E-6	2.0E-6	3.5E-6	4.6E-6	5.4E-6	3.8E-4	1.1E+2	1.6E+2	1.4E+2	4.5E+1	1.4E+1	3.9E+0	1.5E+0	9.6E-2
Xe-135	4.9E-6	2.3E-6	1.2E-6	7.1E-7	4.6E-7	2.8E-7	1.9E-7	3.2E-7	4.2E-7	4.8E-7	3.3E-5	9.7E+0	1.3E+1	1.2E+1	3.7E+0	1.1E+0	3.1E-1	1.2E-1	7.4E-3
TOTAL	6.5E-5	3.0E-5	1.7E-5	9.5E-6	6.2E-6	3.8E-6	2.6E-6	4.5E-6	5.8E-6	6.8E-6	4.7E-4	1.4E+2	1.9E+2	1.8E+2	5.5E+1	1.7E+1	4.7E+0	1.8E+0	1.1E-1
I-131	5.1E-6	2.4E-6	1.4E-6	7.4E-7	5.4E-7	3.3E-7	2.4E-7	1.7E-7	1.2E-7	9.3E-8	3.0E-5	9.0E+0	1.3E+1	1.1E+1	3.6E+0	1.1E+0	3.1E-1	1.2E-1	7.6E-3
I-132	3.1E-6	1.4E-6	7.3E-7	3.7E-7	2.5E-7	1.4E-7	9.4E-8	6.2E-8	4.3E-8	3.0E-8	8.9E-6	2.5E+0	3.2E+0	2.7E+0	7.9E-1	2.3E-1	5.8E-2	2.1E-2	1.2E-3
I-133	9.7E-6	4.6E-6	2.6E-6	1.4E-6	1.0E-6	6.2E-7	4.4E-7	3.1E-7	2.3E-7	1.7E-7	5.4E-5	1.6E+1	2.2E+1	2.0E+1	6.2E+0	1.9E+0	5.3E-1	2.0E-1	1.3E-2
I-134	1.2E-6	4.8E-7	2.2E-7	9.9E-8	5.9E-8	3.0E-8	1.8E-8	1.0E-8	6.2E-9	3.8E-9	1.0E-6	2.5E-1	2.9E-1	2.1E-1	5.5E-2	1.4E-2	3.2E-3	1.0E-3	5.3E-5
I-135	7.4E-6	3.5E-6	1.9E-6	1.0E-6	7.1E-7	4.3E-7	3.0E-7	2.1E-7	1.5E-7	1.1E-7	3.4E-5	1.0E+1	1.4E+1	1.2E+1	3.7E+0	1.1E+0	3.0E-1	1.1E-1	7.1E-3
TOTAL	2.7E-5	1.2E-5	6.8E-6	3.6E-6	2.6E-6	1.6E-6	1.1E-6	7.5E-7	5.5E-7	4.0E-7	1.3E-4	3.8E+1	5.2E+1	4.7E+1	1.4E+1	4.4E+0	1.2E+0	4.6E-1	2.9E-2

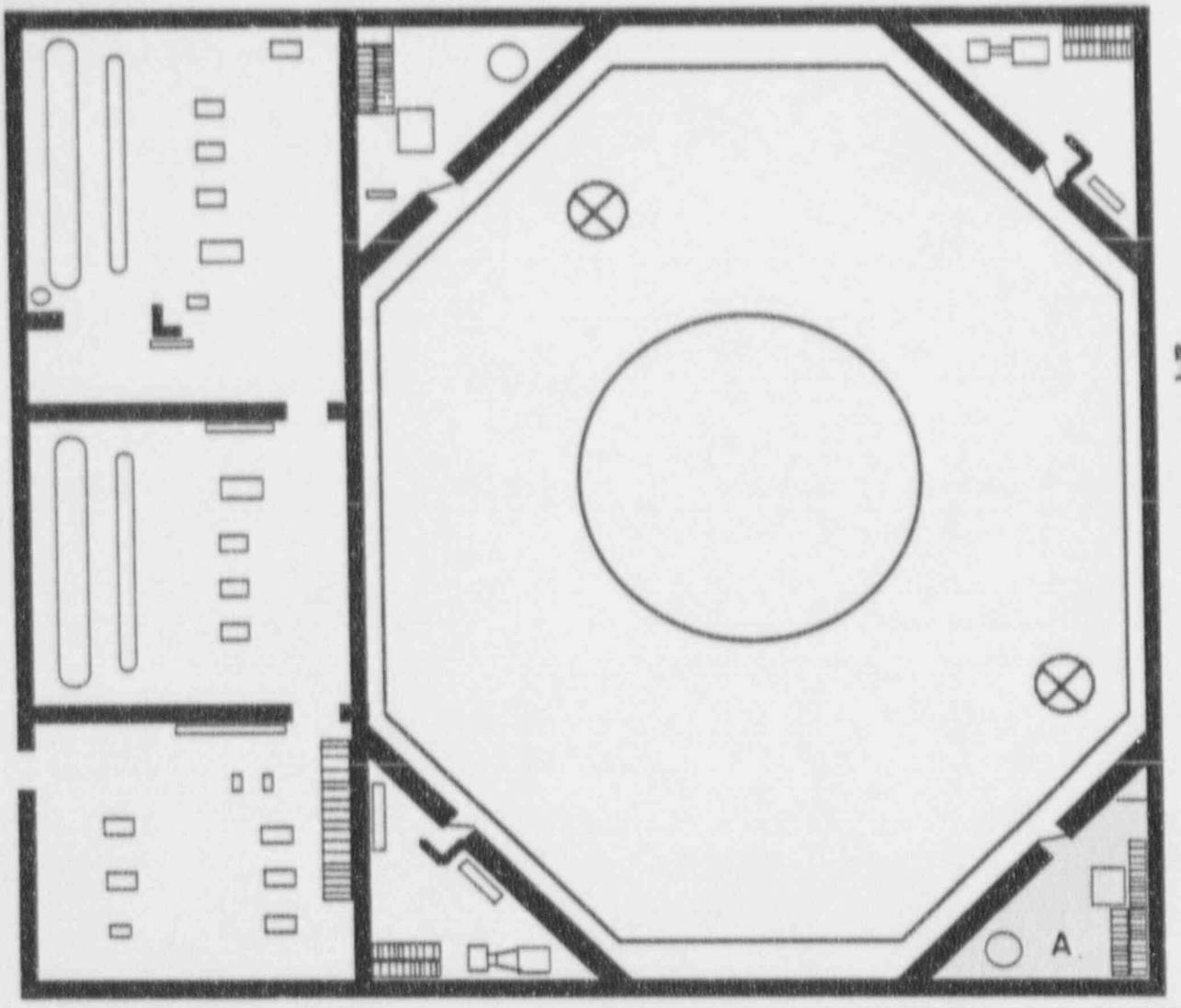
Isotope	23' Elevation Area D	Scenario Time																
	03:30	03:45	04:00	04:15	04:30	04:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00
Kr-85m	2.3E-6	1.0E-6	5.3E-7	3.1E-7	2.0E-7	1.2E-7	8.0E-8	1.3E-7	1.7E-7	1.9E-7	1.3E-5	3.6E+0	4.9E+0	4.3E+0	1.3E+0	3.9E-1	1.1E-1	3.9E-2	2.4E-3
Kr-85	1.6E-7	7.5E-8	4.2E-8	2.4E-8	1.6E-8	9.9E-9	7.0E-9	1.2E-8	1.6E-8	1.9E-8	1.3E-6	3.9E-1	5.5E-1	5.0E-1	1.6E-1	4.9E-2	1.4E-2	5.3E-3	3.4E-4
Kr-87	1.3E-6	5.2E-7	2.5E-7	1.3E-7	7.4E-8	4.0E-8	2.4E-8	3.7E-8	4.2E-8	4.3E-8	2.6E-6	6.8E-1	8.4E-1	6.7E-1	1.8E-1	5.0E-2	1.2E-2	4.1E-3	2.3E-4
Kr-88	4.8E-6	2.1E-6	1.1E-6	6.1E-7	3.8E-7	2.2E-7	1.5E-7	2.4E-7	2.9E-7	3.2E-7	2.1E-5	5.9E+0	7.9E+0	6.8E+0	2.0E+0	5.9E-1	1.5E-1	5.7E-2	3.4E-3
Xe-133	2.9E-5	1.4E-5	7.5E-6	4.4E-6	2.9E-6	1.8E-6	1.3E-6	2.1E-6	2.8E-6	3.3E-6	2.3E-4	6.9E+1	9.7E+1	8.8E+1	2.8E+1	8.7E+0	2.4E+0	9.3E-1	5.9E-2
Xe-135	3.0E-6	1.4E-6	7.6E-7	4.4E-7	2.8E-7	1.7E-7	1.2E-7	2.0E-7	2.6E-7	3.0E-7	2.1E-5	6.0E+0	8.3E+0	7.4E+0	2.3E+0	7.0E-1	1.9E-1	7.3E-2	4.6E-3
TOTAL	4.0E-5	1.9E-5	1.0E-5	5.9E-6	3.8E-6	2.3E-6	1.6E-6	2.8E-6	3.6E-6	4.2E-6	2.9E-4	8.5E+1	1.2E+2	1.1E+2	3.4E+1	1.0E+1	2.9E+0	1.1E+0	7.0E-2
I-131	3.1E-6	1.5E-6	8.4E-7	4.5E-7	3.3E-7	2.0E-7	1.5E-7	1.0E-7	7.7E-8	5.7E-8	1.9E-5	5.5E+0	7.8E+0	7.1E+0	2.2E+0	6.9E-1	1.9E-1	7.3E-2	4.7E-3
I-132	1.9E-6	8.6E-7	4.5E-7	2.3E-7	1.5E-7	8.8E-8	5.8E-8	3.8E-8	2.6E-8	1.8E-8	5.5E-6	1.5E+0	2.0E+0	1.7E+0	4.9E-1	1.4E-1	3.6E-2	1.3E-2	7.6E-4
I-133	6.0E-6	2.9E-6	1.6E-6	8.6E-7	6.1E-7	3.8E-7	2.7E-7	1.9E-7	1.4E-7	1.0E-7	3.3E-5	9.8E+0	1.4E+1	1.2E+1	3.8E+0	1.2E+0	3.2E-1	1.2E-1	7.9E-3
I-134	7.5E-7	3.0E-7	1.4E-7	6.1E-8	3.6E-8	1.8E-8	1.1E-8	6.3E-9	3.8E-9	2.3E-9	6.2E-7	1.5E-1	1.8E-1	1.3E-1	3.4E-2	8.6E-3	2.0E-3	6.2E-4	3.3E-5
I-135	4.6E-6	2.1E-6	1.2E-6	6.2E-7	4.4E-7	2.7E-7	1.8E-7	1.3E-7	9.2E-8	6.7E-8	2.1E-5	6.2E+0	8.5E+0	7.5E+0	2.3E+0	6.9E-1	1.9E-1	7.0E-2	4.4E-3
TOTAL	1.6E-5	7.7E-6	4.2E-6	2.2E-6	1.6E-6	9.6E-7	6.7E-7	4.6E-7	3.4E-7	2.5E-7	7.9E-5	2.3E+1	3.2E+1	2.9E+1	8.9E+0	2.7E+0	7.4E-1	2.8E-1	1.8E-2

Table [illegible]-5.3

Reactor Building Air Activity (μCi/cc)

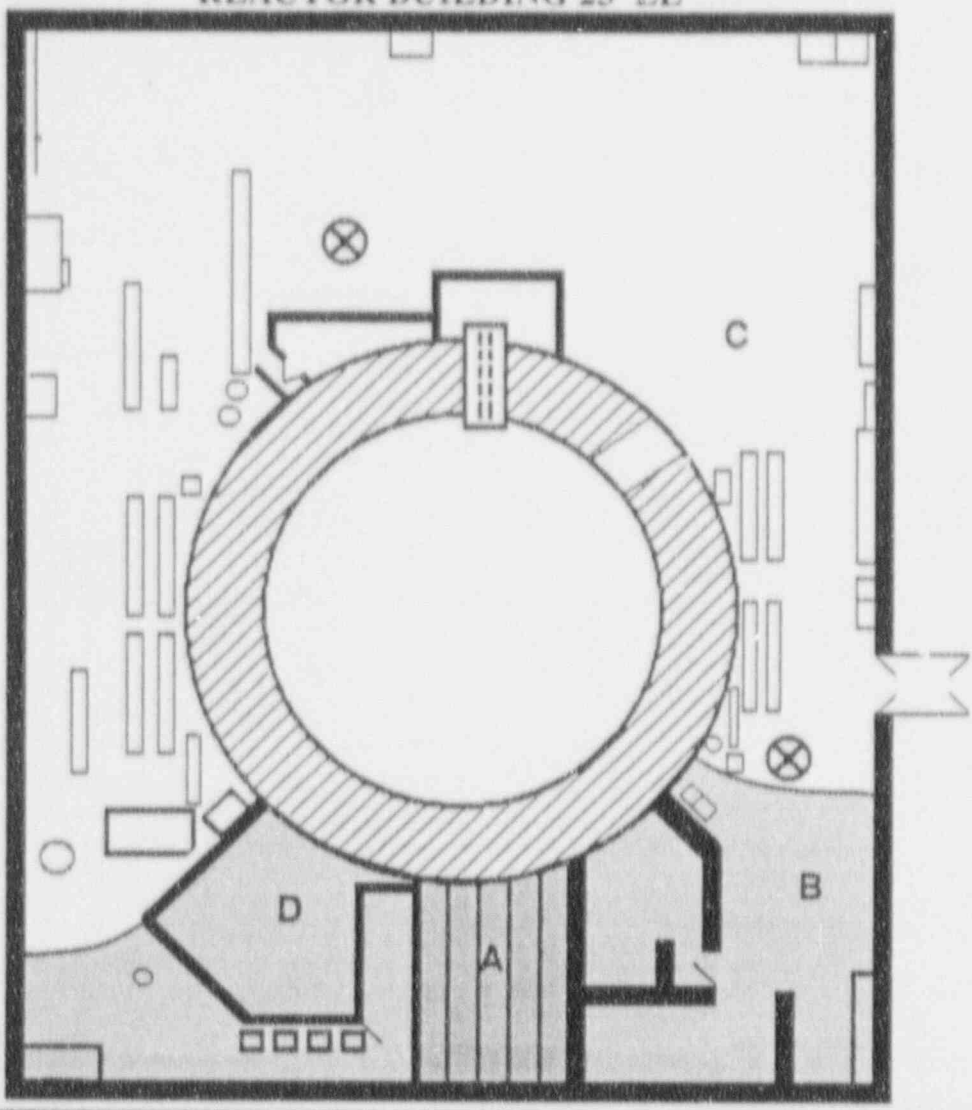
Isotope	2' 9" Elevation Area A	Scenario Time																
	03:30	03:45	04:00	04:15	04:30	04:45	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00
Kr-85m	2.7E-6	1.2E-6	6.6E-7	3.7E-7	2.3E-7	1.4E-7	9.4E-8	1.6E-7	2.0E-7	2.2E-7	1.5E-5	4.3E+0	5.8E+0	5.1E+0	1.6E+0	4.7E-1	1.2E-1	4.7E-2	2.9E-3
Kr-85	1.9E-7	8.9E-8	4.9E-8	2.9E-8	1.9E-8	1.2E-8	8.3E-9	1.4E-8	1.9E-8	2.2E-8	1.6E-6	4.6E-1	6.5E-1	5.9E-1	1.9E-1	5.8E-2	1.6E-2	6.3E-3	4.0E-4
Kr-87	1.5E-6	6.2E-7	3.0E-7	1.5E-7	8.8E-8	4.7E-8	2.9E-8	4.3E-8	5.0E-8	5.1E-8	3.1E-6	8.1E-1	1.0E+0	7.9E-1	2.2E-1	6.0E-2	1.4E-2	4.9E-3	2.7E-4
Kr-88	5.7E-6	2.5E-6	1.3E-6	7.2E-7	4.5E-7	2.6E-7	1.7E-7	2.8E-7	3.5E-7	3.8E-7	2.5E-5	7.1E+0	9.4E+0	8.0E+0	2.4E+0	7.0E-1	1.8E-1	6.7E-2	4.0E-3
Xe-133	3.4E-5	1.6E-5	8.9E-6	5.2E-6	3.4E-6	2.1E-6	1.5E-6	2.5E-6	3.3E-6	3.9E-6	2.8E-4	8.2E+1	1.2E+2	1.0E+2	3.3E+1	1.0E+1	2.9E+0	1.1E+0	7.0E-2
Xe-135	3.5E-6	1.7E-6	9.1E-7	5.2E-7	3.4E-7	2.0E-7	1.4E-7	2.4E-7	3.1E-7	3.5E-7	2.4E-5	7.1E+0	9.8E+0	8.8E+0	2.7E+0	8.4E-1	2.3E-1	8.7E-2	5.4E-3
TOTAL	4.8E-5	2.2E-5	1.2E-5	7.0E-6	4.6E-6	2.8E-6	1.9E-6	3.3E-6	4.2E-6	5.0E-6	3.5E-4	1.0E+2	1.4E+2	1.3E+2	4.0E+1	1.2E+1	3.4E+0	1.3E+0	8.3E-2
I-131	3.7E-6	1.8E-6	9.9E-7	5.4E-7	3.9E-7	2.4E-7	1.7E-7	1.2E-7	9.1E-8	6.8E-8	2.2E-5	6.6E+0	9.3E+0	8.4E+0	2.6E+0	8.2E-1	2.3E-1	8.7E-2	5.6E-3
I-132	2.3E-6	1.0E-6	5.3E-7	2.7E-7	1.8E-7	1.0E-7	6.9E-8	4.5E-8	3.1E-8	2.2E-8	6.5E-6	1.8E+0	2.4E+0	2.0E+0	5.8E-1	1.7E-1	4.2E-2	1.5E-2	9.0E-4
I-133	7.1E-6	3.4E-6	1.9E-6	1.0E-6	7.3E-7	4.5E-7	3.2E-7	2.2E-7	1.6E-7	1.2E-7	3.9E-5	1.2E+1	1.6E+1	1.5E+1	4.6E+0	1.4E+0	3.8E-1	1.5E-1	9.4E-3
I-134	8.9E-7	3.5E-7	1.6E-7	7.2E-8	4.3E-8	2.2E-8	1.3E-8	7.4E-9	4.5E-9	2.8E-9	7.4E-7	1.8E-1	2.1E-1	1.6E-1	4.0E-2	1.0E-2	2.3E-3	7.4E-4	3.9E-5
I-135	5.4E-6	2.6E-6	1.4E-6	7.4E-7	5.2E-7	3.2E-7	2.2E-7	1.5E-7	1.1E-7	8.0E-8	2.5E-5	7.3E+0	1.0E+1	8.9E+0	2.7E+0	8.2E-1	2.2E-1	8.3E-2	5.2E-3
TOTAL	1.9E-5	9.1E-6	5.0E-6	2.6E-6	1.9E-6	1.1E-6	7.9E-7	5.5E-7	4.0E-7	2.9E-7	9.4E-5	2.7E+1	3.8E+1	3.4E+1	1.1E+1	3.2E+0	8.7E-1	3.3E-1	2.1E-2

