### HSEP EMERGENCY EXERCISE NOVEMBER 17, 1987

#### SCENARIO CHANGES

- 1. Time line-1145 Normal injection path "not" available for SLC.
- 2. Time line flowchart-1145 SLC discharge valve C41-F005 leaking.
- 3. Additional information for message #1-seismic chart readout.
- Message #2-drop the word contigency, this message is to be given in the Control Room.
- 5. Message #7A-change time from 1035 to 1005.
- 6. SPDS data sheet, 1100-change line 7 from "Y" to "N".
- 7. SPDS data sheet, 1115-MAY change from "Y" to "N" if Control Room doesn't get to this point in the EOP by 1115.
- 8. SPDS data, line 26-main stack gas monitor, sheets:

0830-5.5 E+1 0845-6.0 E+1 0900-6.5 E+1 0915-6.5 E+1 0930 through 1045-7.0 E+1 1100 through 1245-5.0 E+1

These changes were necessary to make rad data consistant between the main stack gas monitor and the SJAEs.

32 35



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Pete Dorosko @ 2515 Kalyl Hodini lemmel 200 4080 \$ 4081 05C 2427 EOF 4704 CEOC 8-1770 PBX 6031 XH.

### CAROLINA POWER & LIGHT COMPANY

### PLAN FOR BRUNSWICK STEAM ELECTRIC PLANT EMERGENCY EXERCISE

NOVEMBER 17, 1987



## CAROLINA POWER & LIGHT COMPANY

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## PLAN FOR BRUNSWICK STEAM ELECTRIC PLANT EMERGENCY EXERCISE NOVEMBER 17, 1987

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#### CAROLINA POWER & LIGHT COMPANY

### PLAN FOR BRUNSWICK STEAM ELECTRIC PLANT EMERGENCY EXERCISE November 17, 1987

#### I. MISSION AND PURPOSE OF EXERCISE

To activate and evaluate major portions of emergency response capabilities and other elements of the CP&L Brunswick Steam Electric Plant Plan, associated implementing procedures, and the CP&L Corporate Emergency Plans in accordance with Nuclear Regulatory Commission (NRC) Regulation 10 CFR 50.47(b).

### II. SCOPE AND OBJECTIVES

A. Scope

A simulated accident at the Brunswick Steam Electric Plant (BSEP) which could escalate to a general emergency and will involve planned response and recovery actions to include: emergency classification; notification of off-site organizations and plant personnel; actions to correct the emergency conditions; and initiation of accident assessment and protective actions as necessary to cope with the accident. The exercise will simulate an emergency that results in off-site radiological releases which require responses by state and local government personnel.

### B. Objectives

- Demonstrate the ability of on-site personnel to effectively utilize the emergency action level scheme.
- Demonstrate the ability of on-site personnel to classify the emergency based on existing plant conditions.
- Demonstrate the adequacy of the control room staff in the ability to perform control and accident mitigation activities along with accident assessment.
- Demonstrate the adequacy of procedures for alerting, notifying, and mobilizing emergency response personnel (some individuals will be pre-staged within the local area).
- Demonstrate that communications capabilities exist to accomplish notification of off-site agencies.
- Demonstrate the ability to notify off-site authorities within 15 minutes of the emergency classification.

 Demonstrate the adequacy of the information provided in the initial notification, as well as follow-up notifications to the State and Counties (state and local government organizations will not participate).

#### II. SCOPE AND OBJECTIVES (Cont'd)

- Demonstrate the ability of on-site personnel to formulate protective action recommendations based on pre-established criteria.
- Demonstrate ability of personnel to activate the TSC, OSC, EOF, and Plant Media Center as described in the emergency plan and procedures.
- Demonstrate transfer of responsibility between emergency response facilities as described in the plan and procedures.
- Demonstrate the ability to communicate between emergency response facilities.
- 12. Demonstrate the adequacy of the Operations Support Center in providing manpower support and coordination.
- Demonstrate the adequacy of the Technical Support Center in providing accident assessment and mitigation, dose assessment, and communication/notification activities.
- Demonstrate the adequacy of the EOF in coordinating off-site utility activities.
- 15. Demonstrate recordkeeping requirements as described in the plan and procedures.
- 16. Demonstrate that status boards are maintained and updated.
- Demonstrate the ability to provide adequate radiation protection services such as dosimetry and personnel monitoring.
- Demonstrate the capability to perform radiological monitoring activities and assessments.
- Demonstrate the ability to support the radiological assessment process while maintaining personnel radiation exposure as-lowas-reasonably achievable (ALARA).
- Demonstrate the assessment of radiological consequences of the accident and of any releases of radioactive material to the environment.
- 21. Demonstrate the activation, operation, and reporting of the field monitoring teams within and beyond the site boundary.

22. Demonstrate the ability to perform on-site accountability within 30 minutes from the time of the order for accountability.

#### II. SCOPE AND OBJECTIVES (Cont'd)

- Demonstrate the ability to provide safe on-site access to offsite emergency services and/or support personnel (normal security access procedures will be adhered to).
- 24. Demonstrate proper procedures for the fire brigade response to the type of fire chosen for the exercise.
- 25. Demonstrate the adequacy of the interface between off-site fire support personnel and the plant fire brigade.
- 26. Demonstrate the capability to produce public information releases.

#### III. SITUATION AND ASSUMPTIONS

- A. Exercise Dates
  - Submit exercise scope, and objectives to NRC: Exercise - 75 days (September 3, 1987).
  - 2. Submit exercise scenario to NRC:

Exercise - 45 days (October 2, 1987).

3. Final Evaluator Meeting:

Exercise - November 16, 1987; 1400 hours TSC/EOF Training Building, Room No. 122.