REACTOR BUILDING 2' 9" EL



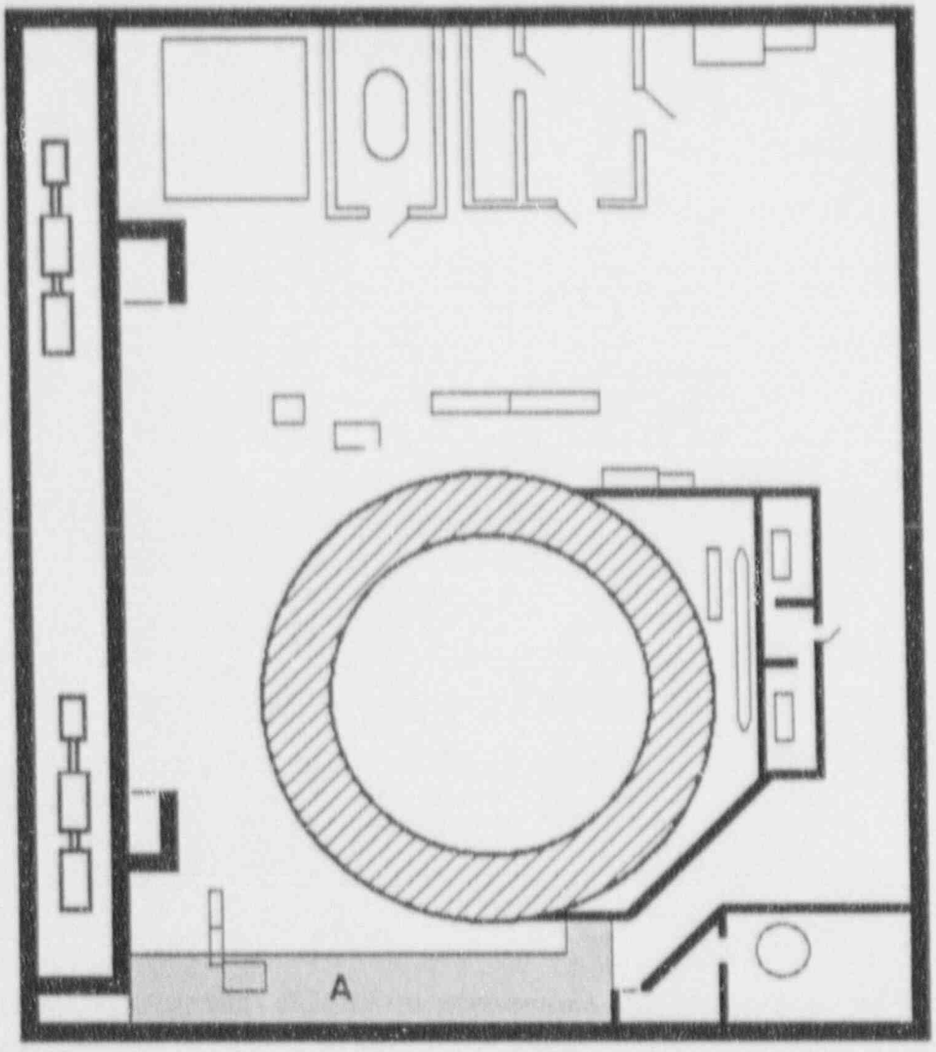
Time	Rad Levels (R/hr)				Airborne (µCi/cc)				Surface Cont (CPM)			
	Area A	Area B	Area C	Area D	Area A	Area B	Area C	Area D	Area A	Area B	Area C	Area D
03:30	0.009				1.9E-5				2.4E+0			
03:45	0.004				9.1E-6				3.5E+0			
04:00	0.002				5.0E-6				4.1E+0			
04:15	0.001				2.6E-6				4.4E+0			
04:30	0.001				1.9E-6				4.6E+0			
04:45	0.001				1.1E-6				4.8E+0			
05:00	0.000				7.9E-7				4.9E+0			
05:15	0.001				5.5E-7				4.9E+0			
05:30	0.001				4.0E-7				5.0E+0			
05:45	0.001				2.9E-7				5.0E+0			
06:00	0.065				9.4E-5				1.6E+1			
06:15	18972				2.7E+1				3.3E+6			
06:30	26592				3.8E+1				8.0E+6			
06:45	23994				3.4E+1				1.2E+7			
07:00	7506				1.1E+1				1.3E+7			
07:15	2332				3.2E+0				1.4E+7			
07:30	642				8.7E-1				1.4E+7			
07:45	247				3.3E-1				1.4E+7			
08:00	16				2.1E-2				1.4E+7			
End	0.052				7.0E-5				1.4E+7			

REACTOR BUILDING 23' EL



Time	Rad Levels (R/hr)				Airborne (μCi/cc)				Surface Cont (CPM)			
	Area A	Area B	Area C	Area D	Area A	Area B	Area C	Area D	Area A	Area B	Area C	Area D
03:30	0.056	0.018	0.012	0.007	1.2E-4	3.9E-5	2.7E-5	1.6E-5	1.5E+1	4.7E+0	3.2E+0	2.0E+0
03:45	0.026	0.008	0.006	0.004	5.7E-5	1.8E-5	1.2E-5	7.7E-6	2.2E+1	7.0E+0	4.8E+0	2.9E+0
04:00	0.014	0.005	0.003	0.002	3.1E-5	9.9E-6	6.8E-6	4.2E-6	2.6E+1	8.2E+0	5.6E+0	3.4E+0
04:15	0.008	0.003	0.002	0.001	1.7E-5	5.3E-6	3.6E-6	2.2E-6	2.8E+1	8.8E+0	6.0E+0	3.7E+0
04:30	0.005	0.002	0.001	0.001	1.2E-5	3.7E-6	2.6E-6	1.6E-6	2.9E+1	9.3E+0	6.3E+0	3.9E+0
04:45	0.003	0.001	0.001	0.000	7.2E-6	2.3E-6	1.6E-6	9.6E-7	3.0E+1	9.5E+0	6.5E+0	4.0E+0
05:00	0.002	0.001	0.000	0.000	5.0E-6	1.6E-6	1.1E-6	6.7E-7	3.1E+1	9.7E+0	6.7E+0	4.1E+0
05:15	0.004	0.001	0.001	0.001	3.5E-6	1.1E-6	7.5E-7	4.6E-7	3.1E+1	9.9E+0	6.8E+0	4.2E+0
05:30	0.005	0.002	0.001	0.001	2.5E-6	8.0E-7	5.5E-7	3.4E-7	3.1E+1	1.0E+1	6.8E+0	4.2E+0
05:45	0.006	0.002	0.001	0.001	1.9E-6	5.9E-7	4.0E-7	2.5E-7	3.2E+1	1.0E+1	6.9E+0	4.2E+0
06:00	0.410	0.130	0.089	0.055	5.9E-4	1.9E-4	1.3E-4	7.9E-5	1.0E+2	3.3E+1	2.3E+1	1.4E+1
06:15	119823	37944	25962	15976	1.7E+2	5.5E+1	3.8E+1	2.3E+1	2.1E+7	6.7E+6	4.6E+6	2.8E+6
06:30	167951	53184	36389	22393	2.4E+2	7.6E+1	5.2E+1	3.2E+1	5.1E+7	1.6E+7	1.1E+7	6.7E+6
06:45	151541	47988	32834	20205	2.2E+2	6.8E+1	4.7E+1	2.9E+1	7.7E+7	2.4E+7	1.7E+7	1.0E+7
07:00	47407	15012	10272	6321	6.6E+1	2.1E+1	1.4E+1	8.9E+0	8.5E+7	2.7E+7	1.8E+7	1.1E+7
07:15	14729	4664	3191	1964	2.0E+1	6.4E+0	4.4E+0	2.7E+0	8.7E+7	2.8E+7	1.9E+7	1.2E+7
07:30	4052	1283	878	540	5.5E+0	1.7E+0	1.2E+0	7.4E-1	8.8E+7	2.8E+7	1.9E+7	1.2E+7
07:45	1562	495	338	208	2.1E+0	6.7E-1	4.6E-1	2.8E-1	8.8E+7	2.8E+7	1.9E+7	1.2E+7
08:00	99	31	21	13	1.3E-1	4.2E-2	2.9E-2	1.8E-2	8.8E+7	2.8E+7	1.9E+7	1.2E+7
End	0.330	0.105	0.072	0.044	4.4E-4	1.4E-4	9.6E-5	5.9E-5	8.8E+7	2.8E+7	1.9E+7	1.2E+7

REACTOR BUILDING 51' EL



Time	Rad Levels (R/hr)				Airborne (µCi/cc)				Surface Cont (CPM)			
	Area A	Area B	Area C	Area D	Area A	Area B	Area C	Area D	Area A	Area B	Area C	Area D
03:30	2.498											
03:45	1.169											
04:00	0.638											
04:15	0.367											
04:30	0.240											
04:45	0.146											
05:00	0.102											
05:15	0.070											
05:30	0.051											
05:45	0.038											
06:00	17.940											
06:15	5.3E+6											
06:30	7.5E+6											
06:45	6.7E+6											
07:00	2.1E+6											
07:15	6.5E+5											
07:30	1.8E+5											
07:45	6.9E+4											
08:00	4.4E+											
End	14.67											

Section 8.5
Dose Assessment Data

Scenario Time: 06:15
Monitor Reading: 4

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time -->
Time Since S/D ---> 5.62 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 5.5 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 8.47E+007 µCi/sec Hal. Release ---> 2.31E+005 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.5E-005	0.0E+000	2.3E+002	0.0E+000	1.82E+003	0.00E+000	17:40	0.00E+000
.25	8.5E-006	2.5E-006	1.3E+002	3.7E+002	1.00E+003	2.99E+003	17:42	5.81E-007
.50	4.8E-006	6.2E-006	7.0E+001	9.2E+002	5.64E+002	7.33E+003	17:44	1.42E-006
.75	2.7E-006	3.5E-006	3.9E+001	5.2E+002	3.13E+002	4.19E+003	17:47	8.11E-007
1.0	1.5E-006	1.9E-006	2.2E+001	2.8E+002	1.77E+002	2.23E+003	17:50	4.31E-007
1.5	5.7E-007	7.9E-007	8.2E+000	1.2E+002	6.55E+001	9.31E+002	17:55	1.79E-007
2.0	2.7E-007	6.1E-007	3.8E+000	9.0E+001	3.05E+001	7.19E+002	18:01	1.38E-007
2.5	2.0E-007	5.0E-007	2.8E+000	7.4E+001	2.24E+001	5.93E+002	18:06	1.13E-007
3.0	1.7E-007	4.2E-007	2.3E+000	6.3E+001	1.86E+001	5.02E+002	18:12	9.52E-008
3.5	1.4E-007	3.7E-007	2.0E+000	5.4E+001	1.57E+001	4.34E+002	18:17	8.20E-008
4.0	1.3E-007	3.3E-007	1.7E+000	4.8E+001	1.38E+001	3.86E+002	18:23	7.26E-008
4.5	1.1E-007	2.9E-007	1.5E+000	4.3E+001	1.19E+001	3.47E+002	18:28	6.50E-008
5.0	1.0E-007	2.7E-007	1.4E+000	4.0E+001	1.09E+001	3.18E+002	18:34	5.93E-008
7.5	6.5E-008	1.9E-007	8.2E-001	2.8E+001	6.59E+000	2.26E+002	19:01	4.13E-008
10.0	4.9E-008	1.5E-007	5.9E-001	2.2E+001	4.69E+000	1.78E+002	19:28	3.18E-008

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 5.5 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	4 9 10
SHELTER	1
EVACUATE	12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.84E+00	1.66E+00	N/A
4	3.04E-02	2.74E-02	N/A
9 10	1.12E-02	1.01E-02	N/A

ARRIVAL HRS
0.02
0.36
0.91

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	7.36E+00	6.44E+00	N/A
4	7.20E-01	6.30E-01	N/A
9 10	3.20E-01	2.80E-01	N/A

E.T.E. HRS
N/A

Time: _____

Initials: _____

Scenario Time: 06:20
Monitor Reading: 359

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time -->
Time Since S/D ---> 5.70 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 5.5 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 7.69E+009 µCi/sec Hal. Release ---> 2.09E+007 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.5E-005	0.0E+000	2.0E+004	0.0E+000	1.64E+005	0.00E+000	17:38	0.00E+000
.25	8.5E-006	2.5E-006	1.1E+004	3.4E+004	9.04E+004	2.71E+005	17:40	5.25E-005
.50	4.8E-006	6.2E-006	6.3E+003	8.3E+004	5.08E+004	6.65E+005	17:42	1.28E-004
.75	2.7E-006	3.5E-006	3.5E+003	4.8E+004	2.82E+004	3.80E+005	17:45	7.33E-005
1.0	1.5E-006	1.9E-006	2.0E+003	2.5E+004	1.60E+004	2.03E+005	17:48	3.90E-005
1.5	5.7E-007	7.9E-007	7.4E+002	1.1E+004	5.90E+003	8.45E+004	17:53	1.62E-005
2.0	2.7E-007	6.1E-007	3.4E+002	8.2E+003	2.75E+003	6.52E+004	17:59	1.24E-005
2.5	2.0E-007	5.0E-007	2.5E+002	6.7E+003	2.02E+003	5.36E+004	18:04	1.02E-005
3.0	1.7E-007	4.2E-007	2.1E+002	5.7E+003	1.67E+003	4.55E+004	18:10	8.60E-006
3.5	1.4E-007	3.7E-007	1.8E+002	4.9E+003	1.41E+003	3.94E+004	18:15	7.41E-006
4.0	1.3E-007	3.3E-007	1.5E+002	4.4E+003	1.24E+003	3.50E+004	18:21	6.56E-006
4.5	1.1E-007	2.9E-007	1.3E+002	3.9E+003	1.07E+003	3.15E+004	18:26	5.88E-006
5.0	1.0E-007	2.7E-007	1.2E+002	3.6E+003	9.79E+002	2.89E+004	18:32	5.36E-006
7.5	6.5E-008	1.9E-007	7.4E+001	2.6E+003	5.94E+002	2.05E+004	18:59	3.74E-006
10.0	4.9E-008	1.5E-007	5.3E+001	2.0E+003	4.23E+002	1.61E+004	19:26	2.88E-006

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 5.5 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs
1) OFF-SEASON 2) MIDWEEK	3) MIDDAY	4) GOOD WEATHER

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	
SHELTER	
EVACUATE	1 4 9 10 12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.60E+02	1.44E+02	1.16E+02
4	2.72E+00	2.45E+00	1.86E+00
9 10	9.60E-03	8.64E-03	5.91E-03

ARRIVAL HRS
0.02
0.36
0.91

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	6.64E+02	5.81E+02	4.82E+02
4	6.56E+01	5.74E+01	4.48E+01
9 10	2.88E+01	2.52E+01	1.77E+01

E.T.E. HRS
5.83

Time: _____

Initials: _____

Scenario Time: 06:25
Monitor Reading:460

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time -->
Time Since S/D ---> 5.79 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 6.0 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 9.97E+009 µCi/sec Hal. Release ---> 2.70E+007 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.4E-005	0.0E+000	2.4E+004	0.0E+000	1.93E+005	0.00E+000	10:50	0.00E+000
.25	7.8E-006	2.3E-006	1.3E+004	4.0E+004	1.07E+005	3.23E+005	10:52	6.22E-005
.50	4.4E-006	5.7E-006	7.5E+003	9.9E+004	6.00E+004	7.91E+005	10:54	1.52E-004
.75	2.5E-006	3.2E-006	4.2E+003	5.7E+004	3.33E+004	4.52E+005	10:56	8.68E-005
1.0	1.4E-006	1.7E-006	2.4E+003	3.0E+004	1.89E+004	2.41E+005	10:59	4.62E-005
1.5	5.2E-007	7.2E-007	8.7E+002	1.3E+004	6.98E+003	1.00E+005	11:04	1.92E-005
2.0	2.5E-007	5.6E-007	4.1E+002	9.7E+003	3.26E+003	7.75E+004	11:09	1.47E-005
2.5	1.8E-007	4.6E-007	3.0E+002	8.0E+003	2.40E+003	6.40E+004	11:14	1.21E-005
3.0	1.5E-007	3.9E-007	2.5E+002	6.8E+003	1.99E+003	5.41E+004	11:19	1.02E-005
3.5	1.3E-007	3.4E-007	2.1E+002	5.9E+003	1.68E+003	4.68E+004	11:24	8.79E-006
4.0	1.2E-007	3.0E-007	1.8E+002	5.2E+003	1.47E+003	4.16E+004	11:29	7.78E-006
4.5	1.0E-007	2.7E-007	1.6E+002	4.7E+003	1.27E+003	3.74E+004	11:34	6.98E-006
5.0	9.3E-008	2.5E-007	1.5E+002	4.3E+003	1.17E+003	3.43E+004	11:39	6.37E-006
7.5	6.0E-008	1.8E-007	8.9E+001	3.1E+003	7.11E+002	2.44E+004	12:04	4.45E-006
10.0	4.5E-008	1.4E-007	6.3E+001	2.4E+003	5.08E+002	1.92E+004	12:29	3.43E-006

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 6.0 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs
1) OFF-SEASON	2) MIDWEEK	3) MIDDAY 4) GOOD WEATHER

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	
SHELTER	
EVACUATE	1 4 9 10 12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.92E+02	1.73E+02	1.39E+02
4	3.28E+00	2.95E+00	2.25E+00
9 10	1.20E+00	1.08E+00	7.49E-01

ARRIVAL HRS
0.02
0.33
0.83

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	7.92E+02	6.93E+02	5.75E+02
4	7.76E+01	6.79E+01	5.33E+01
9 10	3.44E+01	3.01E+01	2.15E+01

E.T.E. HRS
5.83

Time: _____

Initials: _____

Scenario Time: 06:30
Monitor Reading: 378

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

...g/Time --> Reactor S/D Date/Time -->
...me Since S/D ---> 5.87 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 6.0 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 8.29E+009 µCi/sec Hal. Release ---> 2.23E+007 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.4E-005	0.0E+000	2.0E+004	0.0E+000	1.60E+005	0.00E+000	17:44	0.00E+000
.25	7.8E-006	2.3E-006	1.1E+004	3.3E+004	8.81E+004	2.68E+005	17:46	5.14E-005
.50	4.4E-006	5.7E-006	6.2E+003	8.2E+004	4.95E+004	6.57E+005	17:48	1.26E-004
.75	2.5E-006	3.2E-006	3.4E+003	4.7E+004	2.75E+004	3.76E+005	17:50	7.18E-005
1.0	1.4E-006	1.7E-006	1.9E+003	2.5E+004	1.56E+004	2.00E+005	17:53	3.82E-005
1.5	5.2E-007	7.2E-007	7.2E+002	1.0E+004	5.76E+003	8.34E+004	17:58	1.59E-005
2.0	2.5E-007	5.6E-007	3.4E+002	8.0E+003	2.69E+003	6.44E+004	18:03	1.22E-005
2.5	1.8E-007	4.6E-007	2.5E+002	6.6E+003	1.98E+003	5.31E+004	18:08	1.00E-005
3.0	1.5E-007	3.9E-007	2.0E+002	5.6E+003	1.64E+003	4.60E+004	18:13	8.44E-006
3.5	1.3E-007	3.4E-007	1.7E+002	4.9E+003	1.39E+003	3.89E+004	18:18	7.27E-006
4.0	1.2E-007	3.0E-007	1.5E+002	4.3E+003	1.22E+003	3.46E+004	18:23	6.44E-006
4.5	1.0E-007	2.7E-007	1.3E+002	3.9E+003	1.05E+003	3.11E+004	18:28	5.77E-006
5.0	9.3E-008	2.5E-007	1.2E+002	3.6E+003	9.61E+002	2.85E+004	18:33	5.27E-006
7.5	6.0E-008	1.8E-007	7.3E+001	2.5E+003	5.86E+002	2.03E+004	18:58	3.68E-006
10.0	4.5E-008	1.4E-007	5.2E+001	2.0E+003	4.19E+002	1.59E+004	19:23	2.84E-006

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 6.0 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs
1) OFF-SEASON	2) MIDWEEK	3) MIDDAY 4) GOOD WEATHER

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	
SHELTER	
EVACUATE	1 4 9 10 12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.60E+02	1.14E+02	1.16E+02
4	2.72E+00	2.45E+00	1.87E+00
9 10	9.60E-01	8.64E-01	6.00E-01

ARRIVAL HRS
0.02
0.33
0.83

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	6.56E+02	5.74E+02	4.76E+02
4	6.40E+01	5.60E+01	4.40E+01
9 10	2.88E+01	2.52E+01	1.80E+01

E.T.E. HRS
5.83

Time:_____

Initials:_____

Scenario Time: 06:45
Monitor Reading: 330

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time -->
Time Since S/D ---> 6.12 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 6.0 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 7.48E+009 µCi/sec Hal. Release ---> 1.99E+007 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.4E-005	0.0E+000	1.8E+004	0.0E+000	1.41E+005	0.00E+000	07:23	0.00E+000
.25	7.8E-006	2.3E-006	9.7E+003	3.0E+004	7.78E+004	2.42E+005	07:25	4.59E-005
.50	4.4E-006	5.7E-006	5.5E+003	7.4E+004	4.37E+004	5.93E+005	07:27	1.12E-004
.75	2.5E-006	3.2E-006	3.0E+003	4.2E+004	2.43E+004	3.39E+005	07:29	6.40E-005
1.0	1.4E-006	1.7E-006	1.7E+003	2.3E+004	1.38E+004	1.80E+005	07:32	3.40E-005
1.5	5.2E-007	7.2E-007	6.4E+002	9.4E+003	5.09E+003	7.52E+004	07:37	1.41E-005
2.0	2.5E-007	5.6E-007	3.0E+002	7.3E+003	2.38E+003	5.81E+004	07:42	1.09E-005
2.5	1.8E-007	4.6E-007	2.2E+002	6.0E+003	1.75E+003	4.79E+004	07:47	8.93E-006
3.0	1.5E-007	3.9E-007	1.8E+002	5.1E+003	1.45E+003	4.05E+004	07:52	7.52E-006
3.5	1.3E-007	3.4E-007	1.5E+002	4.4E+003	1.22E+003	3.51E+004	07:57	6.48E-006
4.0	1.2E-007	3.0E-007	1.3E+002	3.9E+003	1.07E+003	3.12E+004	08:02	5.74E-006
4.5	1.0E-007	2.7E-007	1.2E+002	3.5E+003	9.26E+002	2.80E+004	08:07	5.15E-006
5.0	9.3E-008	2.5E-007	1.1E+002	3.2E+003	8.49E+002	2.57E+004	08:12	4.70E-006
7.5	6.0E-008	1.8E-007	6.5E+001	2.3E+003	5.18E+002	1.83E+004	08:37	3.28E-006
10.0	4.5E-008	1.4E-007	4.6E+001	1.8E+003	3.70E+002	1.43E+004	09:02	2.53E-006

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 6.0 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs
1) OFF-SEASON 2) MIDWEEK	3) MIDDAY	4) GOOD WEATHER

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	
SHELTER	9 10
EVACUATE	1 4 12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.44E+02	1.30E+02	1.02E+02
4	2.40E+00	2.16E+00	1.60E+00
9 10	8.80E-01	7.92E-01	N/A

ARRIVAL HRS
0.02
0.33
0.83

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	5.92E+02	5.18E+02	4.18E+02
4	5.84E+01	5.11E+01	3.90E+01
9 10	2.56E+01	2.24E+01	N/A

E.T.E. HRS
5.67

Time: _____

Initials: _____

Scenario Time: 07:00
Monitor Reading: 100

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time ---> Reactor S/D Date/Time ---> 00/00/00 @ 00:00
Time Since S/D ---> 6.37 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 6.5 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 2.34E+009 µCi/sec Hal. Release ---> 6.15E+006 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.3E-005	0.0E+000	5.0E+003	0.0E+000	3.98E+004	0.00E+000	13:54	0.00E+000
.25	7.2E-006	2.1E-006	2.7E+003	8.7E+003	2.20E+004	6.98E+004	13:55	1.31E-005
.50	4.1E-006	5.2E-006	1.5E+003	2.1E+004	1.24E+004	1.71E+005	13:58	3.20E-005
.75	2.3E-006	3.0E-006	8.6E+002	1.2E+004	6.87E+003	9.78E+004	13:60	1.83E-005
1.0	1.3E-006	1.6E-006	4.9E+002	6.5E+003	3.89E+003	5.21E+004	14:02	9.72E-006
1.5	4.8E-007	6.6E-007	1.8E+002	2.7E+003	1.44E+003	2.17E+004	14:07	4.04E-006
2.0	2.3E-007	5.1E-007	8.4E+001	2.1E+003	6.73E+002	1.68E+004	14:11	3.11E-006
2.5	1.7E-007	4.2E-007	6.2E+001	1.7E+003	4.95E+002	1.38E+004	14:16	2.55E-006
3.0	1.4E-007	3.6E-007	5.1E+001	1.5E+003	4.11E+002	1.17E+004	14:21	2.15E-006
3.5	1.2E-007	3.1E-007	4.3E+001	1.3E+003	3.48E+002	1.01E+004	14:25	1.85E-006
4.0	1.1E-007	2.8E-007	3.8E+001	1.1E+003	3.05E+002	8.99E+003	14:30	1.64E-006
4.5	9.3E-008	2.5E-007	3.3E+001	1.0E+003	2.63E+002	8.09E+003	14:35	1.47E-006
5.0	8.6E-008	2.3E-007	3.0E+001	9.3E+002	2.42E+002	7.41E+003	14:39	1.34E-006
7.5	5.5E-008	1.6E-007	1.8E+001	6.6E+002	1.48E+002	5.27E+003	15:02	9.40E-007
10.0	4.1E-008	1.3E-007	1.3E+001	5.2E+002	1.06E+002	4.14E+003	15:25	7.26E-007

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 6.5 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs	
1) OFF-SEASON	2) MIDWEEK	3) MIDDAY	4) GOOD WEATHER

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	
SHELTER	4 9 10
EVACUATE	1 12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	4.00E+01	3.60E+01	2.83E+01
4	6.72E-01	6.05E-01	N/A
9 10	2.40E-01	2.16E-01	N/A

ARRIVAL HRS
0.02
0.31
0.77

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.68E+02	1.47E+02	1.19E+02
4	1.68E+01	1.47E+01	N/A
9 10	7.44E+00	6.51E+00	N/A

E.T.E. HRS
5.67

Time: _____

Initials: _____

Scenario Time: 07:15
Monitor Reading:30

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time --> 00/00/00 @ 00:00
Time Since S/D ---> 6.62 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 7.0 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 7.25E+008 µCi/sec Hal. Release ---> 1.88E+006 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.2E-005	0.0E+000	1.4E+003	0.0E+000	1.12E+004	0.00E+000	13:58	0.00E+000
.25	6.7E-006	2.0E-006	7.7E+002	2.5E+003	6.19E+003	2.01E+004	13:59	3.72E-006
.50	3.8E-006	4.9E-006	4.3E+002	6.1E+003	3.48E+003	4.92E+004	14:01	9.11E-006
.75	2.1E-006	2.8E-006	2.4E+002	3.5E+003	1.93E+003	2.81E+004	14:03	5.20E-006
1.0	1.2E-006	1.5E-006	1.4E+002	1.9E+003	1.10E+003	1.50E+004	14:06	2.76E-006
1.5	4.5E-007	6.2E-007	5.1E+001	7.8E+002	4.06E+002	6.24E+003	14:10	1.15E-006
2.0	2.1E-007	4.8E-007	2.4E+001	6.0E+002	1.90E+002	4.82E+003	14:14	8.83E-007
2.5	1.6E-007	3.9E-007	1.7E+001	5.0E+002	1.40E+002	3.98E+003	14:18	7.27E-007
3.0	1.3E-007	3.3E-007	1.4E+001	4.2E+002	1.16E+002	3.36E+003	14:23	6.12E-007
3.5	1.1E-007	2.9E-007	1.2E+001	3.6E+002	9.82E+001	2.91E+003	14:27	5.28E-007
4.0	9.9E-008	2.6E-007	1.1E+001	3.2E+002	8.62E+001	2.58E+003	14:31	4.68E-007
4.5	8.6E-008	2.3E-007	9.3E+000	2.9E+002	7.45E+001	2.32E+003	14:36	4.19E-007
5.0	8.0E-008	2.1E-007	8.6E+000	2.7E+002	6.84E+001	2.13E+003	14:40	3.83E-007
7.5	5.1E-008	1.5E-007	5.3E+000	1.9E+002	4.20E+001	1.51E+003	15:01	2.68E-007
10.0	3.8E-008	1.2E-007	3.8E+000	1.5E+002	3.02E+001	1.19E+003	15:23	2.07E-007

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 7.0 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs
1) OFF-SEASON 2) MIDWEEK	3) MIDDAY	4) GOOD WEATHER

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	4 9 10
SHELTER	
EVACUATE	1 12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.12E+01	1.01E+01	7.91E+00
4	1.92E-01	1.73E-01	N/A
9 10	6.88E-02	6.19E-02	N/A

ARRIVAL HRS
0.02
0.29
0.71

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	4.88E+01	4.27E+01	3.45E+01
4	4.80E+00	4.20E+00	N/A
9 10	2.16E+00	1.89E+00	N/A

E.T.E. HRS
5.67

Time:_____

Initials:_____

Scenario Time: 07:30
Monitor Reading: 8

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time --> 00/00/00 @ 00:00
Time Since S/D ---> 6.87 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 7.5 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 1.99E+008 µCi/sec Hal. Release ---> 5.11E+005 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.1E-005	0.0E+000	3.5E+002	0.0E+000	2.81E+003	0.00E+000	13:58	0.00E+000
.25	6.2E-006	1.8E-006	1.9E+002	6.4E+002	1.55E+003	5.15E+003	13:59	9.44E-007
.50	3.5E-006	4.5E-006	1.1E+002	1.6E+003	8.74E+002	1.26E+004	14:01	2.31E-006
.75	2.0E-006	2.6E-006	6.1E+001	9.0E+002	4.86E+002	7.22E+003	14:03	1.32E-006
1.0	1.1E-006	1.4E-006	3.4E+001	4.8E+002	2.75E+002	3.84E+003	14:05	7.02E-007
1.5	4.2E-007	5.8E-007	1.3E+001	2.0E+002	1.02E+002	1.60E+003	14:09	2.92E-007
2.0	2.0E-007	4.4E-007	6.0E+000	1.5E+002	4.77E+001	1.24E+003	14:13	2.24E-007
2.5	1.5E-007	3.7E-007	4.4E+000	1.3E+002	3.52E+001	1.02E+003	14:17	1.85E-007
3.0	1.2E-007	3.1E-007	3.6E+000	1.1E+002	2.92E+001	8.63E+002	14:21	1.56E-007
3.5	1.0E-007	2.7E-007	3.1E+000	9.3E+001	2.47E+001	7.46E+002	14:25	1.34E-007
4.0	9.2E-008	2.4E-007	2.7E+000	8.3E+001	2.17E+001	6.63E+002	14:29	1.19E-007
4.5	8.1E-008	2.1E-007	2.3E+000	7.5E+001	1.88E+001	5.96E+002	14:33	1.07E-007
5.0	7.5E-008	2.0E-007	2.2E+000	6.8E+001	1.73E+001	5.47E+002	14:37	9.74E-008
7.5	4.8E-008	1.4E-007	1.3E+000	4.9E+001	1.06E+001	3.88E+002	14:57	6.82E-008
10.0	3.6E-008	1.1E-007	9.6E-001	3.8E+001	7.67E+000	3.05E+002	15:17	5.28E-008

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 7.5 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	4 9 10
SHELTER	1
EVACUATE	12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	2.80E+00	2.52E+00	N/A
4	4.80E-02	4.32E-02	N/A
9 10	1.76E-02	1.58E-02	N/A

ARRIVAL HRS
0.02
0.27
0.67

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.28E+01	1.12E+01	N/A
4	1.20E+00	1.05E+00	N/A
9 10	5.44E-01	4.76E-01	N/A

E.T.E. HRS
N/A

Time:_____

Initials:_____

Scenario Time: 07:45
Monitor Reading: 3

BOSTON EDISON COMPANY
INTERACTIVE RADIATION DOSE ASSESSMENT PROGRAM

Date/Time --> Reactor S/D Date/Time --> 00/00/00 @ 00:00
Time Since S/D ---> 7.12 hrs Projected Release Duration ---> 8.0 hrs
Affected Sector ---> R(NNW) Wind Speed (mph) ---> 7.5 Stability Class ---> B
Release Point ---> Main Stack
Tot. Release ---> 7.71E+007 µCi/sec Hal. Release ---> 1.95E+005 µCi/sec

DIST (mi)	GAMMA X/Q (sec/m3)	CONC. X/Q (sec/m3)	W.BODY DOSE RATE (mR/hr)	CHILD THYROID DOSE RATE (mR/hr)	W.BODY DOSE (mRem)	CHILD THYROID DOSE (mRem)	PLUME ARRIVAL TIME (hr:min)	GROUND LEVEL HALOGEN CONC. (µCi/cc)
.125	1.1E-005	0.0E+000	1.3E+002	0.0E+000	1.06E+003	0.00E+000	14:01	0.00E+000
.25	6.2E-006	1.8E-006	7.3E+001	2.5E+002	5.87E+002	1.99E+003	14:02	3.61E-007
.50	3.5E-006	4.5E-006	4.1E+001	6.1E+002	3.30E+002	4.88E+003	14:04	8.83E-007
.75	2.0E-006	2.6E-006	2.3E+001	3.5E+002	1.84E+002	2.79E+003	14:06	5.04E-007
1.0	1.1E-006	1.4E-006	1.3E+001	1.9E+002	1.04E+002	1.49E+003	14:08	2.68E-007
1.5	4.2E-007	5.8E-007	4.8E+000	7.7E+001	3.86E+001	6.19E+002	14:12	1.11E-007
2.0	2.0E-007	4.4E-007	2.3E+000	6.0E+001	1.80E+001	4.78E+002	14:16	8.57E-008
2.5	1.5E-007	3.7E-007	1.7E+000	4.9E+001	1.33E+001	3.94E+002	14:20	7.05E-008
3.0	1.2E-007	3.1E-007	1.4E+000	4.2E+001	1.10E+001	3.33E+002	14:24	5.94E-008
3.5	1.0E-007	2.7E-007	1.2E+000	3.6E+001	9.34E+000	2.88E+002	14:28	5.13E-008
4.0	9.2E-008	2.4E-007	1.0E+000	3.2E+001	8.21E+000	2.56E+002	14:32	4.54E-008
4.5	8.1E-008	2.1E-007	8.9E-001	2.9E+001	7.10E+000	2.30E+002	14:36	4.07E-008
5.0	7.5E-008	2.0E-007	8.2E-001	2.6E+001	6.52E+000	2.11E+002	14:40	3.72E-008
7.5	4.8E-008	1.4E-007	5.0E-001	1.9E+001	4.02E+000	1.50E+002	15:00	2.61E-008
10.0	3.6E-008	1.1E-007	3.6E-001	1.5E+001	2.90E+000	1.18E+002	15:20	2.02E-008

PROTECTIVE ACTION RECOMMENDATIONS ARE BASED ON THE CONDITIONS LISTED BELOW:

W.S.: 7.5 mph	W.D.: 160°	RELEASE DURATION: 8.0 hrs

PROTECTIVE ACTION RECOMMENDATIONS

PROTECTIVE ACTIONS	SUBAREAS
NOT AFFECTED	2 3 5 6 7 8 11
NO ACTION	4 9 10
SHELTER	1
EVACUATE	12

PROTECTIVE ACTION RECOMMENDATION TOTAL DOSE ESTIMATES (REM)

WHOLE BODY

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	1.04E+00	9.36E-01	N/A
4	1.84E-02	1.66E-02	N/A
9 10	6.56E-03	5.90E-03	N/A

ARRIVAL HRS
0.02
0.27
0.67

CHILD THYROID

SUBAREA	NO ACTION	SHELTER	EVACUATE
1 12	4.88E+00	4.27E+00	N/A
4	4.80E-01	4.20E-01	N/A
9 10	2.08E-01	1.82E-01	N/A

E.T.E. HRS
N/A

Time: _____

Initials: _____

Table 8-5

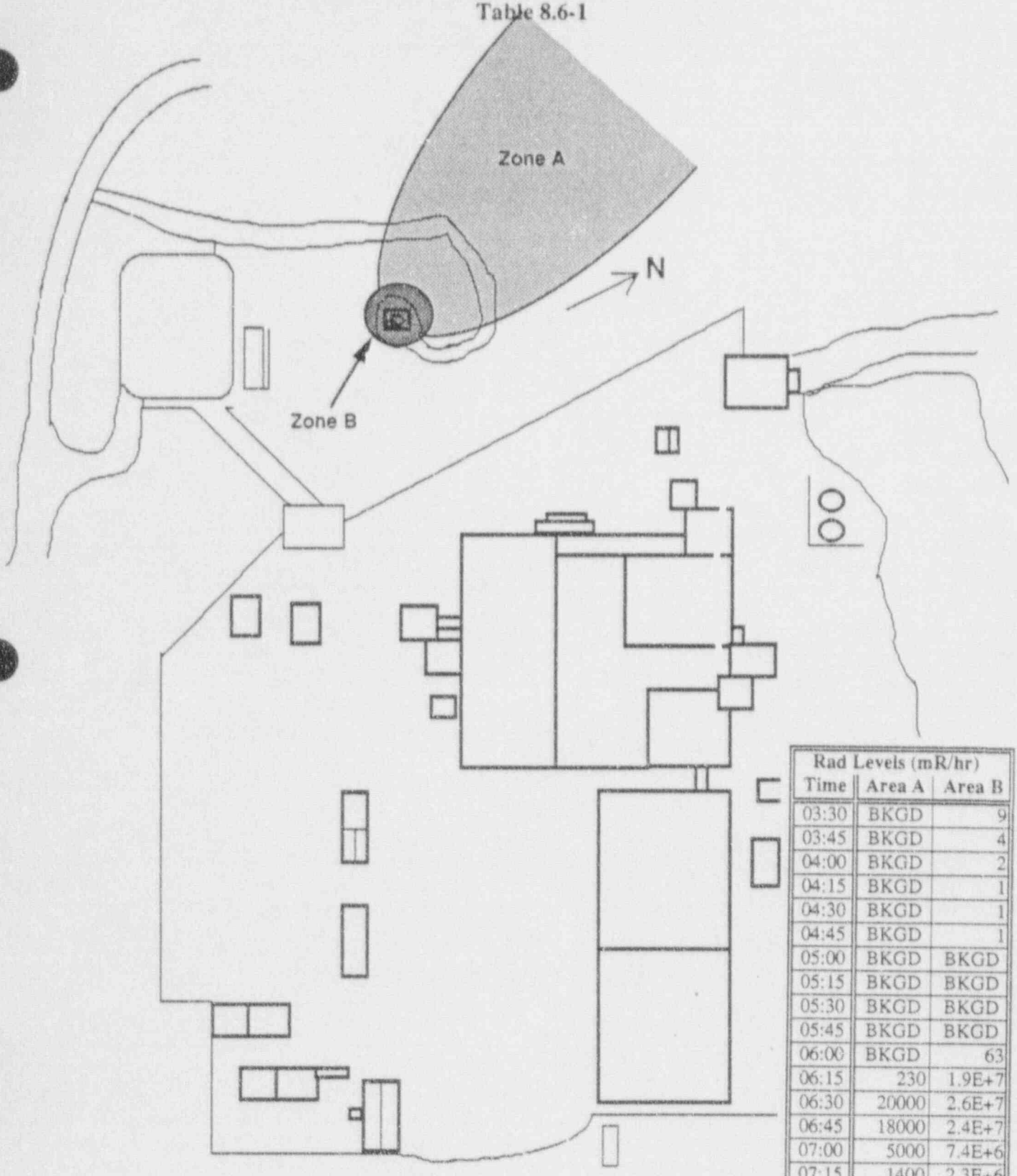
Maximum Projected Population Exposure

Time of Release From-To	Duration Hours	Area Ring	*Whole Body* Dose Rate Rem/Hr	*Whole Body* Dose Rem	*Child Thyroid* Dose Rate Rem/Hr	*Child Thyroid* Dose Rem
06:15-06:20	0.083	Inner	0.230	0.019	0.920	0.076
		Middle	0.004	0.000	0.090	0.007
		Outer	0.001	0.000	0.040	0.003
06:20-06:25	0.083	Inner	20.000	1.660	83.000	6.889
		Middle	0.340	0.028	8.200	0.681
		Outer	0.120	0.010	3.600	0.299
06:25-06:30	0.083	Inner	24.000	1.992	99.000	8.217
		Middle	0.410	0.034	9.700	0.805
		Outer	0.150	0.012	4.300	0.357
06:30-06:45	0.25	Inner	20.000	5.000	82.000	20.500
		Middle	0.340	0.085	8.000	2.000
		Outer	0.120	0.030	3.600	0.900
06:45-07:00	0.25	Inner	18.000	4.500	74.000	18.500
		Middle	0.300	0.075	7.300	1.825
		Outer	0.110	0.028	3.200	0.800
07:00-07:15	0.25	Inner	5.000	1.250	21.000	5.250
		Middle	0.084	0.021	2.100	0.525
		Outer	0.030	0.008	0.930	0.233
07:15-07:30	0.25	Inner	1.400	0.350	6.100	1.525
		Middle	0.024	0.006	0.600	0.150
		Outer	0.009	0.002	0.270	0.068
07:30-07:45	0.25	Inner	0.350	0.088	1.600	0.400
		Middle	0.006	0.002	0.150	0.038
		Outer	0.002	0.001	0.068	0.017
07:45-08:00	0.25	Inner	0.130	0.033	0.610	0.153
		Middle	0.002	0.001	0.060	0.015
		Outer	0.001	0.000	0.026	0.007
TOTALS		**Inner**		**14.891**		**61.510**
		Middle		**0.252**		**6.046**
		Outer		**0.090**		**2.683**