4. Exercise:

1

November 17, 1987; 0800 to 1600 hours

5. Evaluator Group Meeting:

November 17, 1987; 1600 to 1800 hours

6. Lead Evaluator Meeting:

November 17, 1987; 1800 to 2000 hours

 Post Exercise Critique Report to Players: November 18, 1987; 1100 hours

NRC Exit/Critique
 November 18, 1987; 1130 hours

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- 3 -

#### III. SITUATION AND ASSUMPTIONS (Cont'd)

- B. Exercise Locations/Facilities
  - 1. Brunswick Plant, Southport, North Carolina
    - a. <u>Control Room</u> (see Attachment #5). Function is to provide plant control and initial direction of all plant related emergency operations.
    - b. <u>Operations Support Center (OSC)</u> (see Attachment #5). The OSC will be located in the Service Building. The function of the OSC is to provide an area for assembly and briefing of )ff-shift and other support personnel.
    - c. Technical Support Center (TSC) (see Attachment #5). The Technical Support Center is located in the Training Building and is to provide an assembly location for technical personnel who provide engineering and management support of plant activities following an accident; direction and coordination of overall plant emergency activities; direction and coordination of field, mobile, radiological monitoring teams prior to EOF activation; on-site dose projections; off-site dose projections prior to EOF activation; display of status of plant parameters; and provide an emergency reference collection of selected engineering and plant documents. The TSC is activated and emergency functions performed in accordance with the provisions of the plant radiological emergency response plan and procedures.

The TSC will perform the Emergency Operations Facility (EOF) functions until the EOF is operational. In addition to the normal plant communications system, redundant emergency communications facilities in the TSC provide telephone contact with required agencies and other response centers by use of the Corporate Emergency Communications System.

- d. <u>Plant Media Center</u>. Located behind the Information/Visitor Center at the Brunswick Site. The Center will be staffed by CP&L Site Public Information Coordinator and other Corporate Public Information personnel. Work stations and a briefing room are available at the Center for CP&L personnel to assist the media representatives by provide immediate access to accurate emergency related information and providing equipment for document reproduction and for communications. Media participation will be simulated.
- e. <u>Emergency Operations Facility (EOF)</u> (see Attachment #5). The EOF is located in the plant Training Building. When activated, the EOF is managed by the Emergency Response Manager. He will have a staff to



provide support in: Technical Analysis, Administration and Logistics, Radiological Control, and Emergency Communications.

f. <u>Meteorology Tower</u>. Located north of the TSC on the plant site. Measures wind at 11.46 meters (38 feet) and 104.55 meters (345 feet) above the ground.

Meteorology and Weather

- 1. Start of Exercise: As advised by Controller
- 2. Subsequent: As advised by Controller
- g. <u>Corporate Emergency Operations Center (CEOC)</u>, Raleigh, The Corporate Emergency Operations Center is located on the 11th floor in the Center Plaza Building, Raleigh, NC.

#### h. Miscellaneous Facilities

- Brunswick County Airport, 25-foot elevation, 3200foot runway, in located approximately 5 miles via Route 133 from the BSEP. Phone (919) 457-6577.
- (2) Motels

Sea Captain Motel, Southport, NC (919) 457-5263.

- Wayward Wynds, Yaupon Beach (919) 278-5975.
- Oak Island Inn, Yaupon Eeach (919) 278-5442

Ocean Crest Motel, Long Beach (919) 278-5212

Best Western Carolinian, Wilmington (919) 763-4653

#### IV. CONCEPTS AND CONDUCT OF THE EXERCISE

#### A. Exercise Scenario

The exercise will simulate an off-normal incident at BSEP that may escalate to a General Emergency and require: aucident recognition and classification; assessment of on-site and off-site radiological consequences; alerting, notification, and mobilization of various organizations and personnel; in-plant corrective actions; activation and use of emergency facilities and equipment; effective use of communications; preparation of reports, messages, and records; taking on-site protective action, recommending off-site protective action; and maintaining public relations. During the course of the exercise, there will also arise incidents that require deployment of CP&L radiological monitoring teams for off-site monitoring. The scenario and time schedule of simulated plant conditions is contained in Attachment 4. Only the NRC and CP&L Controllers/Evaluators will receive the scenario.

#### B. Brunswick Exercise Organization Activities

The exercise organization will consist of players; the Corporate Exercise Director; Lead Controller; the Controllers; the Chief Evaluator; the Evaluators; and Observers as follows:

- 1. The CP&L Players include all plant and other CP&L personnel assigned to perform functions of the emergency positions as described in Section 3 of the Plant Emergency Procedures (PEF). The success of the exercise is largely dependent upon player reaction, player knowledge of the Radiological Emergency Response Plan and Procedures, and an understanding of the Exercise Plan and objectives. Some situations affecting player action or reaction may exist at the time the exercise play begins, however, most will be introduced through the vehicle of Controller Exercise Message Cards and messages generated by players as a result of following the procedures for the particular emergency activity they perform. Players, therefore, are responsible for initiating actions and/or messages during the exercise according to the procedures. responsibilities, and tasks outlined for their particular function in the Plant Radiological Emergency Response Plan and Procedures and in the Exercise Plan and objectives. Certain inconsistencies (such as plume width, release duration. technical reason for the simulated release, etc.) may be identified by players. These may be intentional and required to provide an exercise basis which tests the plant and corporate capabilities to the maximum extent feasible in a limited time frame. With the exception of the already cited and potential inconsistencies, the internal operations of the emergency response facilities will be identical with their intended operation in a real emergency. Players will be identified by wearing a WHITE ribbon, arm band or ID badge.
- 2. <u>The Corporate EP Exercise Director</u> will be responsible for overall exercise preparation; to oversee conduct of the exercise; to arrange preparation at the conclusion of the exercise for a consolidated evaluation and critique report; and to prepare and follow-up on an itemized list of corrective actions recommended as a result of evaluation and critique.
- 3. <u>Lead Controller will be responsible for exercise preparation</u> as directed by the Corporate Exercise Director. This will include development of the exercise plan, the scenario and the controller input messages. During the exercise the Lead

Controller will coordinate controller input as necessary to initiate player response and keep the exercise action moving according to the scenario and exercise objectives.

- 4. The Controllers will deliver "Exercise Message Cards" to designated exercise players at various times and places during the exercise; inject or deliver additional messages, signs, etc., as may be required to initiate the appropriate player response and keep the exercise action moving according to the scenario and exercise objectives; observe the exercise at their assigned locations; prepare critique notes; and submit recommendations on corrective actions to the Chief Exercise Evaluator prior to the scheduled critique. Controllers will be identified by wearing a <u>RED</u> ribbon, arm band, or ID badge.
- 5. Chief Evaluator and Evaluators are CP&L or other qualified personnel who are assigned to observe and judge the effectiveness of selected organizations, personnel, functions, and/or activities of the plant radiological emergency response plan and procedures. Selection of evaluators is based on their expertise in, or their qualifications to evaluate the activity or area assigned. For example, health physics activities will be evaluated by qualified health physics personnel. When feasible, persons designated as Controllers for a given function will also be assigned as evaluators of that function. Evaluators will record their observations, and provide recommendations on corrective actions to the Chief Exercise Evaluator prior to the scheduled critique. They will critique exercise performance on the basis of standards or requirements contained in the Plant Radiological Emergency Response Plan and Procedures; in the "Actions Expected" portion of the Exercise Message Cards and in the plan for the exercise. They will take steps whenever possible to collect data on the time and motion aspects of the activity observed for post exercise use in designing system improvements. Evaluators will be identified by wearing a BLUE ribbon, arm band, or ID badge. When an Evaluator is serving in a Controller role, he will wear a RED ribbon, arm band, or ID badge.
- Observers from various CP&L components and from other organizations may be authorized on a limited basis to participate in the exercise solely for the purpose of observing exercise activity.
- C. Evaluation and Critique
  - The exercise will be evaluated by Evaluators who will be assigned to key locations and response activities where they will record their observations. Following the exercise, Evaluators will present their findings at critiques as scheduled in Section III.A of this plan.

- The following facilities will be evaluated in addition to the Plant Emergency Plan and Procedures:
  - a. Control Room.
  - b. Operational Support Center.
  - c. Technical Support Center.
  - d. Plant Media Center.
  - e. Emergency Operations Facility.
  - f. Corporate Emergency Operations Center.
  - g. Corporate Media Center
- 3. The following activities will be evaluated:
  - a. Accident recognition, classification, and assessment.
  - Assessment of on-site and off-site radiological consequences.
  - c. Alerting, notification and mobilization activities.
  - d. In plant corrective actions.
  - e. Activation and use of emergency facilities and equipment.
  - f. Use of communications equipment and procedures.
  - g. Preparation of reports, messages, and records.
  - h. Protective actions.
  - i. Public information.
  - j. On-site and off-site radiological monitoring.
- 4. Evaluations will be made on the basis of exercise objectives; standards or requirements contained in the Plant Radiological Emergency Response Plan and implementing procedures; and notations in the "Actions Expected" portion of the Exercise Message Cards for the area evaluated.
- 5. Any deficiency in the Plant Radiological Emergency Response Plan and implementing procedures, training, etc., that is identified through the critique process shall be documented by the Chief Evaluator and corrected by the organizations and individuals who have responsibility for the areas identified. Management controls shall be established to ensure that corrective actions are taken as necessary.

#### D. Exercise Exempt Personnel

Some plant personnel must be exempt from exercise participation in order to maintain vital plant functions such as security, normal operations, chemistry, etc.

- E. General Guidance for the Conduct of the Exercise
  - 1. Simulating Emergency Actions

Since exercises are intended to demonstrate actual capabilities as realistically as possible, participants should act as they would during a real emergency. Wherever possible, action, should be carried out. Only when it is not feasible to perform an action should it be simulated. Any orders given

that for any reason cannot or should not actually be performed should begin with the word "Simulate." For example, the order to put out a fire that is being hypothesized would state: "Simulate discharging the fire extinguisher." Where such actions are being taken, it is suggested that participants inform any controller/evaluators in the area of what action really would be taken had the emergency been real.

#### 2. Avoiding Violation of Laws

Intentional violation of laws is not justifiable during any exercise. To implement this guideline, the following actions must be taken:

- a. All evaluators and potential exercise participants must be specifically informed of the need to avoid intentional violation of all federal, state, and local laws, regulations, ordinances, statutes, and other legal restrictions.
- b. Exercise participants will not direct illegal actions being taken by other exercise participants or members of the general public.
- c. Exercise participants will not intentionally take illegal actions when being called out to participate in an exercise. Specifically, local traffic laws such as speed limits will be observed.
- 3. Avoiding Personnel and Property Endangerment

Participants and evaluators will be instructed to avoid endangering property (public or private), other personnel responding to the exercise, members of the general public, animals, and the environment.

#### 4. Actions to Minimize Public Inconvenience

It is not the intent, nor is it desirable or feasible, to effectively train or test the public response during the conduct of radiological emergency exercises. Public inconvenience is to be minimized.

The actions of federal, state, and county agencies and nuclear power plant operators receive continuous public notice and scrutiny; therefore, the conduct of an exercise could arouse public concern that an actual emergency is occurring. It is important that conversations that can be monitored by the public (radio, loudspeakers, etc.) be prefaced and conclude with the words, "This is an exercise message."

#### 5. Maintaining Emergency Readiness

During the performance of an exercise the ability to recognize a real emergency, terminate the exercise, and respond to the new situation must be maintained. Therefore, the exercise scenario and actions of participants will not include any actions which seriously degrade the condition of systems, equipment or supplies, or affect the detection, assessment, or response capability to radiological or other emergencies.

Actions taken by the participants will also avoid actually reducing plant or public safety. The potential for creating real radiological or other emergencies will be specifically avoided.

If a real emergency occurs during the exercise, requiring the actions of Company personnel, then the exercise will be terminated by the Lead Controller or the Emergency Exercise Director in consultation with appropriate plant management. All messages about the real events will be clearly identified as such. For example, precede a peak message with:

"This is NOT, repeat NOT an exercise message."