Section 8.6
Environmental Information

Onsite Radiation Data

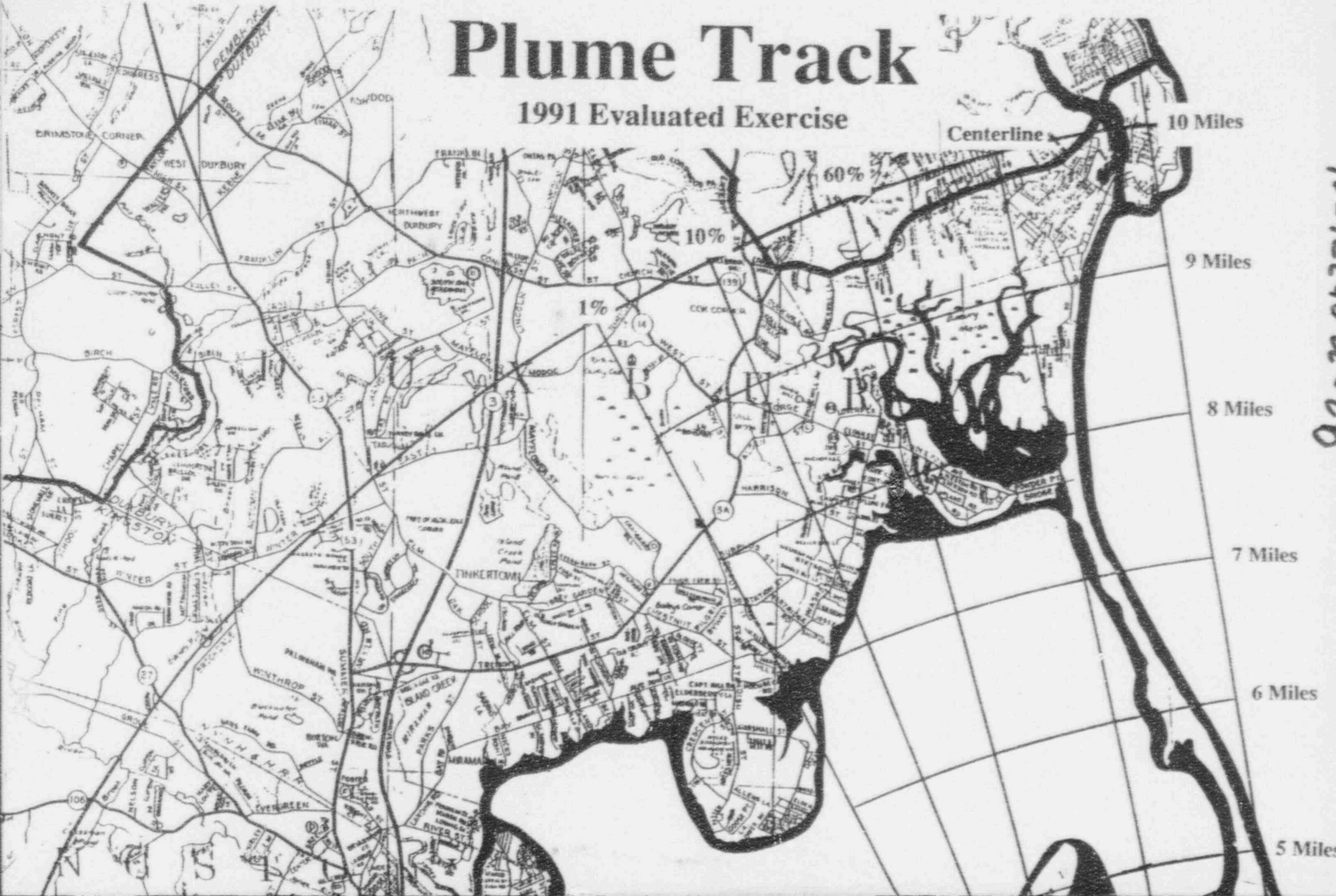
Table 8.6-1



Rad Levels (mR/hr)		
Time	Area A	Area B
03:30	BKGD	9
03:45	BKGD	4
04:00	BKGD	2
04:15	BKGD	1
04:30	BKGD	1
04:45	BKGD	1
05:00	BKGD	BKGD
05:15	BKGD	BKGD
05:30	BKGD	BKGD
05:45	BKGD	BKGD
06:00	BKGD	63
06:15	230	1.9E+7
06:30	20000	2.6E+7
06:45	18000	2.4E+7
07:00	5000	7.4E+6
07:15	1400	2.3E+6
07:30	350	6.3E+5
07:45	130	2.4E+5
08:00	8	1.5E+4
End	BKGD	51

Plume Track

1991 Evaluated Exercise



9202060271-01

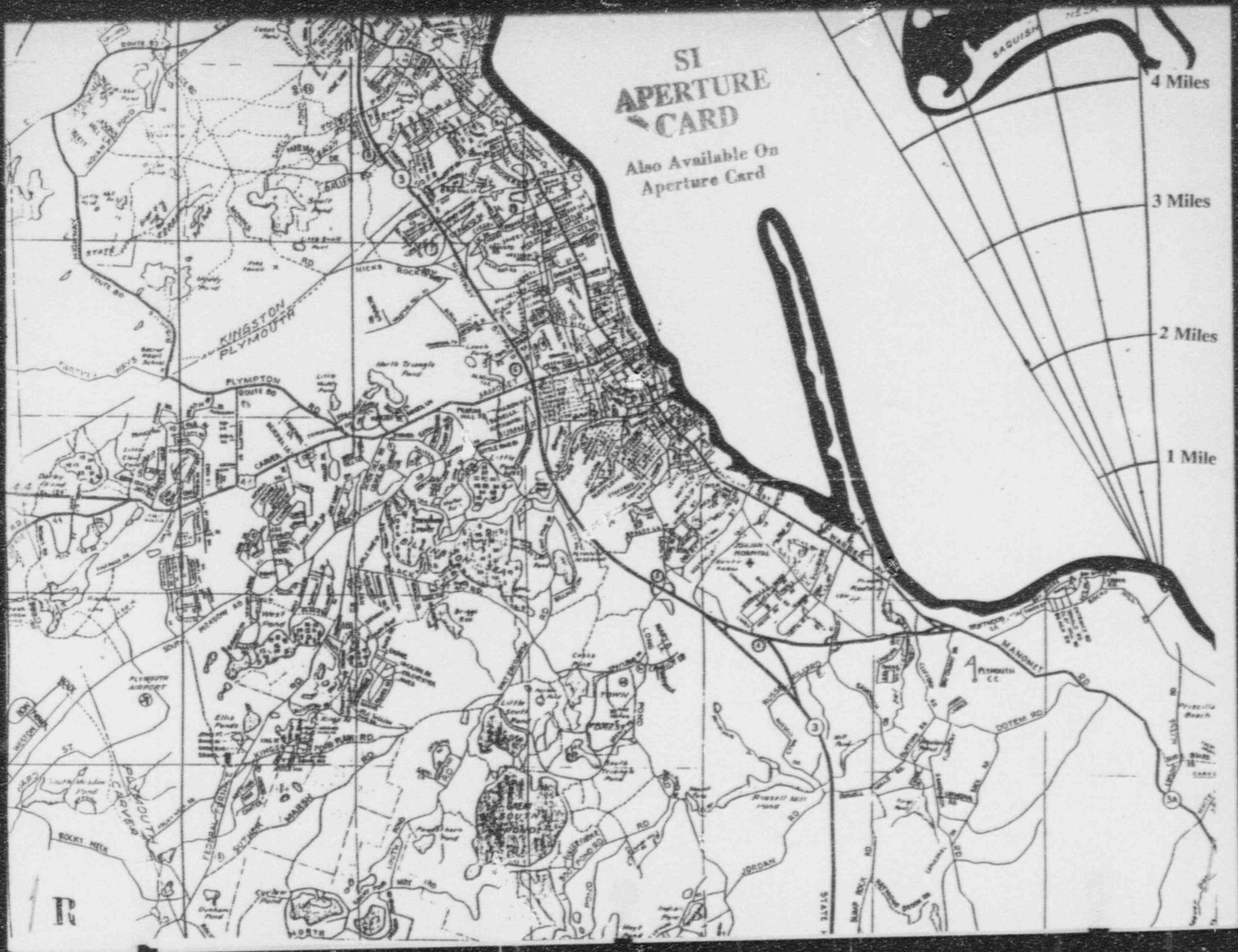

SI
APERTURE
CARD
Also Available On
Aperture Card
4 Miles
3 Miles
2 Miles
1 Mile
KINGSTON
PLYMOUTH
PLYMPTON
ROUTE 80
ROUTE 3
SAQUISH NECK
MANOMET
PLYMOUTH AIRPORT
ROCKY NECK
JORDAN
STATE

Table 6-3.1

Release Rate Times

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	06:10	06:20	06:30	06:40	06:50	07:00	07:10	07:20	07:30	07:40	07:50	08:00
1.0 miles	06:10	06:20	06:30	06:40	06:50	07:00	07:10	07:20	07:30	07:40	07:50	08:00
1.5 miles		06:10	06:20	06:30	06:40	06:50	07:00	07:20	07:30	07:40	07:50	08:00
2.0 miles		06:10	06:20	06:30	06:40	06:50	07:00	07:10	07:20	07:30	07:40	07:50
2.5 miles			06:10	06:20	06:30	06:40	07:00	07:10	07:20	07:30	07:40	07:50
3.0 miles			06:10	06:20	06:30	06:40	06:50	07:00	07:10	07:20	07:30	07:40
3.5 miles				06:10	06:20	06:30	06:50	07:00	07:10	07:20	07:30	07:40
4.0 miles				06:10	06:20	06:30	06:40	06:50	07:00	07:20	07:30	07:30
4.5 miles					06:10	06:20	06:40	06:50	07:00	07:10	07:20	07:30
5.0 miles					06:10	06:20	06:30	06:40	06:50	07:10	07:20	07:30
5.5 miles						06:10	06:30	06:40	06:50	07:00	07:10	07:20
6.0 miles						06:10	06:20	06:30	06:40	07:00	07:10	07:20
6.5 miles							06:10	06:30	06:40	06:50	07:00	07:20
7.0 miles							06:10	06:20	06:30	06:50	07:00	07:10
7.5 miles								06:20	06:30	06:40	06:50	07:10
8.0 miles								06:10	06:20	06:40	06:50	07:00
8.5 miles									06:20	06:30	06:40	07:00
9.0 miles									06:10	06:30	06:40	06:50
9.5 miles									06:10	06:20	06:30	06:50
10.0 miles										06:20	06:30	06:40

Table 8.6-3.2

Closed Window Whole Body Dose Rates (mR/hr)

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	BKGD	7900.0	7800.0	7300.0	4500.0	1900.0	810.0	340.0	140.0	38.0	11.0	3.0
1.0 miles	BKGD	4300.0	4200.0	4000.0	2500.0	1000.0	450.0	180.0	75.0	21.0	5.8	1.6
1.5 miles		BKGD	2300.0	2200.0	2100.0	1300.0	550.0	230.0	90.0	44.0	11.0	2.6
2.0 miles		BKGD	330.0	330.0	310.0	190.0	82.0	35.0	15.0	9.5	1.6	0.5
2.5 miles			BKGD	290.0	290.0	280.0	170.0	71.0	21.0	5.4	1.4	0.4
3.0 miles			BKGD	260.0	260.0	240.0	150.0	63.0	27.0	12.0	4.7	1.2
3.5 miles				BKGD	220.0	220.0	210.0	120.0	23.0	9.9	4.1	1.0
4.0 miles				BKGD	180.0	180.0	170.0	110.0	45.0	19.0	8.2	3.4
4.5 miles					BKGD	150.0	150.0	86.0	36.0	16.0	6.7	2.8
5.0 miles					BKGD	110.0	110.0	100.0	65.0	27.0	5.1	2.1
5.5 miles						BKGD	100.0	97.0	61.0	26.0	11.0	4.7
6.0 miles						BKGD	97.0	98.0	88.0	57.0	11.0	4.4
6.5 miles							BKGD	91.0	84.0	53.0	22.0	9.6
7.0 miles							BKGD	83.0	83.0	49.0	21.0	9.0
7.5 miles								77.0	77.0	71.0	45.0	14.0
8.0 miles								BKGD	70.0	65.0	41.0	18.0
8.5 miles									64.0	64.0	59.0	16.0
9.0 miles									BKGD	58.0	53.0	33.0
9.5 miles									BKGD	51.0	51.0	29.0
10.0 miles										46.0	45.0	40.0

Tab[illegible]8.6-3.3

Open Window Whole Body Dose Rates (mR/h)

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	BKGD	18170.0	17940.0	16790.0	10350.0	4370.0	1863.0	782.0	322.0	87.4	25.3	6.9
1.0 miles	BKGD	9890.0	9660.0	9200.0	5750.0	2300.0	1035.0	414.0	172.5	48.3	13.3	3.7
1.5 miles		BKGD	5290.0	5060.0	4830.0	2990.0	1265.0	529.0	207.0	101.2	25.3	6.0
2.0 miles		BKGD	759.0	759.0	713.0	437.0	188.6	80.5	34.5	21.9	3.7	1.0
2.5 miles			BKGD	667.0	667.0	644.0	391.0	163.3	48.3	12.4	3.2	0.9
3.0 miles			BKGD	598.0	598.0	552.0	345.0	144.9	62.1	27.6	10.8	2.8
3.5 miles				BKGD	506.0	506.0	483.0	276.0	52.9	22.8	9.4	2.3
4.0 miles				BKGD	414.0	414.0	391.0	253.0	103.5	43.7	18.9	7.8
4.5 miles					BKGD	345.0	345.0	197.8	82.8	36.8	15.4	6.4
5.0 miles					BKGD	253.0	253.0	230.0	149.5	62.1	11.7	4.8
5.5 miles						BKGD	230.0	223.1	140.3	59.8	25.3	10.8
6.0 miles						BKGD	223.1	225.4	202.4	131.1	25.3	10.1
6.5 miles							BKGD	209.3	193.2	121.9	50.6	22.1
7.0 miles							BKGD	190.9	190.9	112.7	48.3	20.7
7.5 miles								177.1	177.1	163.3	103.5	32.2
8.0 miles								BKGD	161.0	149.5	94.3	41.4
8.5 miles									147.2	147.2	135.7	36.8
9.0 miles									BKGD	133.4	121.9	75.9
9.5 miles									BKGD	117.3	117.3	66.7
10.0 miles										105.8	103.5	92.0

Table 8.6-3.4

Child Thyroid Dose Rates (mRem/hr)

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	1	100000	100000	97000	61000	26000	11000	4700	2000	550	160	46
1.0 miles	BKGD	58000	57000	55000	34000	15000	6400	2700	1100	310	91	26
1.5 miles		BKGD	32000	32000	31000	20000	8200	3500	1400	680	170	43
2.0 miles		BKGD	8000	7800	7500	4800	2100	870	360	200	42	12
2.5 miles			BKGD	7100	7000	6800	4300	1800	540	140	38	11
3.0 miles			BKGD	6400	6300	6100	3900	1600	690	290	120	33
3.5 miles				BKGD	5500	5500	5300	3300	610	260	110	29
4.0 miles				BKGD	4800	4800	4600	2900	1200	530	220	93
4.5 miles					BKGD	4000	4100	2500	1000	450	190	80
5.0 miles					BKGD	3300	3400	3200	2000	850	150	66
5.5 miles						BKGD	3100	3000	1900	810	350	140
6.0 miles						BKGD	3000	3000	2800	1800	330	140
6.5 miles							BKGD	2900	2700	1700	730	310
7.0 miles							BKGD	2600	2700	1600	690	290
7.5 miles								2500	2500	2400	1500	460
8.0 miles								BKGD	2300	2200	1400	610
8.5 miles									2200	2200	2000	570
9.0 miles									BKGD	2100	1900	1200
9.5 miles									BKGD	1900	1900	1100
10.0 miles										1700	1700	1600

Table 8.6-3.5

Adult Thyroid Dose Rates (mRem/hr)

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	1	71633	71633	69484	43696	18625	7880	3367	1433	394	115	33
1.0 miles	BKGD	41547	40831	39398	24355	10745	4585	1934	788	222	65	19
1.5 miles		BKGD	22923	22923	22206	14327	5874	2507	1003	487	122	31
2.0 miles		BKGD	5731	5587	5372	3438	1504	623	258	143	30	9
2.5 miles			BKGD	5086	5014	4871	3080	1289	387	100	27	8
3.0 miles			BKGD	4585	4513	4370	2794	1146	494	208	86	24
3.5 miles				BKGD	3940	3940	3797	2364	437	186	79	21
4.0 miles				BKGD	3438	3438	3295	2077	860	380	158	67
4.5 miles					BKGD	2865	2937	1791	716	322	136	57
5.0 miles					BKGD	2364	2436	2292	1433	609	107	47
5.5 miles						BKGD	2221	2149	1361	580	251	100
6.0 miles						BKGD	2149	2149	2006	1289	236	100
6.5 miles							BKGD	2077	1934	1218	523	222
7.0 miles							BKGD	1862	1934	1146	494	208
7.5 miles								1791	1791	1719	1074	330
8.0 miles								BKGD	1648	1576	1003	437
8.5 miles									1576	1576	1433	408
9.0 miles									BKGD	1504	1361	860
9.5 miles									BKGD	1361	1361	788
10.0 miles										1218	1218	1146