### V. COMMAND, CONTROL, AND COMMUNICATIONS

#### A. Site Emergency Coordinator (SEC)

The SEC has immediate and unilateral authority to act on behalf of the Company to manage and direct all on-site emergency operations involving the facility. During the exercise, he will have responsibility also for the simulated emergency exercise operations. The SEC will be located in the Control Room at the beginning of the exercise and will relocate to the TSC upon activation of the TSC.

#### B. Communications

Communication equipment and procedures are described in Plant Emergency Procedures (PEP). The telephone will be the primary means of communications.

#### C. Records

BSEP Emergency Procedures require that plant personnel responsible for maintaining records during an emergency shall provide a copy of those records to the Emergency Preparedness Specialist following an emergency or emergency exercise.

#### D. Exercise Message Card

The "Exercise Message Cards" are prepared by the exercise drill planners/controller prior to the exercise to satisfy the requirements of the exercise scenario. The purpose of the completed form is to initiate the appropriate exercise player response and to keep the exercise action moving according to the scenario and exercise objectives. The messages that are delivered to players during the play of the exercise should allow "free play," i.e., should not tell the players what should be done.

- E. Time
  - All CP&L in-plant exercise participants will report time of incidents, messages, etc., in accordance with time based on the Control Room clocks.
  - Local 24-hour clock time will be used to reference time in all reports and communications.
- F. Message Preamble and Close

The words "THIS IS AN EXERCISE MESSAGE" should be used at the beginning and end of each message.

#### Attachment 1

#### INSTRUCTIONS FOR CONTROLLERS AND EVALUATORS

- 1. Personnel are assigned as controllers or evaluators at all key function areas to monitor and control the exercise. In addition, they will accompany radiological monitoring teams, plant health physics personnel, and maintenance repair/rescue teams.
- 2. The in-plant controllers will be coordinated by the Exercise Lead Controller located in the TSC (Ext. \*). He/she will be responsible for the overall conduct of the exercise scenario. If unable to reach the Exercise Lead Controller, contact the OSC Lead Controller (Ext. \*). Field controllers should contact the Environmental Monitoring Lead Controller in the EOF (Ext. \*) regarding coordination problems or questions.
- 3. Message forms and simulated Control Room data will be used to initiate, modify, and complete the events comprising the overall scenario. Selected controllers will use the message forms to place the scenario events in effect and to trigger responses from the involved emergency response organizations. Each controller will have copies of the messages controlling the portion of the exercise scenario for which he/she is responsible.

Two kinds of messages will be used:

#### Controlling

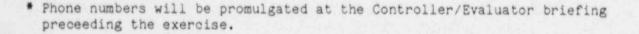
Messages used as a primary means of implementing scenario events by announcing or placing an event in effect by hypothesizing conditions resulting from previous actions.

#### Contingency

Messages used at the discretion of the controllers with the approval of the Exercise Lead Controller in order to maintain the scenario plan continuity or schedule.

Controlling messages will be presented to the designated exercise participant at the time specified in the event schedule. The introller should follow up with an explanation of the message and answer questions to ensure that the participant understands the message.

Controllers will not initially provide information to the participants regarding scenario development or resolution of problem areas encountered. The participants are expected to obtain information through their own organization and exercise their own judgment in determining response actions and resolving problems.



- 4. Note that the scenario events are hypothetical. Any portions of the scenario depicting plant system operational transients are simulated events. No Control Room actions, or reactions involving operation of plant systems or affecting generation capability, will be initiated. All exercise scenario messages will be previewed by and ended with the words "THIS IS AN EXERCISE." Controllers stationed at areas vital to maintaining generating capability should be especially aware and take extra precautions in issuing messages or giving instructions regarding the scenario events.
- 5. Required controllers will have the time-related plant and radiological parameters of the exercise scenario. This information should be issued upon request to the appropriate exercise participants by either the Control Room controller or controllers accompanying the radiological monitoring field teams.
- 6. Some exercise participants may insist that certain parts of the scenario are unrealistic. The controllers and evaluators have the authority, with the approval from the lead controllers, to clarify any questions regarding scenario content. In some cases, it may be necessary to exercise "controller's prerogative" and say, "This is due to exercise requirements" to preserve the continuity and objective of the exercise.
- 7. Prior to commencement, all telecommunications should be tested to ensure satisfactory communications between the lead controllers and all other controllers.
- 8. Controllers will commence their assignments at assembly locations for players that they are to observe or as directed by the lead controllers.
- 9. Players are not allowed to introduce problems or events into the exercise or its scenario.

#### CONTROLLER'S AND EVALUATOR'S RULES

- 1. Know the overall Controller's Organization.
- 2. Identify the players by name and function.
- Identify yourself at all times to all players. Wear identification as provided by CP&L.
- Identify the phone (or radio for field teams) you will use to maintain communications with lead controllers.
- Position yourself to maximize your effectiveness in issuing messages and observing the players.
- 5. Be sure you understand the player's scenario script and the master scenario.
- 7. Keep the play on schedule by checking your script.



- 8. Issue the message on time. Make sure the players understand it.
- 9. Remember to call the Exercise Lead Controller to report on status of players' actions if off schedule or if in doubt about what to do. Call for advice if players depart significantly from the scenario script.
- 10. Allow the players reasonable flexibility to perform their functions and demonstrate their skill, knowledge, and initiative.
- 11. Identify the federal evaluators(s). Make sure they are reasonably aware of all your actions and those of the players.
- 12. Make notes on good and bad points of players' actions, the strengths and weaknesses, and areas for improvements.
- 13 Attend the post-exercise critique session to provide your comments and recommendations to the Lead Controller.
- 14. Identify the players' leaders. Work with them as appropriate.
- 15. If a real emergency occurs and this affects the players, call off your portion of the exercise, and notify the Exercise Lead Controller immediately.
- 16. Be at your post at least 20 minutes prior to any player action commencement. Set yourself up.
- 17. The federal evaluators will not issue "surprise" messages or direct "surprise" actions at the players. They must work through the Exercise Lead Controller. This is essential for the success of the exercise.
- 18. Controllers and federal evaluators do not have to follow the radiation exposure control practices appropriate for the simulated radiation levels. However, the players <u>must</u> follow the radiation protection rules. Controllers and evaluators will be exempt from accountability and have access to all areas.
- 19. Do not issue contingency messages without clearance from the Exercise Lead Controller.

#### DON'Ts

- 1. Don't leave your post at key times.
- 2. Don't prompt the players to take action.
- 3. Don't coach the players.
- 4. Don't criticize the players' actions during the play.
- Don't forget to call the lead controllers to seek advice or help as necessary.

- 6. Don't allow the media/other external influences to distract the players. No interviews with players are allowed.
- 7. Don't allow simulation when equipment and facilities are available except for causing flow discharge of fire extinguishers, etc.

NOTE

All participants will comply with radiation exposure control practices for actual conditions existing at the station at the time of the exercise.

#### INSTRUCTIONS AND RULES FOR PLAYERS

All players (at least the leaders of the player groups) must read and follow the rules given below. This is important to the successful demonstration of emergency response capabilities.

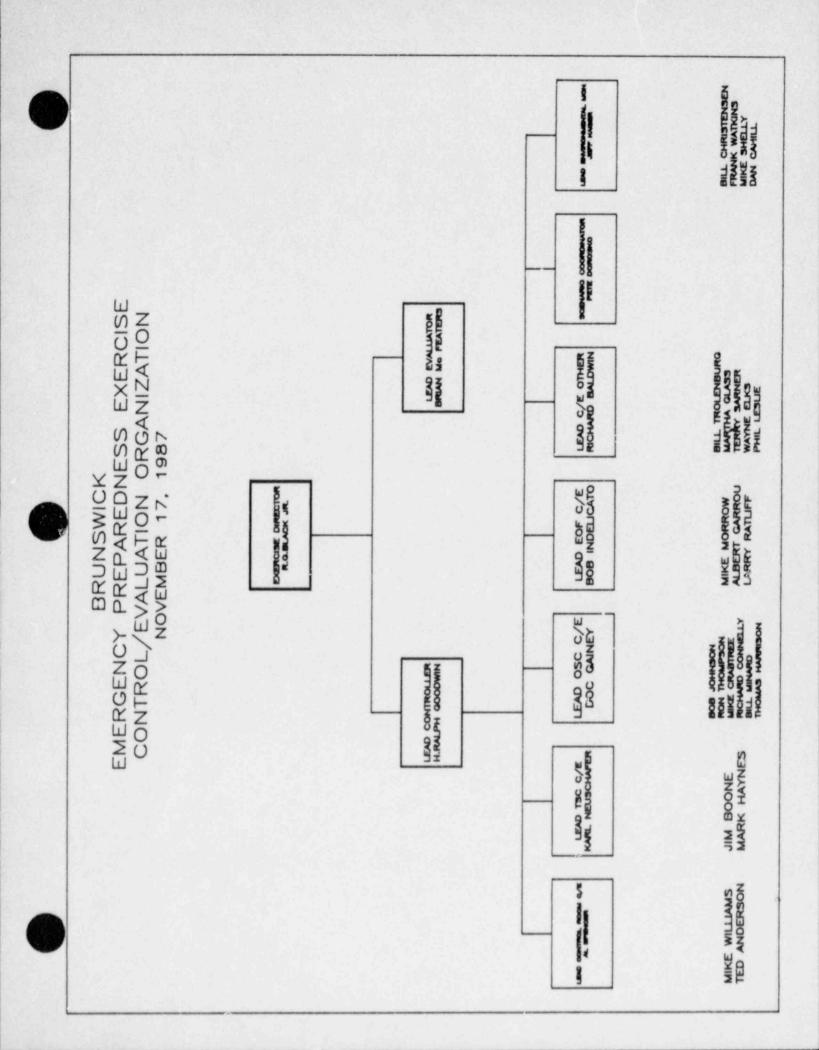
- 1. Identify your controller by his identification badge. These controllers are also evaluators.
- NRC/FEMA (federal agencies) evaluators are also present. Identify them by their identification badges. They are here to judge players' performance and approve the emergency plan.
- Visitors may be present. Identify them by their identification badges.
- 4. Identify yourself by name and function to the exercise controllers and the NRC/FEMA evaluators. This will be helpful.
- 5. <u>Play out all actions, as much as possible</u>, in accordance with your emergency plan and procedures as if it were a real emergency. Unless authorized by the controller, you should <u>not</u> simulate your actions. If authorized to simulate an action, tell the evaluator how and when you would actually do them.
- 6. Periodically <u>speak out loud</u>, identifying your key actions and decisions to the controller and federal evaluators. This may seem artificial, but it will assist in the evaluation process and is to your benefic.
- 7. If you are in doubt, <u>ask</u> your controller for clarification. The controller will not prompt or coach you.
- 8. The controller periodically will issue messages or instructions designed to initiate response actions. You <u>must</u> accept these messages immediately. They are essential to your successful performance.
- 9. If the controller intervenes with your play, it is for a good reason. Obey your controller's directions at all times. This is essential to the overall success of the exercise.
- If you disagree with your controller, you can ask him to reconsider or consult with the controller's command center as time permits. You must, however, accept his/her word as final and proceed.
- 11. Respond to the controller's questions.
- 12. You <u>must not</u> accept any message/instruction from the federal evaluators. If they want to initiate actions, test you abilities, or give you "surprises," <u>they must work through your controller</u>. This is essential to the overall success of the exercise.

- 13. You must play as if radiation levels actually are present, in accordance with the information you have received. This will require that you wear radiation dosimeters, anti-contamination clothing, observe good radiation protection practices, and be aware of and minimize your radiation exposure. Identify the individuals in your emergency response organization responsible for informing you of these items. Follow their instructions.
- 14. The controllers and federal evaluators are exempt from acting as if radiation levels from the emergency exercise are present. Do not let them confuse you or cause you to act unwisely.
- 15. If you are entering normal nuclear station radiation areas, observe all rules and procedures. No one (even the controller and federal evaluators) is exempt from radiological practices and procedures required by actual conditions.