Silver Zeolite Cartridge (CPM on SAM-II)

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	9	913539	913539	886133	557259	237520	100489	42936	18271	5024	1462	420
1.0 miles	BKGD	529852	520717	502446	310603	137031	58466	24666	10049	2832	831	238
1.5 miles		BKGD	292332	292332	283197	182708	74910	31974	12790	6212	1553	393
2.0 miles		BKGD	73083	71256 .	68515	43850	19184	7948	3289	1827	384	110
2.5 miles			BKGD	64861	63948	62121	39282	16444	4933	1279	347	100
3.0 miles			BKGD	58466	57553	55726	35628	14617	6303	2649	1096	301
3.5 miles				BKGD	50245	50245	48418	30147	5573	2375	1005	265
4.0 miles				BKGD	43850	43850	42023	26493	10962	4842	2010	850
4.5 miles					BKGD	36542	37455	22838	9135	4111	1736	731
5.0 miles					BKGD	30147	31060	29233	18271	7765	1370	603
5.5 miles						BKGD	28320	27406	17357	7400	3197	1279
6.0 miles						BKGD	27406	27406	25579	16444	3015	1279
6.5 miles							BKGD	26493	24666	15530	6669	2832
7.0 miles							BKGD	23752	24666	14617	6303	2649
7.5 miles								22838	22838	21925	13703	4202
8.0 miles								BKGD	21011	20098	12790	5573
8.5 miles									20098	20098	18271	5207
9.0 miles									BKGD	19184	17357	10962
9.5 miles									BKGD	17357	17357	10049
10.0 miles										15530	15530	14617

Airborne I-131 (μCi/cc)

Downwind Distance	Scenario Time											
	06:20	06:30	06:40	06:50	07:00	07:10	7:20	7:30	7:40	7:50	8:00	END
S.B.	4.84E-10	4.84E-05	4.84E-05	4.70E-05	2.95E-05	1.26E-05	5.33E-06	2.28E-06	9.68E-07	2.66E-07	7.75E-08	2.23E-08
1.0 miles	BKGD	2.81E-05	2.76E-05	2.66E-05	1.65E-05	7.26E-06	3.10E-06	1.31E-06	5.33E-07	1.50E-07	4.41E-08	1.26E-08
1.5 miles		BKGD	1.55E-05	1.55E-05	1.50E-05	9.68E-06	3.97E-06	1.69E-06	6.78E-07	3.29E-07	8.23E-08	2.08E-08
2.0 miles		BKGD	3.87E-06	3.78E-06	3.63E-06	2.32E-06	1.02E-06	4.21E-07	1.74E-07	9.68E-08	2.03E-08	5.81E-09
2.5 miles			BKGD	3.44E-06	3.39E-06	3.29E-06	2.08E-06	8.72E-97	2.61E-07	6.78E-08	1.84E-08	5.33E-09
3.0 miles			BKGD	3.10E-06	3.05E-06	2.95E-06	1.89E-06	7.75E-07	3.34E-07	1.40E-07	5.81E-08	1.60E-08
3.5 miles				BKGD	2.66E-06	2.66E-06	2.57E-06	1.60E-06	2.95E-07	1.26E-07	5.33E-08	1.40E-08
4.0 miles				BKGD	2.32E-06	2.32E-06	2.23E-06	1.40E-06	5.81E-07	2.57E-07	1.07E-07	4.50E-08
4.5 miles					BKGD	1.94E-06	1.99E-06	1.21E-06	4.84E-07	2.18E-07	9.20E-08	3.87E-08
5.0 miles					BKGD	1.60E-06	1.65E-06	1.55E-06	9.68E-07	4.12E-07	7.26E-08	3.20E-08
5.5 miles						BKGD	1.50E-06	1.45E-06	9.20E-07	3.92E-07	1.69E-07	6.78E-08
6.0 miles						BKGD	1.45E-06	1.45E-06	1.36E-06	8.72E-07	1.60E-07	6.78E-08
6.5 miles							BKGD	1.40E-06	1.31E-06	8.23E-07	3.53E-07	1.50E-07
7.0 miles							BKGD	1.26E-06	1.31E-06	7.75E-07	3.34E-07	1.40E-07
7.5 miles								1.21E-06	1.21E-06	1.16E-06	7.26E-07	2.23E-07
8.0 miles								BKGD	1.11E-06	1.07E-06	6.78E-07	2.95E-07
8.5 miles									1.07E-06	1.07E-06	9.68E-07	2.76E-07
9.0 miles									BKGD	1.02E-06	9.20E-07	5.81E-07
9.5 miles									BKGD	9.20E-07	9.20E-07	5.33E-07
10.0 miles										8.23E-07	8.23E-07	7.75E-07

Table: 8.6-4.1

Field Sample Location Key

TIME	Downwind Distance (miles)																		
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
0610																				
0620	AAB	ABB																		
0630	BAC	BBC	ACC	ADC																
0640	CAD	CBD	BCD	BDC	AED	AFD														
0650	DAE	DBE	CCE	CDE	BEE	BFE	AGE	AHE												
0700	EAF	EBF	DCF	DDF	CEF	CFF	BGF	BHF	AIF	AJF										
0710	FAG	FBG	ECG	EDG	DEG	DFG	CGG	CHG	BIG	BJG	AKG	ALG								
0720	GAH	GBH	FCH	FDH	FEH	EFH	EGH	DHH	DIH	CJH	CKH	BLH	AMH	ANH						
0730	HAI	HBI	HCI	GDI	GEI	FFI	FGI	EHI	EII	DJI	DKI	CLI	CMI	BNI	BOI	API				
0740	IAJ	IBJ	ICJ	HDJ	HEJ	GFJ	GGJ	FHJ	FIJ	EJJ	EKJ	DLJ	DMJ	CNJ	COJ	BPJ	BQJ	ARJ	ASJ	
0750	JAK	JBK	JCK	IDK	IEK	HFK	HGK	HHK	GIK	GJK	FKK	FLK	EMK	ENK	DOK	DPK	CQK	CRK	BSK	BTK
0800	KAL	KBL	KCL	JDL	JEL	IFL	IGL	IHL	HIL	HJL	GKL	GLL	FML	FNL	EOL	EPL	DQL	CRL	CSL	CTL
0810	LAM	LBM	LCM	KDM	KEM	JFM	JGM	JHM	IIM	IJM	HKM	HLM	HMM	GNM	GOM	FPM	EQM	ERM	ESM	DTM

Table: 8.6-4.2

Marinelli Sample Isotopic Data

KEY	Isotope (μCi/cc) Kr-85m	Kr-85	Kr-87	Kr-88	Xe-133	Xe-135
AAB	1.26E-08	1.39E-09	2.43E-09	1.64E-08	2.48E-07	2.12E-08
ABB	5.28E-09	5.84E-10	1.02E-09	6.87E-09	1.04E-07	8.88E-09
BAC	3.32E-03	3.77E-04	6.02E-04	4.24E-03	6.70E-02	5.66E-03
BBC	1.39E-03	1.58E-04	2.52E-04	1.78E-03	2.81E-02	2.38E-03
ACC	2.31E-09	2.63E-10	4.19E-10	2.95E-09	4.66E-08	3.94E-09
ADC	1.35E-09	1.53E-10	2.44E-10	1.72E-09	2.72E-08	2.30E-09
CAD	4.01E-03	4.68E-04	6.81E-04	5.01E-03	8.30E-02	6.93E-03
CBD	1.68E-03	1.96E-04	2.86E-04	2.10E-03	3.48E-02	2.91E-03
BCD	6.66E-04	7.76E-05	1.13E-04	8.32E-04	1.38E-02	1.15E-03
BDD	3.88E-04	4.53E-05	6.59E-05	4.85E-04	8.03E-03	6.71E-04
AED	8.55E-10	9.97E-11	1.45E-10	1.07E-09	1.77E-08	1.48E-09
AFD	6.00E-10	6.99E-11	1.02E-10	7.49E-10	1.24E-08	1.04E-09
DAE	4.28E-03	5.11E-04	6.80E-04	5.23E-03	9.07E-02	7.48E-03
DBE	1.79E-03	2.15E-04	2.85E-04	2.19E-03	3.80E-02	3.14E-03
CCE	8.04E-04	9.82E-05	1.28E-04	9.84E-04	1.71E-02	1.41E-03
CDE	4.68E-04	5.61E-05	7.45E-05	5.73E-04	9.94E-03	8.21E-04
BEE	2.46E-04	2.95E-05	3.92E-05	3.01E-04	5.22E-03	4.31E-04
BFE	1.73E-04	2.07E-05	2.75E-05	2.11E-04	3.66E-03	3.02E-04
AGE	4.32E-10	5.16E-11	6.86E-11	5.28E-10	9.18E-09	7.56E-10
AHE	3.32E-10	3.97E-11	5.28E-11	4.06E-10	7.04E-09	5.81E-10
EAF	2.75E-03	3.38E-04	4.10E-04	3.30E-03	5.98E-02	4.88E-03
EBF	1.15E-03	1.42E-04	1.72E-04	1.38E-03	2.51E-02	2.05E-03
DCF	7.91E-04	9.71E-05	1.18E-04	9.48E-04	1.72E-02	1.40E-03
DDF	4.61E-04	5.66E-05	6.87E-05	5.53E-04	1.00E-02	8.18E-04
CEF	2.75E-04	3.37E-05	4.09E-05	3.29E-04	5.97E-03	4.87E-04
CFF	1.93E-04	2.36E-05	2.87E-05	2.31E-04	4.19E-03	3.41E-04
BGF	1.15E-04	1.41E-05	1.71E-05	1.38E-04	2.50E-03	2.04E-04
BHF	8.82E-05	1.08E-05	1.31E-05	1.06E-04	1.92E-03	1.56E-04
AIF	2.36E-10	2.90E-11	3.52E-11	2.83E-10	5.14E-09	4.19E-10
AJF	1.92E-10	2.35E-11	2.86E-11	2.30E-10	4.17E-09	3.40E-10
FAG	1.47E-03	1.85E-04	2.05E-04	1.72E-03	3.27E-02	2.64E-03
FBG	8.16E-04	7.76E-05	8.60E-05	7.23E-04	1.37E-02	1.11E-03
ECG	5.52E-04	6.95E-05	7.70E-05	6.47E-04	1.23E-02	9.91E-04
EDG	3.22E-04	4.05E-05	4.49E-05	3.77E-04	7.17E-03	5.78E-04
DEG	2.93E-04	3.69E-05	4.08E-05	3.43E-04	6.52E-03	5.26E-04
DFG	2.05E-04	2.58E-05	2.86E-05	2.41E-04	4.57E-03	3.69E-04
CGG	1.39E-04	1.75E-05	1.93E-05	1.63E-04	3.09E-03	2.49E-04
CHG	1.07E-04	1.34E-05	1.49E-05	1.25E-04	2.37E-03	1.91E-04
BIG	6.81E-05	8.58E-06	9.51E-06	7.99E-05	1.52E-03	1.22E-04

Table: 8.6-4.3

Marinelli Sample Isotopic Data

KEY	Isotope (μCi/cc) Kr-85m	Kr-85	Kr-87	Kr-88	Xe-133	Xe-135
BJG	5.53E-05	6.96E-06	7.71E-06	6.49E-05	1.23E-03	9.93E-05
AKG	1.55E-10	1.95E-11	2.16E-11	1.82E-10	3.45E-09	2.78E-10
ALG	1.30E-10	1.64E-11	1.82E-11	1.53E-10	2.90E-09	2.34E-10
GAH	6.53E-04	8.44E-05	8.53E-05	7.50E-04	1.49E-02	1.19E-03
GBH	2.74E-04	3.54E-05	3.58E-05	3.15E-04	6.26E-03	4.99E-04
FCH	2.73E-04	3.53E-05	3.57E-05	3.14E-04	6.25E-03	4.98E-04
FDH	1.59E-04	2.06E-05	2.08E-05	1.83E-04	3.64E-03	2.90E-04
FEH	1.04E-04	1.34E-05	1.36E-05	1.19E-04	2.37E-03	1.89E-04
EFH	1.33E-04	1.72E-05	1.74E-05	1.53E-04	3.03E-03	2.42E-04
EGH	9.82E-05	1.27E-05	1.28E-05	1.13E-04	2.24E-03	1.79E-04
DHH	1.05E-04	1.36E-05	1.38E-05	1.21E-04	2.41E-03	1.92E-04
DIH	8.36E-05	1.08E-05	1.09E-05	9.60E-05	1.91E-03	1.52E-04
CJH	6.20E-05	8.01E-06	8.10E-06	7.12E-05	1.42E-03	1.13E-04
CKH	5.13E-05	6.63E-06	6.70E-06	5.89E-05	1.17E-03	9.34E-05
BLH	3.48E-05	4.50E-06	4.55E-06	4.00E-05	7.95E-04	6.34E-05
AMH	1.00E-10	1.30E-11	1.31E-11	1.15E-10	2.29E-09	1.83E-10
ANH	8.66E-11	1.12E-11	1.13E-11	9.95E-11	1.98E-09	1.58E-10
HAI	3.07E-04	4.07E-05	3.76E-05	3.46E-04	7.19E-03	5.66E-04
HBI	1.29E-04	1.71E-05	1.58E-05	1.45E-04	3.02E-03	2.38E-04
HCI	6.32E-05	8.38E-06	7.74E-06	7.11E-05	1.48E-03	1.17E-04
GDI	7.12E-05	9.44E-06	8.72E-06	8.02E-05	1.67E-03	1.31E-04
GEI	4.64E-05	6.15E-06	5.68E-06	5.22E-05	1.09E-03	8.55E-05
FFI	6.62E-05	8.77E-06	8.11E-06	7.45E-05	1.55E-03	1.22E-04
FGI	4.89E-05	6.48E-06	5.99E-06	5.51E-05	1.15E-03	9.02E-05
EHI	6.86E-05	9.10E-06	8.41E-06	7.72E-05	1.61E-03	1.27E-04
EII	5.44E-05	7.21E-06	6.66E-06	6.12E-05	1.27E-03	1.00E-04
DJI	6.17E-05	8.18E-06	7.55E-06	6.94E-05	1.44E-03	1.14E-04
DKI	5.10E-05	6.77E-06	6.25E-06	5.74E-05	1.20E-03	9.41E-05
CLI	3.92E-05	5.20E-06	4.80E-06	4.42E-05	9.19E-04	7.24E-05
CMI	3.34E-05	4.43E-06	4.10E-06	3.76E-05	7.83E-04	6.17E-05
BNI	2.33E-05	3.09E-06	2.85E-06	2.62E-05	5.45E-04	4.29E-05
BOI	2.03E-05	2.69E-06	2.48E-06	2.28E-05	4.75E-04	3.74E-05
API	6.03E-11	8.00E-12	7.39E-12	6.79E-11	1.41E-09	1.11E-10
IAJ	1.53E-04	2.08E-05	1.75E-05	1.69E-04	3.67E-03	2.86E-04
IBJ	6.41E-05	8.73E-06	7.36E-06	7.07E-05	1.54E-03	1.20E-04
ICJ	3.15E-05	4.28E-06	3.61E-06	3.47E-05	7.55E-04	5.88E-05
HDJ	3.59E-05	4.88E-06	4.12E-06	3.96E-05	8.62E-04	6.71E-05
HEJ	2.34E-05	3.18E-06	2.68E-06	2.58E-05	5.61E-04	4.37E-05
GFJ	3.17E-05	4.31E-06	3.64E-06	3.49E-05	7.61E-04	5.92E-05

Table: 8.6-4.4

Marinelli Sample Isotopic Data

KEY	Isotope (μCi/cc)					
	Kr-85m	Kr-85	Kr-87	Kr-88	Xe-133	Xe-135
GGJ	2.34E-05	3.19E-06	2.69E-06	2.58E-05	5.62E-04	4.37E-05
FHJ	3.66E-05	4.98E-06	4.70E-06	4.04E-05	8.80E-04	6.85E-05
FIJ	2.90E-05	3.95E-06	3.33E-06	3.20E-05	6.97E-04	5.42E-05
EJJ	4.30E-05	5.85E-06	4.93E-06	4.74E-05	1.03E-03	8.03E-05
EKJ	3.56E-05	4.84E-06	4.08E-06	3.92E-05	8.54E-04	6.65E-05
DLJ	4.18E-05	5.69E-06	4.80E-06	4.61E-05	1.00E-03	7.82E-05
DMJ	3.57E-05	4.85E-06	4.09E-06	3.93E-05	8.56E-04	6.66E-05
CNJ	2.81E-05	3.82E-06	3.23E-06	3.10E-05	6.75E-04	5.25E-05
COJ	2.45E-05	3.33E-06	2.81E-06	2.70E-05	5.88E-04	4.58E-05
BPJ	1.74E-05	2.36E-06	1.99E-06	1.92E-05	4.17E-04	3.25E-05
BQJ	1.54E-05	2.09E-06	1.77E-06	1.70E-05	3.70E-04	2.88E-05
ARJ	4.64E-11	6.32E-12	5.33E-12	5.12E-11	1.12E-09	8.68E-11
ASJ	4.17E-11	5.87E-12	4.78E-12	4.59E-11	1.00E-09	7.79E-11
JAK	4.80E-05	6.89E-06	5.16E-06	5.18E-05	1.18E-03	9.08E-05
JBK	2.01E-05	2.81E-06	2.16E-06	2.17E-05	4.95E-04	3.81E-05
JCK	9.86E-06	1.38E-06	1.06E-06	1.07E-05	2.43E-04	1.87E-05
IDK	1.79E-05	2.49E-06	1.92E-06	1.93E-05	4.40E-04	3.38E-05
IEK	1.16E-05	1.62E-06	1.25E-06	1.26E-05	2.86E-04	2.20E-05
HFK	1.60E-05	2.23E-06	1.72E-06	1.72E-05	3.93E-04	3.02E-05
HGK	1.18E-05	1.65E-06	1.27E-06	1.27E-05	2.90E-04	2.23E-05
HHK	9.07E-06	1.27E-06	9.75E-07	9.79E-06	2.23E-04	1.72E-05
GIK	1.39E-05	1.94E-06	1.49E-06	1.50E-05	3.42E-04	2.63E-05
GJK	1.13E-05	1.57E-06	1.21E-06	1.22E-05	2.77E-04	2.13E-05
FKK	1.90E-05	2.65E-06	2.04E-06	2.05E-05	4.67E-04	3.59E-05
FLK	1.60E-05	2.23E-06	1.72E-06	1.72E-05	3.93E-04	3.02E-05
EMK	2.49E-05	3.47E-06	2.67E-06	2.68E-05	6.12E-04	4.71E-05
ENK	2.14E-05	2.99E-06	2.30E-06	2.31E-05	5.28E-04	4.06E-05
DOK	2.61E-05	3.65E-06	2.81E-06	2.82E-05	6.43E-04	4.94E-05
DPK	2.30E-05	3.20E-06	2.47E-06	2.48E-05	5.65E-04	4.35E-05
CQK	1.86E-05	2.59E-06	2.00E-06	2.01E-05	4.58E-04	3.52E-05
CRK	1.66E-05	2.31E-06	1.78E-06	1.79E-05	4.08E-04	3.14E-05
BSK	1.20E-05	1.68E-06	1.29E-06	1.30E-05	2.96E-04	2.27E-05
BTK	1.08E-05	1.51E-06	1.16E-06	1.17E-05	2.67E-04	2.05E-05
KAL	1.44E-05	2.06E-06	1.45E-06	1.52E-05	3.63E-04	2.76E-05
KBL	6.04E-06	8.65E-07	6.08E-07	6.38E-06	1.52E-04	1.18E-05
KCL	2.96E-06	4.24E-07	2.98E-07	3.13E-06	7.47E-05	5.68E-06
JDL	5.25E-06	7.53E-07	5.29E-07	5.56E-06	1.33E-04	1.01E-05
JEL	3.42E-06	4.90E-07	3.45E-07	3.62E-06	8.63E-05	6.56E-06
IFL	7.45E-06	1.07E-06	7.51E-07	7.88E-06	1.88E-04	1.43E-05

Table: 8.6-4.8

Marinelli Sample Isotopic Data

KEY	Isotope (μCi/cc) Kr-85m	Kr-85	Kr-87	Kr-88	Xe-133	Xe-135
IGL	5.51E-06	7.89E-07	5.55E-07	5.82E-06	1.39E-04	1.06E-05
IHL	4.23E-06	8.06E-07	4.26E-07	4.48E-06	1.07E-04	8.12E-06
HIL	6.56E-06	9.40E-07	6.61E-07	6.94E-06	1.66E-04	1.26E-05
HJL	5.33E-06	7.63E-07	5.36E-07	5.63E-06	1.34E-04	1.02E-05
GKL	8.52E-06	1.22E-06	8.58E-07	9.01E-06	2.15E-04	1.63E-05
GLL	7.17E-06	1.03E-06	7.22E-07	7.58E-06	1.81E-04	1.37E-05
FML	1.24E-05	1.78E-06	1.25E-06	1.32E-05	3.14E-04	2.39E-05
FNL	1.07E-05	1.54E-06	1.08E-06	1.13E-05	2.71E-04	2.06E-05
EOL	1.71E-05	2.44E-06	1.72E-06	1.80E-05	4.31E-04	3.27E-05
EPL	1.50E-05	2.15E-06	1.51E-06	1.59E-05	3.79E-04	2.88E-05
DQL	1.86E-05	2.66E-06	1.87E-06	1.96E-05	4.69E-04	3.56E-05
DRL	1.66E-05	2.37E-06	1.67E-06	1.75E-05	4.18E-04	3.18E-05
CSL	1.36E-05	1.95E-06	1.37E-06	1.44E-05	3.43E-04	2.61E-05
CTL	1.23E-05	1.76E-06	1.24E-06	1.30E-05	3.09E-04	2.35E-05
LAM	4.90E-06	7.21E-07	4.83E-07	5.08E-06	1.27E-04	9.53E-06
LBM	2.06E-06	3.02E-07	1.94E-07	2.13E-06	5.32E-05	4.00E-06
LCM	1.01E-06	1.48E-07	9.52E-08	1.05E-06	2.61E-05	1.98E-06
KDM	1.68E-06	2.47E-07	1.59E-07	1.74E-06	4.35E-05	3.27E-06
KEM	1.09E-06	1.61E-07	1.03E-07	1.13E-06	2.83E-05	2.13E-06
JFM	2.34E-06	3.44E-07	2.21E-07	2.42E-06	6.05E-05	4.54E-06
JGM	1.73E-06	2.54E-07	1.63E-07	1.79E-06	4.47E-05	3.36E-06
JHM	1.33E-06	1.95E-07	1.25E-07	1.37E-06	3.43E-05	2.58E-06
IIM	3.27E-06	4.80E-07	3.08E-07	3.38E-06	8.45E-05	6.35E-06
IJM	2.65E-06	3.90E-07	2.50E-07	2.75E-06	6.86E-05	5.15E-06
HKM	4.29E-06	6.31E-07	4.05E-07	4.45E-06	1.11E-04	8.35E-06
HLM	3.61E-06	5.31E-07	3.41E-07	3.74E-06	9.34E-05	7.02E-06
HMM	3.08E-06	4.53E-07	2.91E-07	3.19E-06	7.97E-05	5.98E-06
GNM	5.13E-06	7.55E-07	4.85E-07	5.32E-06	1.33E-04	9.98E-06
GOM	4.47E-06	6.58E-07	4.22E-07	4.63E-06	1.16E-04	8.70E-06
FPM	8.01E-06	1.18E-06	7.[illegible]E-07	8.29E-06	2.07E-04	1.56E-05
FQM	7.09E-06	1.04E-06	6.69E-07	7.35E-06	1.83E-04	1.38E-05
ERM	1.15E-05	1.70E-06	1.09E-06	1.20E-05	2.99E-04	2.24E-05
ESM	1.04E-05	1.52E-06	9.78E-07	1.07E-05	2.68E-04	2.01E-05
DTM	1.31E-05	1.92E-06	1.23E-06	1.35E-05	3.38E-04	2.54E-05

Table: 8.6-4.6

Airborne Iodine Sample Data

KEY	Filter Paper (uCi/cc)				Cartridge (uCi/cc)			
	I-131	I-132	I-133	I-135	I-131	I-132	I-133	I-135
AAB	1.33E-10	3.22E-11	2.77E-11	1.28E-10	5.32E-10	1.29E-10	1.11E-10	5.53E-10
ABE	5.59E-11	1.35E-11	1.16E-11	5.80E-11	2.23E-10	5.40E-11	4.64E-11	2.72E-10
BAC	4.58E-05	1.04E-05	8.86E-06	4.68E-05	1.88E-04	4.15E-05	3.55E-05	1.84E-04
BBC	1.89E-05	4.35E-06	3.72E-06	1.97E-05	7.85E-05	1.74E-05	1.49E-05	7.72E-05
ACC	2.51E-11	5.77E-12	4.93E-12	2.56E-11	1.00E-10	2.31E-11	1.97E-11	1.02E-10
ADC	1.46E-11	3.36E-12	2.86E-12	1.49E-11	5.84E-11	1.35E-11	1.15E-11	5.97E-11
CAD	6.98E-05	1.53E-05	1.30E-05	7.01E-05	2.79E-04	6.12E-05	5.20E-05	2.90E-04
CBD	2.93E-05	6.41E-06	5.46E-06	2.94E-05	1.17E-04	2.57E-05	2.18E-05	1.19E-04
BCD	9.25E-06	2.03E-06	1.73E-06	9.30E-06	3.70E-05	8.11E-06	6.90E-06	3.72E-05
BDD	5.39E-06	1.18E-06	1.01E-06	5.42E-06	2.14E-05	4.72E-06	4.02E-06	2.17E-05
AED	9.50E-12	2.08E-12	1.77E-12	9.55E-12	3.80E-11	8.37E-12	7.09E-12	3.82E-11
AFD	6.65E-12	1.46E-12	1.24E-12	6.70E-12	2.67E-11	5.84E-12	4.97E-12	2.68E-11
DAE	9.59E-05	2.00E-05	1.69E-05	9.48E-05	3.84E-04	8.00E-05	6.77E-05	3.79E-04
DBE	4.02E-05	8.39E-06	7.10E-06	3.98E-05	1.61E-04	3.36E-05	2.84E	1.59E-04
CCE	1.43E-05	2.99E-06	2.53E-06	1.42E-05	5.74E-05	1.20E-05	[illegible]	5.69E-05
CDE	8.26E-06	1.74E-06	1.48E-06	8.26E-06	3.34E-05	6.97E-06	5.90E-06	3.31E-05
BEE	3.51E-06	7.32E-07	6.19E-07	3.47E-06	1.40E-05	2.93E-06	2.48E-06	1.39E-05
BFE	2.46E-06	5.13E-07	4.34E-07	2.43E-06	9.84E-06	2.05E-06	1.74E-06	9.72E-06
AGE	4.92E-12	1.03E-12	8.68E-13	4.86E-12	1.97E-11	4.10E-12	3.47E-12	1.95E-11
AHE	3.78E-12	7.89E-13	6.67E-13	3.74E-12	1.51E-11	3.15E-12	2.67E-12	1.50E-11
EAF	7.92E-05	1.57E-05	1.32E-05	7.70E-05	3.17E-04	6.29E 05	5.29E-05	3.08E-04
EBF	3.32E-05	6.59E-06	5.55E-06	3.23E-05	1.33E-04	2.64E-05	2.22E-05	1.29E-04
DCF	1.82E-05	3.61E-06	3.04E-06	1.77E-05	7.28E-05	1.44E-05	1.22E-05	7.07E-05
DDF	1.06E-05	2.11E-06	1.77E-06	1.03E-05	4.24E-05	8.43E-06	7.09E-06	4.12E-05
CEF	5.02E-06	9.97E-07	8.39E-07	4.88E-06	2.01E-05	3.99E-06	3.36E-06	1.95E-05
CFF	3.52E-06	6.99E-07	5.88E-07	3.42E-06	1.41E-05	2.79E-06	2.35E-06	1.37E-05
BGF	1.68E-06	3.33E-07	2.80E-07	1.63E-06	6.71E-06	1.33E-06	1.12E-06	6.52E-06
BHF	1.29E-06	2.56E-07	2.15E-07	1.25E-06	5.16E-06	1.02E-06	8.61E-07	5.01E-06
AIF	2.76E-12	5.48E-13	4.62E-13	2.69E-12	1.11E-11	2.19E-12	1.85E-12	1.07E-11
AJF	2.24E-12	4.45E-13	3.75E-13	2.18E-12	8.97E-12	1.78E-12	1.50E-12	8.72E-12
FAG	5.44E-05	1.07E-05	8.61E-06	5.20E-05	2.18E-04	4.11E-05	3.44E-05	2.08E-04
FBG	2.28E-05	4.31E-06	3.61E-06	2.18E-05	9.13E-05	1.72E-05	1.44E-0	8.73E-05
ECG	1.63E-05	3.08E-06	2.57E-06	1.56E-05	6.51E-05	1.23E-05	1.03E-05	6.22E-05
CDG	9.49E-06	1.79E-06	1.50E-06	9.07E-06	3.80E-05	7.17E-06	6.00E-06	3.62E-05
DEG	6.90E-06	1.30E-06	1.09E-06	6.60E-06	2.76E-05	5.21E-06	4.36E-06	2.64E-05
DFG	4.84E-06	9.14E-07	7.65E-07	4.63E-06	1.94E-05	3.66E-06	3.06E-06	1.85E-05
CGG	2.60E-06	4.91E-07	4.11E-07	2.48E-06	1.04E-05	1.96E-06	1.64E-06	9.94E-06
CHG	2.00E-06	3.77E-07	3.16E-07	1.91E-06	7.99E-06	1.51E-06	1.26E-06	7.64E-06
BIG	1.02E-06	1.93E-07	1.61E-07	9.75E-07	4.08E-06	7.71E-07	6.46E-07	3.90E-06

Table: 8.6-4.7

Airborne Iodine Sample Data

KEY	Filter Paper (µCi/cc)				Cartridge (µCi/cc)			
	I-131	I-132	I-133	I-135	I-131	I-132	I-133	I-135
BJB	8.20E-07	1.16E-07	1.31E-07	7.91E-07	3.31E-06	6.2aE-07	5.24E-07	3.17E-06
AKB	1.85E-12	3.90E-13	[illegible]	1.77E-12	7.42E-12	1.40E-12	1.17E-12	7.09E-12
ALB	1.56E-12	2.95E-13		1.49E-12	6.24E-12	1.18E-12	9.86E-13	5.96E-12
GAM	3.22E-05	5.79E-06	4.84E-06	3.03E-05	1.29E-04	2.72E-05	1.93E-05	1.21E-04
GBM	1.35E-05	2.47E-06	2.02E-06	1.27E-05	5.41E-05	9.72E-06	8.09E-06	5.08E-05
FCM	1.04E-05	1.87E-06	1.56E-06	9.76E-06	4.16E-05	7.47E-06	6.22E-06	3.91E-05
FDM	6.0aE-06	1.09E-06	9.07E-07	5.69E-06	2.42E-05	4.35E-06	3.63E-06	2.28E-05
FEM	3.94E-06	7.09E-07	5.90E-07	3.71E-06	1.58E-05	2.84E-06	2.3aE-06	1.48E-05
EFM	4.02E-06	7.23E-07	6.02E-07	3.78E-06	1.61E-05	2.89E-06	2.41E-06	1.51E-05
EGM	2.97E-06	5.34E-07	4.45E-07	2.79E-06	1.19E-05	2.14E-06	1.78E-06	1.12E-05
DHM	2.35E-06	4.58E-07	3.82E-07	2.40E-06	1.02E-05	1.83E-06	1.53E-06	9.59E-06
DIM	2.02E-06	3.63E-07	3.02E-07	1.90E-06	8.08E-06	1.45E-06	1.21E-06	7.59E-06
CJM	1.19E-06	2.14E-07	1.78E-07	1.12E-06	4.77E-06	8.57E-07	7.14E-07	4.48E-06
CKM	9.6aE-07	1.7aE-07	1.43E-07	9.27E-07	3.95E-06	7.09E-07	5.90E-07	3.71E-06
BLM	5.35E-07	9.61E-08	8.00E-08	5.03E-07	2.14E-06	3.84E-07	3.20E-07	2.01E-06
AMM	1.27E-12	2.22E-13	1.85E-13	1.16E-12	4.94E-12	8.87E-13	7.39E-13	4.64E-12
ANM	1.86E-12	1.91E-13	1.59E-13	1.00E-12	4.26E-12	7.65E-13	6.37E-13	4.00E-12
HAI	1.94E-05	3.32E-06	2.75E-06	1.79E-05	7.77E-05	1.33E-05	1.10E-05	7.19E-05
HBI	8.15E-06	1.39E-06	1.15E-06	7.53E-06	3.26E-05	5.57E-06	4.62E-06	3.01E-05
HCI	4.00E-06	6.83E-07	5.66E-07	3.69E-06	1.60E-05	2.73E-06	2.26E-06	1.48E-05
GDI	3.61E-06	6.17E-07	5.11E-07	3.33E-06	1.44E-05	2.47E-06	2.04E-06	1.33E-05
GEI	2.35E-06	4.01E-07	3.33E-07	2.17E-06	9.39E-06	1.61E-06	1.33E-06	8.68E-06
FFI	2.58E-06	4.41E-07	3.65E-07	2.38E-06	1.03E-05	1.76E-06	1.46E-06	9.52E-06
FGI	1.91E-06	3.26E-07	2.70E-07	1.76E-06	7.63E-06	1.30E-06	1.08E-06	7.04E-06
EHI	2.13E-06	3.64E-07	3.02E-07	1.97E-06	8.52E-06	1.46E-06	1.21E-06	7.87E-06
EII	1.69E-06	2.89E-07	2.39E-07	1.56E-06	6.75E-06	1.15E-06	9.56E-07	6.24E-06
DJI	1.53E-06	2.61E-07	2.17E-07	1.41E-06	6.12E-06	1.05E-06	8.66E-07	5.65E-06
DKI	1.27E-06	2.16E-07	1.79E-07	1.17E-06	5.06E-06	8.65E-07	7.17E-07	4.68E-06
CLI	7.74E-07	1.32E-07	1.10E-07	7.15E-07	3.09E-06	5.29E-07	4.38E-07	2.86E-06
CMI	6.60E-07	1.13E-07	9.34E-08	6.09E-07	2.64E-06	4.51E-07	3.74E-07	2.44E-06
BNI	3.67E-07	6.27E-08	5.20E-08	3.39E-07	1.47E-06	2.51E-07	2.08E-07	1.36E-06
BOI	3.20E-07	5.47E-08	4.53E-08	2.95E-07	1.28E-06	2.19E-07	1.81E-07	1.18E-06
APJ	7.68E-13	1.30E-13	1.08E-13	7.02E-13	3.04E-12	5.20E-13	4.31E-13	2.81E-12
IAJ	1.20E-05	1.96E-06	1.61E-06	1.09E-05	4.81E-05	7.82E-06	6.44E-06	4.37E-05
IBJ	5.04E-06	8.20E-07	6.76E-07	4.58E-06	2.02E-05	3.28E-06	2.70E-06	1.83E-05
ICJ	2.47E-06	4.02E-07	3.31E-07	2.25E-06	9.89E-06	1.61E-06	1.33E-06	8.98E-06
HDJ	2.33E-06	3.79E-07	3.12E-07	2.11E-06	9.31E-06	1.52E-06	1.25E-06	8.46E-06
HEJ	1.52E-06	2.47E-07	2.03E-07	1.38E-06	6.06E-06	9.87E-07	8.13E-07	5.51E-06
GFJ	1.65E-06	2.68E-07	2.21E-07	1.49E-06	6.58E-06	1.07E-06	8.82E-07	5.98E-06