NOTE: DO NOT ENTER HIGH RADIATION AREAS IN THE PLANT WITHOUT AUTHORIZATION FROM THE CONTROLLER. FOLLOW ALARA PRINCIPLES.

- Demonstrate knowledge of your emergency plan, emergency operations, and procedures.
- 17. Utilize status boards, log book, three-part interoffice memos, etc., as much as possible to document and record your actions, instructions, and reports to your co-players. This is very important. Remember, "Put it in writing."
- 18. Do not enter into conversations with the visitors.
- 19. You may answer questions directed to you by federal evaluators. If the question is misdirected to you or you do not know the answer, refer them to your lead player or the controller.
- 20. Keep a list of items you feel will improve your plans and procedures. Provide this to your lead player. Lead players will ensure these are considered. If necessary, they will identify them to the controller. Remember one of the main purposes of the exercise is for you, the players, to assure yourself that you are prepared adequately. Areas for improvement or lessons learned, when identified, will improve your overall emergency planning and preparedness.
- A critique of the exercise will occur after the exercise is terminated. Provide your input to your lead player or the controller. This will help in the overall evaluation the controller will present at the critique.





# Exercise Basics

Date: NOU. 17 19	87 Begin Time: 0800	End Time:	1500
Location(s): Beur	uswick		
Announced	Full Scale	Max. EAL	_ Site Emergency
Unannounced	K Small Scale	×	General Emergency

		Exte	nt of	r Pa	rtic	ipat	ion	Not	ific	ation	Act	ivation
Participants	Not Involved	Limited	Full Play	Controllers	Evaluators	Observors	Simulated	Actual	Simulared	Start/Finish	Actual	Pre-staged
CP&L Site		-	×	X	X	X	100		S	1 ss	X	X
CP&L Offsite		X	1	X	X	X	+	XXX			10	×
CP&L Corporate		X	18	X	X	X	1	12			1000	0
Counties	X					-	-	10			1000	<u> </u>
State	×							102			10.00	-
NRC Resident	X		. 68					1 183			10000	100
NRC Ops Center		X						1 100		X	X	
NRC Site Response Team		X										8
FEMA		X						1000			1	1000
Fire Dept.			X	X	X			X				X
Ambulance	X			30								
Hospital /	X		-					1000				CENTRA
Agreement Physician	X							1.00				
Media	X						1					
							-	-	-			
							-					
			-								+	
and the second sec												



(87-3HRG/pcj)



- 12		Ext	ent	1	Fre	quen	cy	Tim	e	So	urce
Non-CP&L Activities	Not Tested	Simulated	Partial	Full	One Time	Every Time	Specific Time	Real Time	Compressed	Players	Scenario
Sheltering	X	1		10		- Harrison	1.			-	S
Evacuation	X										
Access Control	X							-			
Use of KI	X							1			
Fire Department				X	×		×	1	X	1	X
Ambulance/ Medical	×										
Ambulance Contam. Control	X										
Hospital Contam. Control	X										
Agreement Phys. to Site	X										
News Release	X										
Press Conferen.	V										

	procession and a second	and shares in the same of the		and the second division of the second divisio		
<u>Scenario</u>	Actual	Scenario	Low Level	High Level	Adverse	
Meteorology	1			1-		
Onsite // Radiation						
Onsite Contamination						
Onsite Samples						
Plume Radiation						
Plume Iodine	1	-		-		
Plume Contamination	T					
		3 C				



(87-3HRG/pcj)

		Mar	ning		5	Setur	, 	E.
Facilities	Not Activated	× Single Shift	Multiple Shift	Augmentation	Simulated	Actual	Pre-staged	Alternate
Control Room		X			0,	-	X	4
OSC		X				X		
TSC		X				X	8012	
EOF		X				X	DOM:	
Plant Media Ctr		X					X	
Corporate							PERCH	
Media Center		×	1.1.1			1.1	×	
CEOC		X					X	
CP&L Mobile Lab	X	100					198	
State Mobile Lab	X							
Hospital	X							
SERT/FEOC	X							
SEOC	X							
Simulator	X							
ERFIS	X							

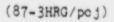


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	Extent				Fri	equer	ncy	Tin	ne	Sou	rce
CP&L Activities	Not Tested	Simulated	Partial	Full	One Time	Every Time	Specific Time	Real Time	Compressed	Players	Scenario
Accident Assessment				×		×		X		X	0
EAL Classification				×		×		×		×	
Notification				X		X		X		X	
Assembly			X		X			10		X	
Accountability		1	X		×			X		Î	
Sheltering	X				1-0-			1-2-		+*	
Evacuation			X		X			X		X	
Prot. Area											
Access Control			1979	X		X		X		X	
Use of											
Dosimetry			1	X		X		X		X	
Use of KI	X							1			
Use of Protect.											
Clothing				X		X		X		X	
Use of SCBA				×		X		X		X	
Use of					1					2	
Respirators				×	12.23	X		X		X	
Source Term										1	
Determination				X		X		X		X	
Dose Assessment				X		X		X		X	
Offsite Protect.											
Action Recommend.			122	×		X		X		X	
Fire Brigade				×	X				X		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
First Aid Team	X		1						-		~
Decontamination	Y										
Remote Monitor/											
Decon	X				and the second						
Security			X			X		X		X	
PASS Sample		X	-			-				X	
Other Samples		Y									
lab Analysis		X									
Onsite Surveys				X		V		X	*****	V	
Offsite Surveys			X			X		S		C	
Press									-	-	
Conference			X			X		X		×	
fedia Calls						X		2			V
lews Release			X			X		2		1.7	
Rumor Control	Y							~			
	0		X			X				X	
Recovery			Y					X		1 2 1	





### INITIAL CONDITIONS

Brunswick Unit 1

Unit 1 is in cold shutdown.