Table: 8.6-4.8

Airborne Iodine Sample Data

KEY	Filter Paper (µCi/cc)				Cartridge (µCi/cc)			
	I-131	I-132	I-133	I-135	I-131	I-132	I-133	I-135
BBJ	1.22E-06	1.98E-07	1.63E-07	1.10E-06	4.86E-06	7.91E-07	6.52E-07	4.42E-06
FHJ	1.46E-06	2.38E-07	1.96E-07	1.33E-06	5.66E-06	9.03E-07	7.85E-07	5.32E-06
FLJ	1.16E-06	1.89E-07	1.56E-07	1.05E-06	4.64E-06	7.55E-07	6.22E-07	4.21E-06
BJJ	1.37E-06	2.23E-07	1.84E-07	1.24E-06	5.47E-06	8.91E-07	7.34E-07	4.97E-06
EKJ	1.13E-06	1.84E-07	1.52E-07	1.03E-06	4.53E-06	7.37E-07	6.07E-07	4.11E-06
DLJ	1.06E-06	1.73E-07	1.43E-07	9.66E-07	4.25E-06	6.92E-07	5.70E-07	7.86E-06
DMJ	9.07E-07	1.48E-07	1.22E-07	8.24E-07	3.63E-06	5.90E-07	4.86E-07	3.29E-06
CNJ	5.69E-07	9.25E-08	7.62E-08	5.17E-07	2.27E-06	3.70E-07	3.05E-07	2.07E-06
CDJ	4.95E-07	8.06E-08	6.64E-08	4.50E-07	1.98E-06	3.22E-07	2.66E-07	1.80E-06
BHJ	2.81E-07	4.57E-08	3.76E-08	2.55E-07	1.12E-06	1.83E-07	1.51E-07	1.02E-06
BGJ	2.49E-07	4.05E-08	3.33E-08	2.26E-07	9.95E-07	1.62E-07	1.33E-07	9.04E-07
ARJ	6.80E-13	9.77E-14	8.05E-14	5.45E-13	2.48E-12	3.91E-13	2E-13	2.13E-12
ASJ	5.39E-13	8.77E-14	7.22E-14	4.89E-13	2.15E-12	3.51E-13	2.89E-13	1.94E-12
JAK	5.12E-06	7.97E-07	6.50E-07	4.56E-06	2.05E-05	3.17E-06	2.60E-06	1.87E-05
JBK	2.15E-06	3.03E-07	2.77E-07	1.90E-06	8.60E-06	1.32E-06	1.09E-06	7.66E-06
JCK	1.85E-06	1.63E-07	1.34E-07	9.41E-07	4.22E-06	6.53E-07	5.35E-07	3.77E-06
JDK	1.44E-06	2.23E-07	1.83E-07	1.29E-06	5.76E-06	8.92E-07	7.31E-07	5.15E-06
JEK	9.38E-07	1.45E-07	1.19E-07	8.37E-07	3.75E-06	5.81E-07	4.76E-07	3.35E-06
HFK	1.06E-06	1.64E-07	1.35E-07	9.49E-07	4.25E-06	6.58E-07	5.39E-07	3.79E-06
HGK	7.85E-07	1.22E-07	9.96E-08	7.01E-07	3.14E-06	4.86E-07	3.98E-07	2.80E-06
HHK	6.03E-07	9.34E-08	7.66E-08	5.39E-07	2.41E-06	3.74E-07	3.06E-07	2.16E-06
BIK	7.40E-07	1.15E-07	9.39E-08	6.61E-07	2.96E-06	4.59E-07	3.75E-07	2.64E-06
BJK	6.00E-07	9.29E-08	7.62E-08	5.36E-07	2.40E-06	3.72E-07	3.05E-07	2.14E-06
FKK	7.78E-07	1.21E-07	9.88E-08	6.95E-07	3.11E-06	4.82E-07	3.95E-07	2.78E-06
FLK	6.54E-07	1.01E-07	8.31E-08	5.85E-07	2.62E-06	4.05E-07	3.32E-07	2.34E-06
EMK	8.11E-07	1.26E-07	1.03E-07	7.25E-07	3.25E-06	5.03E-07	4.12E-07	2.90E-06
ENK	7.08E-07	1.09E-07	8.98E-08	6.29E-07	2.82E-06	4.34E-07	3.55E-07	2.50E-06
DDK	6.81E-07	1.05E-07	8.64E-08	6.08E-07	2.72E-06	4.22E-07	3.46E-07	2.43E-06
DFK	5.99E-07	9.27E-08	7.60E-08	5.35E-07	2.39E-06	3.71E-07	3.04E-07	2.14E-06
CDK	3.86E-07	5.97E-08	4.89E-08	3.44E-07	1.54E-06	2.39E-07	1.96E-07	1.38E-06
CHK	3.44E-07	5.32E-08	4.36E-08	3.07E-07	1.38E-06	2.13E-07	1.75E-07	1.23E-06
BBK	1.99E-07	3.08E-08	2.52E-08	1.78E-07	7.96E-07	1.23E-07	1.01E-07	7.11E-07
BIK	1.80E-07	2.78E-08	2.28E-08	1.60E-07	7.18E-07	1.11E-07	9.11E-08	6.41E-07
KAL	1.95E-06	2.66E-07	2.35E-07	1.72E-06	7.81E-06	1.15E-06	8.39E-07	6.86E-06
KBL	8.20E-07	1.21E-07	9.85E-08	7.20E-07	3.28E-06	4.83E-07	3.94E-07	2.88E-06
KCL	4.02E-07	5.92E-08	4.83E-08	3.53E-07	1.61E-06	2.37E-07	1.93E-07	1.41E-06
JDL	5.76E-07	8.48E-08	6.92E-08	5.06E-07	2.30E-06	3.39E-07	2.77E-07	2.02E-06
JEL	3.75E-07	5.52E-08	4.50E-08	3.29E-07	1.50E-06	2.21E-07	1.80E-07	1.32E-06
IFL	6.16E-07	9.08E-08	7.40E-08	5.41E-07	2.46E-06	3.63E-07	2.96E-07	2.16E-06

Table: 8.6-4.9

Airborne Iodine Sample Data

KEY	Filter Paper (µCi/cc)				Cartridge (µCi/cc)			
	I-131	I-132	I-133	I-135	I-131	I-132	I-133	I-135
IGL	4.55E-07	6.71E-08	5.47E-08	4.08E-07	1.82E-06	1.69E-07	2.19E-07	1.68E-06
IHL	3.50E-07	5.15E-08	4.20E-08	3.07E-07	1.40E-06	2.06E-07	1.68E-07	1.23E-06
HIL	4.48E-07	6.60E-08	5.38E-08	3.93E-07	1.79E-06	2.64E-07	2.15E-07	1.57E-06
HJL	3.63E-07	5.35E-08	4.36E-08	3.19E-07	1.45E-06	2.14E-07	1.75E-07	1.28E-06
GKL	4.65E-07	6.86E-08	5.59E-08	4.09E-07	1.86E-06	2.74E-07	2.24E-07	1.63E-06
GLL	3.91E-07	5.77E-08	4.70E-08	3.44E-07	1.57E-06	2.31E-07	1.88E-07	1.37E-06
FML	5.23E-07	7.70E-08	6.28E-08	4.59E-07	2.09E-06	3.08E-07	2.51E-07	1.84E-06
FNL	4.51E-07	6.64E-08	5.42E-08	3.96E-07	1.80E-06	2.66E-07	2.17E-07	1.58E-06
EOL	5.71E-07	8.42E-08	6.86E-08	5.02E-07	2.29E-06	3.37E-07	2.75E-07	2.01E-06
EPL	5.02E-07	7.40E-08	6.03E-08	4.41E-07	2.01E-06	2.96E-07	2.41E-07	1.76E-06
DQL	4.97E-07	7.32E-08	5.97E-08	4.36E-07	1.99E-06	2.93E-07	2.39E-07	1.75E-06
DRL	4.43E-07	6.53E-08	5.32E-08	3.89E-07	1.77E-06	2.61E-07	2.13E-07	1.56E-06
CSL	2.89E-07	4.26E-08	3.47E-08	2.54E-07	1.16E-06	1.70E-07	1.39E-07	1.02E-06
CTL	2.61E-07	3.84E-08	3.13E-08	2.29E-07	1.04E-06	1.54E-07	1.25E-07	9.16E-07
LAM	8.31E-07	1.17E-07	9.45E-08	7.18E-07	3.32E-06	4.68E-07	3.78E-07	2.87E-06
LBM	3.49E-07	4.89E-08	3.96E-08	3.01E-07	1.39E-06	1.96E-07	1.59E-07	1.20E-06
LCM	1.71E-07	2.40E-08	1.94E-08	1.48E-07	6.84E-07	9.59E-08	7.78E-08	5.91E-07
KDM	2.74E-07	3.78E-08	3.06E-08	2.32E-07	9.37E-07	1.31E-07	1.07E-07	8.09E-07
KEM	1.62E-07	2.14E-08	1.73E-08	1.32E-07	6.10E-07	8.55E-08	6.97E-08	5.27E-07
JFM	2.63E-07	3.68E-08	2.99E-08	2.27E-07	1.05E-06	1.47E-07	1.19E-07	9.07E-07
JGM	1.94E-07	2.72E-08	2.21E-08	1.68E-07	7.76E-07	1.09E-07	8.83E-08	6.70E-07
JHM	1.49E-07	2.09E-08	1.70E-08	1.29E-07	5.97E-07	8.37E-08	6.79E-08	5.15E-07
IIM	2.77E-07	3.88E-08	3.15E-08	2.39E-07	1.11E-06	1.55E-07	1.26E-07	9.57E-07
IJM	2.25E-07	3.15E-08	2.56E-08	1.94E-07	8.99E-07	1.26E-07	1.02E-07	7.76E-07
HKM	3.00E-07	4.21E-08	3.42E-08	2.59E-07	1.20E-06	1.68E-07	1.37E-07	1.04E-06
HLM	2.53E-07	3.54E-08	2.87E-08	2.18E-07	1.01E-06	1.42E-07	1.15E-07	8.72E-07
HMM	2.15E-07	3.02E-08	2.45E-08	1.86E-07	8.62E-07	1.21E-07	9.80E-08	7.44E-07
GNM	2.88E-07	4.03E-08	3.27E-08	2.48E-07	1.15E-06	1.61E-07	1.31E-07	9.93E-07
GOM	2.51E-07	3.51E-08	2.85E-08	2.16E-07	1.00E-06	1.41E-07	1.14E-07	8.65E-07
FPM	3.45E-07	4.84E-08	3.92E-08	2.98E-07	1.38E-06	1.94E-07	1.57E-07	1.19E-06
FQM	3.06E-07	4.29E-08	3.48E-08	2.64E-07	1.22E-06	1.71E-07	1.39E-07	1.06E-06
ERM	3.97E-07	5.56E-08	4.51E-08	3.42E-07	1.59E-06	2.22E-07	1.80E-07	1.37E-06
ESM	3.56E-07	4.99E-08	4.05E-08	3.07E-07	1.42E-06	2.00E-07	1.62E-07	1.23E-06
DTM	3.59E-07	5.03E-08	4.08E-08	3.10E-07	1.43E-06	2.01E-07	1.63E-07	1.24E-06

Table: 8.6-4.10

Airborne Particulate Sample Data

KEY	Isotope (μCi/cc)										
	Cs-134	Cs-137	Te-132	Sr-89	Sr-90	Ba-140	Ru-103	Ru-106	La-140	Nb-95	Zr-95
AAB	1.93E-05	1.19E-09	2.05E-11	9.37E-12	3.31E-13	1.34E-11	2.86E-12	5.27E-13	8.46E-14	6.47E-13	6.89E-13
ABB	8.88E-10	4.99E-10	8.58E-12	3.91E-12	1.39E-13	5.61E-12	1.20E-12	2.21E-13	3.55E-14	2.71E-13	2.88E-13
BAC	1.34E-03	8.29E-04	5.46E-06	2.13E-06	8.40E-09	3.40E-06	7.12E-07	1.31E-07	2.07E-08	1.7xE-07	1.xxE-07
BBC	8.63E-04	3.48E-04	2.29E-06	8.93E-07	3.57E-09	1.42E-06	2.99E-07	5.51E-08	8.51E-09	7.37E-08	6.74E-08
ACC	5.67E-10	3.24E-10	3.85E-12	1.58E-12	6.24E-14	2.52E-12	5.29E-13	9.44E-14	1.59E-14	1.22E-13	1.15E-13
ADC	2.12E-10	1.31E-10	2.25E-12	9.20E-13	3.64E-14	1.47E-12	3.14E-13	5.80E-14	9.28E-15	7.11E-14	6.67E-14
CA0	4.28E-03	2.64E-03	6.67E-06	2.48E-06	9.61E-09	3.96E-06	8.13E-07	1.50E-07	2.23E-08	2.13E-07	2.07E-07
CBD	1.80E-07	1.11E-07	2.80E-06	1.04E-06	4.11E-09	1.66E-06	3.41E-07	6.29E-08	9.29E-09	9.15E-08	8.81E-08
BC0	2.76E-04	1.71E-04	1.12E-06	4.37E-07	1.73E-09	6.98E-07	1.46E-07	2.70E-08	4.16E-09	3.62E-08	3.40E-08
BDD	1.61E-04	9.94E-05	6.54E-07	2.55E-07	1.01E-09	4.07E-07	8.54E-08	1.57E-08	2.47E-09	2.11E-08	1.98E-08
AED	1.78E-10	8.51E-11	1.46E-12	5.99E-13	2.37E-14	9.57E-13	2.05E-13	3.77E-14	6.02E-15	4.67E-14	4.76E-14
AFD	9.67E-11	5.97E-11	1.02E-12	4.20E-13	1.66E-14	6.71E-13	1.43E-13	2.65E-14	4.22E-15	3.24E-14	3.29E-14
DAE	1.20E-02	7.44E-03	7.18E-06	2.57E-06	1.00E-07	4.04E-06	8.18E-07	1.51E-07	2.16E-08	2.07E-07	2.13E-07
DBE	5.05E-03	3.12E-03	3.01E-06	1.06E-06	4.20E-08	1.69E-06	3.43E-07	6.32E-08	9.05E-09	1.02E-07	9.44E-08
CCE	8.81E-04	5.44E-04	1.27E-06	5.10E-07	1.82E-08	8.15E-07	1.67E-07	3.08E-08	4.57E-09	4.48E-08	4.22E-08
CDE	5.14E-04	3.17E-04	7.99E-07	2.97E-07	1.18E-08	4.75E-07	9.75E-08	1.80E-08	2.66E-09	2.61E-08	2.46E-08
BEE	1.05E-04	6.47E-05	4.23E-07	1.69E-07	6.76E-09	2.69E-07	5.56E-08	1.03E-08	1.68E-09	1.07E-08	1.29E-08
BFE	7.35E-05	4.54E-05	2.98E-07	1.16E-07	4.60E-09	1.86E-07	3.90E-08	7.19E-09	1.10E-09	9.62E-09	9.05E-09
AGE	7.14E-11	4.41E-11	7.55E-13	2.18E-13	1.22E-14	4.96E-13	1.06E-13	1.95E-14	3.11E-15	2.40E-14	2.26E-14
AHE	5.49E-11	3.39E-11	5.80E-13	2.36E-13	9.43E-15	3.81E-13	8.15E-14	1.50E-14	2.39E-15	1.84E-14	1.77E-14
EAF	2.05E-02	1.26E-02	4.68E-06	1.37E-06	6.21E-08	2.51E-06	4.98E-07	9.13E-08	1.26E-08	1.58E-07	1.48E-07
EBF	8.58E-03	5.30E-03	1.96E-06	6.59E-07	2.61E-08	1.05E-06	2.09E-07	3.85E-08	5.29E-09	6.61E-08	6.27E-08
DCF	2.29E-03	1.41E-03	1.36E-06	4.68E-07	1.90E-08	7.67E-07	1.55E-07	2.87E-08	4.09E-09	4.34E-08	4.27E-08
DDF	1.33E-03	8.23E-04	7.94E-07	2.80E-07	1.11E-08	4.47E-07	9.06E-08	1.67E-08	2.39E-09	2.63E-08	2.49E-08
CEF	3.09E-04	1.91E-04	4.79E-07	1.79E-07	7.07E-09	2.85E-07	5.86E-08	1.08E-08	1.60E-09	1.67E-08	1.48E-08
CFF	2.16E-04	1.34E-04	3.36E-07	1.25E-07	4.96E-09	2.00E-07	4.11E-08	7.58E-09	1.12E-09	1.17E-08	1.04E-08
BGF	5.01E-05	3.10E-05	1.97E-07	7.97E-08	3.14E-09	1.27E-07	2.66E-08	4.90E-09	7.31E-10	6.34E-09	6.78E-09
BHF	3.85E-05	2.38E-05	1.5xE-07	6.10E-08	2.41E-09	9.74E-08	2.04E-08	3.77E-09	5.77E-10	5.24E-09	4.75E-09
AIF	4.81E-11	2.48E-11	4.24E-13	1.74E-13	6.90E-15	2.79E-13	5.9xE-14	1.10E-14	1.74E-15	1.35E-14	1.27E-14
AJF	3.2xE-11	2.01E-11	3.44E-13	1.41E-13	5.60E-15	2.2xE-13	4.83E-14	8.91E-15	1.41E-15	1.09E-14	1.03E-14
FAG	2.89E-02	1.78E-02	2.57E-06	8.07E-07	3.19E-08	1.29E-06	2.72E-07	4.65E-08	6.11E-09	8.64E-08	8.14E-08
FBG	1.21E-02	7.47E-03	1.0xE-06	3.38E-07	1.34E-08	5.40E-07	1.06E-07	1.95E-08	2.5xE-09	3.xxE-08	3.41E-08
ECG	4.21E-07	2.xxE-03	9.xxE-07	3.27E-07	1.29E-08	5.16E-07	1.02E-07	1.87E-08	2.44E-09	3.24E-08	3.0xE-08
EDG	2.45E-03	1.51E-03	5.xxE-07	1.88E-07	7.45E-09	3.01E-07	5.97E-08	1.10E-08	1.5xE-09	1.89E-08	1.78E-08
DEG	8.xxE-04	5.36E-04	5.16E-07	1.82E-07	7.21E-09	2.91E-07	5.78E-08	1.07E-08	1.55E-09	1.72E-08	1.xxE-08
DFG	6.xxE-04	3.76E-04	3.xxE-07	1.28E-07	5.06E-09	2.04E-07	4.17E-08	7.63E-09	1.09E-09	1.21E-08	1.14E-08
CGG	1.xxE-04	9.87E-05	2.46E-07	9.2xE-08	3.6xE-09	1.45E-07	3.07E-08	5.xxE-09	8.25E-10	8.14E-09	7.xxE-09
CHG	1.23E-04	7.59E-05	1.91E-07	7.11E-08	2.81E-09	1.14E-07	2.37E-08	4.32E-09	6.34E-10	6.25E-09	5.89E-09
BIG	3.85E-05	1.88E-05	1.23E-07	4.87E-08	1.91E-09	7.71E-08	1.62E-08	2.78E-09	4.3xE-10	3.99E-09	3.7xE-09