Brunswick Unit 2

Unit 2 is at 100% power. The plant is stable and 2C CSW pump is out of service due to motor failure.

Due to a bad modem at the BSEP Meteorological Tower, access to weather data from the tower is not possible. Repairs to be made by 1500 hours on November 17, 1987.





#### NARRATIVE SUMMARY

This exercise is initiated by a seismic event which damages reactor internals resulting in blockage of coolant flow to a small percentage of fuel assemblies. This results in fuel element heat up and ultimate fuel cladding failure. The main steam line radiation monitors will start showing an increase approximately one hour into the event.

The diesel generator fuel oil storage tank will also be damaged by the seismic event. Approximately one hour and forty-five minutes into the exercise, a fire will be reported at this tank. Off-site assistance will be required for the fire.

The fuel cladding damage will result in main steam line isolation valve closure and reactor scram signals three hours into the exercise. One main steam line will fail to isolate and all control rods will not fully insert. There will be some increase in radioactivity within the turbine building due to the continued steam flow to the condenser. There will be no off-site radiological consequences as a result of this event. Reactor power will be approximately 10%. The Standby Liquid Control System (SLC) will be initiated to shutdown the reactor.

At three hours and forty-five minutes into the event, it will be discovered that the SLC discharge valve has failed. Activities required for a repair entry will be initiated at this time.

The main steam line that failed to isolate will be closed four hours into the exercise. The reactor will not be shutdown at this time due to failure of all rods to insert and failure of the SLC System. This will result in using SRV's to reject heat from the reactor to the suppression pool and containment heat up.

All control rods will be fully inserted five hours into the exercise. Simultaneously with the control rod insertion, a break will occur in the scram discharge volume header. This results in releasing reactor coolant, directly into secondary containment with a release path from the main stack via the Standby Gas Treatment System. The Environmental Monitoring Team will provide off-site radiological assessment of this release. The exercise will be terminated when the scram discharge volume header is isolated and recovery actions are initiated.

#### UNUSUAL EVENT

- 0800 Seismic event annunciator alarms, seismic monitoring confirms earthquake.
- 0900 Main steam line high rad. annunciator is alarming for Unit 2. This is giving an early indication of fuel damage in Unit 2.
- 0945 A.O. reports a fire at Fuel Oil Storage Tank. This event is a result of the seismic event and will require assistance from off-site fire department.

#### ALERT

- 1045 Fire at Fuel Oil Storage Tank has been extinguished.
- 1100 The following conditions occur:
  - 1. Main steam line Hi Hi Rad trip.
  - 2. B main steam line MSIV's do not close.
  - 3. Reactor power remains at 10% with some control rods not inserted.

The Control Room Operator should begin injecting the Standby Liquid Control System (SLC) per EOP-1.

1145 A.O. discovers a large leak between the body and bonnett on the SLC discharge valve (2C41-F005). Normal injection path is available for SLC.

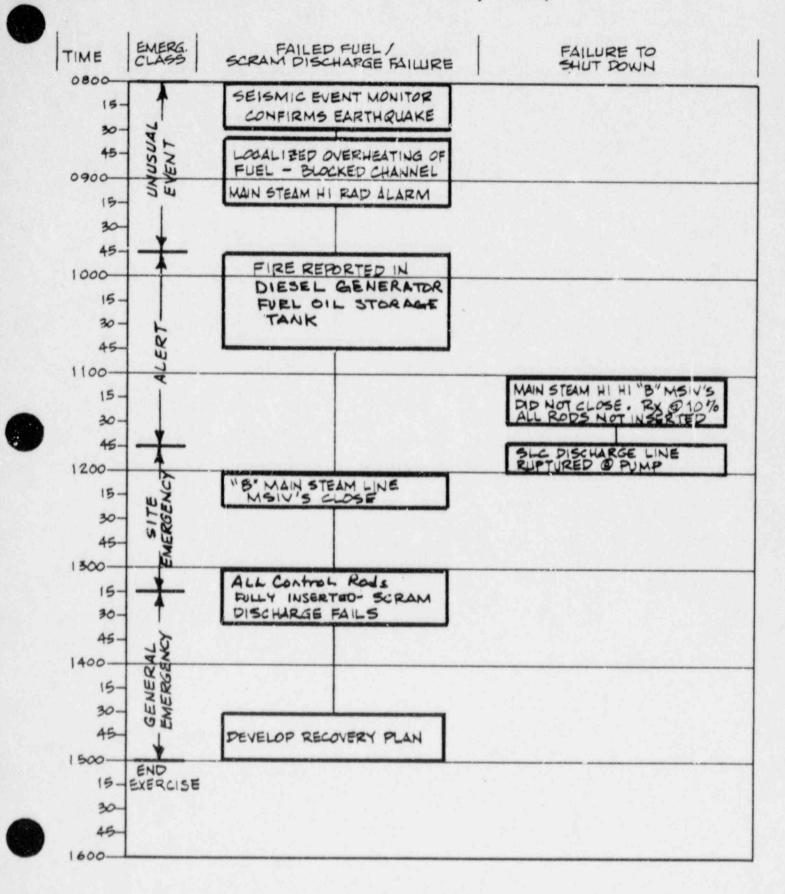
#### SITE EMERGENCY

- 1145 Declare site emergency due to a failure to scram and failure of the SLC.
- 1200 B main steam line MSIV's have been closed.
- 1215 Initiate repair activities on SLC discharge valve (2C41-F005).

#### GENERAL EMERGENCY

- 1300 A.O. reports a break in the south scram discharge volume header.
- 1305 Release of radioactive material outside secondary containment from the main stack via the Standby Gas Treatment System.
- 1430 Scram discharge volume header has been isolated. Plans for recovery operation will begin.