Table: 8.8-4.11

Airborne Particulate Sample Data

XE	Isotope (uCi/cc)										
	Cs-134	Cs-137	Te-132	Sr-89	Sr-90	Ba-140	Ru-103	Ru-106	La-140	Yb-65	Zr-95
BJB	2.48E-05	1.53E-05	1.00E-07	3.92E-08	1.55E-09	6.26E-08	1.71E-08	2.42E-09	3.70E-10	3.24E-09	3.29E-07
AJB	2.69E-11	1.66E-11	2.84E-13	1.17E-12	4.63E-15	1.87E-13	4.88E-14	7.28E-15	1.17E-15	9.04E-15	9.31E-13
ALB	2.27E-11	1.40E-11	2.39E-13	9.84E-14	3.89E-15	1.57E-13	3.36E-14	6.20E-15	9.82E-16	7.60E-15	7.16E-13
BAH	3.37E-02	2.08E-02	1.13E-06	3.46E-07	1.37E-08	5.52E-07	1.05E-07	1.94E-08	2.47E-09	3.94E-08	2.71E-05
GRH	1.41E-02	8.74E-03	4.75E-07	1.45E-07	5.74E-09	2.31E-07	4.41E-08	8.14E-09	1.04E-09	1.65E-08	1.14E-05
FCH	5.51E-03	3.40E-03	4.62E-07	1.54E-07	6.10E-09	2.46E-07	4.81E-08	8.88E-09	1.14E-09	1.80E-08	1.25E-06
FDH	3.21E-07	1.98E-07	2.81E-07	8.98E-08	3.55E-09	1.43E-07	2.80E-08	5.18E-09	6.79E-10	9.62E-09	7.04E-09
FEH	2.09E-07	1.29E-07	1.83E-07	5.85E-08	2.31E-09	9.33E-08	1.83E-08	3.37E-09	4.42E-10	6.27E-09	4.58E-09
EFH	1.04E-03	6.42E-04	2.37E-07	7.98E-08	3.16E-09	1.27E-07	2.53E-08	4.67E-09	6.08E-10	8.61E-09	7.54E-09
EGH	7.68E-04	4.75E-04	1.75E-07	5.90E-05	2.33E-09	9.41E-08	1.87E-08	3.45E-09	4.71E-10	5.92E-05	5.57E-09
DHH	3.21E-04	1.98E-04	1.91E-07	6.74E-08	2.67E-09	1.08E-07	2.13E-08	4.02E-09	5.70E-10	6.77E-09	6.08E-09
DIH	2.54E-04	1.57E-04	1.51E-07	5.34E-08	2.11E-09	8.52E-08	1.77E-08	3.19E-09	4.52E-10	5.04E-09	4.75E-09
CJH	7.32E-05	4.53E-05	1.14E-07	4.25E-06	1.68E-09	6.79E-08	1.39E-08	2.57E-09	3.77E-10	3.73E-09	3.51E-09
CKH	6.87E-05	3.75E-05	9.42E-08	3.51E-09	1.39E-09	5.61E-08	1.15E-08	2.12E-09	3.12E-10	3.09E-09	2.91E-09
BLH	1.68E-05	9.88E-06	6.46E-08	2.33E-08	1.00E-09	4.04E-08	8.43E-09	1.54E-09	2.28E-10	2.09E-09	1.97E-09
AMH	1.79E-11	1.11E-11	1.89E-13	7.74E-14	3.08E-15	1.24E-13	2.66E-14	4.91E-15	7.25E-16	6.02E-15	5.67E-13
ANH	1.55E-11	9.56E-12	1.63E-13	6.72E-14	2.66E-15	1.07E-13	2.30E-14	4.24E-15	6.26E-16	5.19E-15	4.89E-13
HAI	4.20E-02	2.60E-02	5.38E-07	1.56E-07	6.19E-09	2.50E-07	4.67E-08	8.61E-09	1.26E-09	1.98E-08	1.73E-08
HBI	1.76E-02	1.09E-02	2.26E-07	6.56E-08	2.60E-09	1.05E-07	1.96E-08	3.61E-09	4.47E-10	7.97E-09	7.53E-09
HCI	8.65E-03	5.34E-03	1.11E-07	3.22E-08	1.27E-09	5.13E-08	9.60E-09	1.77E-09	2.17E-10	3.91E-09	3.69E-09
HDI	3.78E-03	2.33E-03	1.27E-07	3.87E-08	1.53E-09	6.17E-08	1.18E-08	2.17E-09	2.76E-10	4.41E-09	4.13E-09
HEI	2.46E-03	1.52E-03	8.24E-08	2.52E-05	9.97E-10	4.02E-09	7.66E-09	1.41E-09	1.80E-10	2.87E-09	2.71E-09
HFI	1.07E-03	8.44E-04	1.20E-07	3.83E-08	1.51E-09	6.10E-08	1.19E-08	2.20E-09	2.88E-10	4.12E-09	3.86E-09
HGI	1.81E-03	6.24E-04	8.84E-08	2.83E-08	1.12E-09	4.51E-08	8.83E-09	1.63E-09	2.17E-10	3.07E-09	2.85E-09
EHJ	5.51E-04	3.40E-04	1.25E-07	4.17E-08	1.67E-09	6.75E-08	1.34E-08	2.47E-09	3.27E-10	4.25E-09	4.00E-09
EIJ	4.37E-04	2.70E-04	9.94E-08	3.35E-08	1.33E-09	5.35E-08	1.06E-08	1.96E-09	2.67E-10	3.36E-09	3.17E-09
DJJ	1.92E-04	1.19E-04	1.14E-07	4.04E-08	1.60E-09	6.45E-08	1.31E-08	2.41E-09	3.41E-10	3.83E-09	3.62E-09
DKJ	1.59E-04	9.84E-05	9.44E-08	3.34E-08	1.32E-09	5.34E-08	1.08E-08	2.00E-09	2.82E-10	3.16E-09	2.98E-09
CLJ	4.76E-05	2.94E-05	7.37E-08	2.76E-08	1.09E-09	4.48E-08	9.04E-09	1.67E-09	2.44E-10	2.42E-09	2.13E-09
CMJ	4.86E-05	2.51E-05	6.28E-08	2.35E-08	9.30E-10	3.75E-08	7.70E-09	1.42E-09	2.08E-10	2.07E-09	1.95E-09
HNJ	1.18E-05	6.78E-06	4.43E-08	1.74E-08	6.86E-10	2.77E-08	5.62E-09	1.07E-09	1.63E-10	1.44E-09	1.35E-09
HOJ	9.57E-06	5.91E-06	3.86E-08	1.51E-08	5.99E-10	2.42E-08	5.07E-09	9.36E-10	1.42E-10	1.25E-09	1.18E-09
HPJ	1.11E-11	6.83E-12	1.16E-13	4.80E-14	1.90E-15	7.66E-14	1.64E-14	3.03E-15	4.76E-16	3.71E-15	3.49E-13
IAJ	5.52E-02	3.41E-02	2.72E-07	7.50E-08	2.97E-09	1.20E-07	2.20E-08	4.06E-09	4.78E-10	9.71E-09	9.15E-09
IBJ	2.22E-02	1.47E-02	1.14E-07	3.15E-08	1.24E-09	5.02E-08	9.22E-09	1.70E-09	2.00E-10	4.06E-09	3.84E-09
ICJ	1.14E-02	7.01E-03	5.59E-08	1.54E-08	6.10E-10	2.46E-08	4.52E-09	8.34E-10	9.83E-11	2.00E-09	1.88E-09
HDJ	5.04E-03	3.11E-03	6.45E-08	1.88E-08	7.42E-10	2.99E-08	5.60E-09	1.03E-09	1.26E-10	2.22E-09	2.14E-09
HEJ	3.28E-03	2.03E-03	4.20E-08	1.22E-08	4.83E-10	1.95E-08	3.64E-09	6.72E-10	8.22E-11	1.49E-09	1.40E-09
HFJ	1.72E-03	1.06E-03	5.77E-08	1.77E-08	6.99E-10	2.87E-08	5.37E-09	9.92E-10	1.26E-10	2.21E-09	1.98E-09

Table: 8.6-4.12

Airborne Particulate Sample Data

LOCATION	Isotope (pCi/cc)										
	Cs-134	Cs-137	Te-132	Sr-89	Sr-90	Ba-140	Ru-103	Ru-106	La-140	Nb-95	Zr-95
AGJ	1.27E-03	7.87E-04	4.26E-08	1.33E-05	5.16E-10	2.08E-08	5.97E-09	7.32E-10	9.20E-11	1.49E-09	1.48E-09
AHJ	7.77E-04	4.80E-04	6.78E-08	2.17E-08	8.60E-10	3.47E-08	6.79E-09	1.25E-09	1.63E-10	2.33E-09	2.19E-09
AIJ	6.15E-04	3.80E-04	5.37E-08	1.72E-08	6.81E-10	2.75E-08	5.37E-09	9.92E-10	1.29E-10	1.84E-09	1.74E-09
AJJ	3.54E-04	2.19E-04	8.05E-08	2.72E-08	1.08E-09	4.34E-08	8.62E-09	1.59E-09	2.16E-10	2.72E-09	2.57E-09
AKJ	2.93E-04	1.81E-04	6.66E-08	2.25E-08	8.90E-10	3.59E-08	7.13E-09	1.32E-09	1.79E-10	2.26E-09	2.13E-09
DLJ	1.34E-04	8.27E-05	7.93E-08	2.81E-08	1.11E-09	4.49E-08	9.10E-09	1.68E-09	2.27E-10	2.66E-09	2.50E-09
DMJ	1.14E-04	7.05E-05	6.76E-08	2.40E-08	9.49E-10	3.82E-08	7.76E-09	1.43E-09	2.02E-10	2.27E-09	2.13E-09
DNJ	3.50E-05	2.16E-05	5.41E-08	2.07E-08	8.02E-10	3.23E-08	6.64E-09	1.22E-09	1.79E-10	1.79E-09	1.68E-09
DOJ	3.05E-05	1.88E-05	4.71E-08	1.77E-08	6.99E-10	2.82E-08	5.75E-09	1.07E-09	1.56E-10	1.55E-09	1.46E-09
BPJ	8.41E-06	5.19E-06	3.38E-08	1.33E-08	5.27E-10	2.12E-08	4.46E-09	8.22E-10	1.25E-10	1.10E-09	1.04E-09
BQJ	7.45E-06	4.60E-06	3.00E-08	1.18E-08	4.66E-10	1.88E-08	3.95E-09	7.29E-10	1.10E-10	9.73E-10	9.17E-10
AFJ	8.74E-12	5.40E-12	9.17E-14	3.79E-14	1.50E-15	6.05E-14	1.02E-14	2.39E-15	3.75E-16	2.92E-15	2.76E-15
AGJ	7.64E-12	4.84E-12	8.23E-14	3.41E-14	1.35E-15	5.43E-14	1.16E-14	2.15E-15	3.37E-16	2.63E-15	2.48E-15
JAX	4.57E-02	2.82E-02	8.58E-08	2.26E-08	8.96E-10	3.61E-08	6.50E-09	1.20E-09	1.36E-10	7.12E-09	6.94E-09
JBY	1.92E-02	1.18E-02	7.68E-08	9.49E-09	3.76E-10	1.51E-08	2.72E-09	5.04E-10	9.71E-11	2.71E-09	1.32E-09
JCX	9.40E-03	5.80E-03	1.77E-08	4.66E-09	1.84E-10	7.42E-09	1.34E-09	2.47E-10	3.80E-11	6.91E-10	6.74E-10
JDX	6.62E-03	4.09E-03	3.25E-08	8.99E-09	3.56E-10	1.43E-08	2.64E-09	4.86E-10	5.71E-11	1.36E-09	1.32E-09
IEX	4.31E-02	2.66E-02	2.12E-08	5.85E-09	2.32E-10	9.34E-09	1.72E-09	3.17E-10	3.72E-11	7.55E-10	7.14E-10
HFX	2.30E-02	1.42E-02	2.94E-08	8.56E-09	3.39E-10	1.36E-08	2.55E-09	4.71E-10	5.75E-11	1.04E-09	9.79E-10
HGX	1.70E-02	1.05E-02	2.17E-08	6.33E-09	2.50E-10	1.01E-08	1.89E-09	3.48E-10	4.25E-11	7.69E-10	7.27E-10
HHX	1.31E-02	8.07E-04	1.67E-08	4.86E-09	1.92E-10	7.75E-09	1.45E-09	2.68E-10	3.26E-11	5.90E-10	5.56E-10
BIX	7.75E-04	4.79E-04	2.59E-08	7.94E-09	3.14E-10	1.27E-08	2.42E-09	4.46E-10	5.67E-11	9.06E-10	8.57E-10
BJX	6.29E-04	3.89E-04	2.10E-08	6.44E-09	2.55E-10	1.03E-08	1.96E-09	3.62E-10	4.57E-11	7.35E-10	6.91E-10
FXX	4.13E-04	2.55E-04	3.68E-08	1.16E-08	4.57E-10	1.84E-08	3.61E-09	6.66E-10	8.66E-11	1.24E-09	1.17E-09
FLX	3.47E-04	2.14E-04	7.03E-09	9.72E-09	3.84E-10	1.55E-08	7.03E-09	5.60E-10	7.28E-11	1.04E-09	9.83E-10
EMX	2.10E-04	1.30E-04	4.77E-08	1.61E-08	6.38E-10	2.57E-08	5.11E-09	9.44E-10	1.28E-10	1.83E-09	1.73E-09
ENX	1.81E-04	1.12E-04	4.11E-08	1.39E-08	5.50E-10	2.22E-08	4.41E-09	8.14E-10	1.10E-10	1.57E-09	1.49E-09
DDX	8.58E-05	5.30E-05	5.87E-08	1.98E-08	7.13E-10	2.87E-08	5.67E-09	1.08E-09	1.51E-10	1.70E-09	1.60E-09
DPX	7.54E-05	4.66E-05	4.46E-08	1.58E-08	6.27E-10	2.53E-08	5.12E-09	9.45E-10	1.33E-10	1.50E-09	1.41E-09
DDX	2.38E-05	1.47E-05	2.66E-08	1.38E-08	5.44E-10	2.19E-08	4.51E-09	8.32E-10	1.21E-10	1.21E-09	1.14E-09
CBX	2.12E-05	1.31E-05	3.37E-08	1.23E-08	4.85E-10	1.96E-08	4.02E-09	7.42E-10	1.08E-10	1.08E-09	1.01E-09
BBX	5.96E-06	3.68E-06	2.40E-08	9.43E-09	3.73E-10	1.50E-08	3.16E-09	5.83E-10	8.81E-11	7.62E-10	7.24E-10
BTX	5.08E-06	3.32E-06	2.16E-08	8.51E-09	3.37E-10	1.36E-08	2.85E-09	5.26E-10	7.95E-11	7.04E-10	6.62E-10
KAL	3.63E-02	2.24E-02	2.68E-08	6.54E-09	2.59E-10	1.04E-08	1.84E-09	3.40E-10	3.71E-11	9.62E-10	9.05E-10
KBL	1.52E-02	9.40E-03	1.09E-08	2.75E-09	1.09E-10	4.38E-09	7.73E-10	1.43E-10	1.56E-11	4.02E-10	3.80E-10
KCL	7.46E-03	4.61E-03	5.34E-09	1.35E-09	5.32E-11	2.15E-09	3.79E-10	7.00E-11	7.64E-12	1.98E-10	1.86E-10
JDL	5.14E-03	3.17E-03	9.63E-09	2.54E-09	1.01E-10	4.06E-09	7.31E-10	1.35E-10	1.57E-11	3.81E-10	3.70E-10
JEL	3.34E-03	2.07E-03	6.27E-09	1.66E-09	6.56E-11	2.64E-09	4.76E-10	8.79E-11	9.97E-12	2.28E-10	2.15E-10
IFL	2.87E-03	1.75E-03	1.79E-08	3.85E-09	1.52E-10	6.13E-09	1.13E-09	2.08E-10	2.44E-11	4.98E-10	4.69E-10

Table: 8.6-4.13

Airborne Particulate Sample Data

KEY	Isotope (uCi/cc)										
	Cs-134	Cs-137	Te-132	Sr-89	Sr-90	Ba-140	Ru-103	Ru-106	La-140	Mn-54	Zr-95
IBL	2.09E-03	1.29E-03	1.02E-08	2.84E-09	1.13E-10	4.53E-09	8.33E-10	1.84E-10	1.80E-11	2.69E-10	7.47E-10
IHL	1.61E-03	9.93E-04	7.89E-09	2.19E-09	8.65E-11	3.48E-09	6.40E-10	1.18E-10	1.38E-11	2.07E-10	5.67E-10
IIL	9.73E-04	5.99E-04	1.24E-08	2.61E-09	1.42E-10	5.75E-09	1.08E-09	1.99E-10	2.42E-11	4.73E-10	4.13E-10
IOL	7.87E-04	4.86E-04	1.80E-06	2.93E-09	1.16E-10	4.67E-09	8.74E-10	1.61E-10	1.96E-11	3.56E-10	3.35E-10
IUL	4.86E-04	3.01E-04	1.63E-08	5.08E-09	1.98E-10	7.97E-09	1.52E-09	2.81E-10	3.54E-11	5.70E-10	5.77E-10
JBL	4.10E-04	2.53E-04	1.37E-08	4.28E-09	1.66E-10	6.70E-09	1.28E-09	2.36E-10	2.97E-11	4.80E-10	4.52E-10
JHL	2.78E-04	1.71E-04	2.42E-08	7.77E-09	3.07E-10	1.24E-08	2.42E-09	4.48E-10	5.60E-11	8.72E-10	7.83E-10
JIL	2.09E-04	1.48E-04	2.08E-08	6.70E-09	2.65E-10	1.07E-08	2.09E-09	7.86E-10	5.01E-11	7.18E-10	6.76E-10
JOL	1.48E-04	9.14E-05	3.36E-08	1.14E-08	4.50E-10	1.81E-08	3.60E-09	6.65E-10	8.48E-11	1.14E-09	1.07E-09
JPL	1.30E-04	8.04E-05	2.95E-05	9.99E-09	3.95E-10	1.59E-08	3.17E-09	5.84E-10	7.89E-11	1.02E-09	9.44E-10
JUL	6.26E-05	3.87E-05	3.70E-08	1.32E-08	5.21E-10	2.10E-08	4.25E-09	7.85E-10	1.08E-10	1.24E-09	1.17E-09
KBL	8.59E-05	5.45E-05	5.50E-08	1.17E-08	4.64E-10	1.87E-08	3.79E-09	7.00E-10	9.62E-11	1.15E-09	1.04E-09
KHL	1.78E-05	1.10E-05	2.74E-06	1.03E-08	4.08E-10	1.64E-08	3.33E-09	6.14E-10	8.47E-11	9.87E-10	9.14E-10
KIL	1.41E-05	9.94E-06	2.48E-08	9.31E-09	3.68E-10	1.48E-08	3.00E-09	5.53E-10	7.63E-11	8.19E-10	7.70E-10
KOL	9.26E-06	5.81E-06	8.93E-09	2.14E-09	8.47E-11	3.42E-09	6.97E-10	1.30E-10	1.13E-11	1.72E-10	2.16E-10
KPL	1.07E-05	6.47E-06	3.76E-09	9.80E-10	3.86E-11	1.47E-09	2.49E-10	4.59E-11	4.32E-12	1.41E-10	1.32E-10
KUM	6.70E-06	4.14E-06	1.84E-09	4.41E-10	1.75E-11	7.03E-10	1.22E-10	2.25E-11	2.74E-12	6.93E-11	6.53E-11
LBM	4.05E-06	2.69E-06	3.11E-09	7.85E-10	3.11E-11	1.25E-09	2.21E-10	4.08E-11	4.44E-12	1.15E-10	1.08E-10
LEM	2.83E-06	1.75E-06	2.82E-09	5.11E-10	2.02E-11	8.14E-10	1.44E-10	2.66E-11	2.89E-12	7.51E-11	7.07E-11
LFM	2.34E-06	1.45E-06	4.29E-09	1.16E-09	4.60E-11	1.85E-09	3.34E-10	6.16E-11	6.94E-12	1.60E-10	1.51E-10
LGM	1.73E-06	1.07E-06	3.24E-09	8.56E-10	3.40E-11	1.37E-09	2.47E-10	4.55E-11	5.17E-12	1.19E-10	1.11E-10
LHM	1.33E-06	8.22E-04	2.49E-09	6.60E-10	2.61E-11	1.05E-09	1.90E-10	3.50E-11	3.94E-12	9.09E-11	8.56E-11
LIM	1.27E-06	7.87E-04	6.24E-09	1.72E-09	6.85E-11	2.76E-09	5.07E-10	9.36E-11	1.04E-11	2.34E-10	2.11E-10
LJM	1.03E-06	6.38E-04	5.07E-09	1.40E-09	5.56E-11	2.24E-09	4.12E-10	7.60E-11	8.47E-12	1.82E-10	1.71E-10
LKM	6.52E-04	4.01E-04	8.29E-09	2.42E-09	9.59E-11	3.86E-09	7.03E-10	1.27E-10	1.62E-11	2.94E-10	2.77E-10
LLM	5.48E-04	3.38E-04	6.98E-09	2.04E-09	8.07E-11	3.25E-09	6.08E-10	1.12E-10	1.36E-11	2.47E-10	2.32E-10
LMM	4.67E-04	2.88E-04	5.95E-09	1.74E-09	6.88E-11	2.77E-09	5.18E-10	9.57E-11	1.14E-11	2.12E-10	1.99E-10
LNM	3.82E-04	1.86E-04	1.81E-08	3.89E-09	1.02E-10	4.93E-09	9.41E-10	1.74E-10	2.18E-11	3.83E-10	3.22E-10
LOM	2.67E-04	1.62E-04	8.76E-09	2.69E-09	1.07E-10	4.29E-09	8.19E-10	1.51E-10	1.98E-11	3.07E-10	2.85E-10
LPM	1.83E-04	1.13E-04	1.59E-08	5.13E-09	2.03E-10	8.18E-09	1.60E-09	2.96E-10	3.62E-11	5.49E-10	5.17E-10
LQM	1.62E-04	1.00E-04	1.41E-08	4.54E-09	1.80E-10	7.24E-09	1.42E-09	2.62E-10	3.09E-11	4.87E-10	4.56E-10
LRM	1.03E-04	6.35E-05	2.33E-08	7.89E-09	3.12E-10	1.26E-08	2.50E-09	4.62E-10	6.02E-11	7.82E-10	7.46E-10
LSM	8.27E-05	5.78E-05	2.09E-08	7.08E-09	2.80E-10	1.13E-08	2.24E-09	4.14E-10	5.58E-11	7.11E-10	6.69E-10
LTM	4.52E-05	2.79E-05	2.67E-08	9.50E-09	3.76E-10	1.51E-08	3.07E-09	5.67E-10	7.97E-11	8.47E-10	8.45E-10