BSEP EMERGENCY PREPAREDNESS EXERCISE NOVEMBER 17, 1987



CEPIP-18 Rev. 3 June 1987

CP&L EXERCISE MESSAGE CARD

BSEP Plant

24

Message	No.	1	Date	11/17/87	Time	0800	
MESSAGE	FOR	SOS					

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

1. Seismic Event Annunciator UA 28 window 6-4,

ACTIONS EXPECTED:

- 1. Enter APP for Seismic Event, perform evaluation.
- 2. Determine magnitude of Event to be .07g.
- 3. Declare UE.
- 4. Commence Unit S/D per GP-05

FOR CONTROLLER USE ONLY



CEPIP-18 Rev. 3 June 1987

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No.	2	Date	11/17/87	Time	0810
			And the second		

4

MESSAGE FOR: Shift Foreman

FROM: CONTROLLER (CONTINGENCY)

# MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

The Corporate Meteorological Center calls you to report earthquake activity of unknown magnitude in the Wilmington area with some damage reported.



ACTIONS EXPECTED:

FOR CONTROLLER USE ONLY

USE IF UNUSUAL EVENT HAS NOT BEEN DECLARED BY 0810.

### CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No. 2a (Contingency) Date 11/17/87 Time 0830

MESSAGE FOR: SOS

FROM: CONTROLLER (LEAD)

# MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

Declare an Unusual Event due to alarm on seismic monitor and confirmation of earthquake. (PEP-02.1 14.1)



1

### ACTIONS EXPECTED:

Declare Unusual Event

FOR CONTROLLER USE ONLY

To be used only with approval of the exercise lead controller.

CEPIP-18 Rev. 3 June 1987

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CP&L EXERCISE MESSAGE CARD

19					ESEP
					Plant
No.	3	Date	Time	0900	

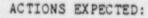
MESSAGE FOR: SOS

Message

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

1. Main steam line B: HiRad Annunciator is alarming.



- 1. Reduce power per AOP 05.3 Main steam line high radiation.
- 2. Follow actions of APP for main steam line Hi Rad.

FOR CONTROLLER USE ONLY



CEPIP-18 Rev. 3 June 1987

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message	No.	4	Date	11/17/87	Time	0945
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MESSAGE FOR: Passerby

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

You observe a large fire burning in the area surrounding the No. 2 Fuel Oil Storage Tank.

ACTIONS EXPECTED:

Report fire to the Control Room.

FOR CONTROLLER USE ONLY

If no one is available to receive this message then call it in to the Control Room.

### CP&L EXERCISE MESSAGE CARD

Plant

Message No.	Date	Time
MESSAGE FOR:		

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

MESSAGE 5 HAS BEEN DELETED.



ACTIONS EXPECTED:

FOR CONTROLLER USE ONLY



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CEPIP-18 Rev. 3 June 1987

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message	NO.	0	Date	11/17/87	Time	0947

MESSAGE FOR: Controller

FROM: SCENARIO WRITING TEAM

FOR CONTROLLER USE ONLY:

The Shift Fire Commander should respond to fire scene in approximately 10 minutes after sounding the fire alarm. The fire brigade should respond within 15 minutes. The Shift Fire Commander should establish a command post upwind of the fire scene. Fire hoses should be deployed, charged and water discharged from hose nozzles. The use of AFFF should be simulated.

The fire brigade should not be allowed to extinguish the fire until after the arrival of the off-site fire department. The off-site fire department should be utilized to their fullest capacity to assist with extinguishment and exposure protection.

As necessary controllers should observe that personnel safety is ensured. It may be necessary to temporary secure plant fire brigade activities while awaiting plant access by the off-site fire department. If this is necessary it should be done in a manner which will not adversely impact the demonstration of the off-site fire department/on-site fire brigade interface.

The fire should have been extinguished and all objectives demonstrated by approximately 1045 hours.





#### CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No 7 Date1/17/87 Time1030	
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MESSAGE FOR: Media Center (Corporate if Plant not activated)

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

To the Plant Media Center Controller:

You are to call the Media Center and represent yourself as the local media (do not use real names of local media people ... Tim Smith or Jane Jones should be used). Ask the following questions:

- Why has the Southport Fire Department been called to the Plant?
- Is there a fire such as occurred at Chernobyl burning there?
- Should residents living near the plant evacuate?

ACTIONS EXPECTED:

Respond to Questions:

#### CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No. 7A (Contingency) Date 11/17/87 Time 1035

MESSAGE FOR: Site Emergency Controller

FROM: CONTROLLER (LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

Based on fire potentially affecting safety-related equipment declare an ALERT.

ACTIONS EXPECTED:

Declare Alert and implement appropriate procedures.

FOR CONTROLLER USE ONLY

To be used only with approval of exercise lead controller.

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Date 11/17/87 Time 1100	Message	No.	8	Date	87	Time	1100
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MESSAGE FOR: SOS

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

- 1. Main Steam Line Hi Hi Rad. Trip.
- 2. "B"Main Steam Line MSIV's did not close.
- 3. All Control Rods not full inserted.

ACTIONS EXFECTED:

- 1. Follow actions per EOP-01 (Path 1 to Level Power Control).
- 2. Attempt to Isolate B main steam line.

CP&L EXERCISE MESSAGE CARD

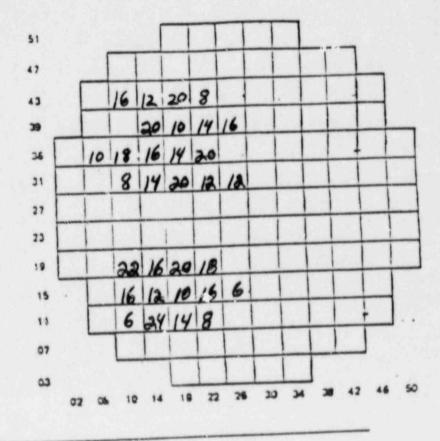
> Unit 2 Plant

Date 11/17/87 Time 1100 Message No. 8A

MESSAGE FOR: CONTROL ROOM CONTROLLER

FROM: EXERCISE LEAD CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"



ACTIONS EXPECTED :

None.

FOR CONTROLLER USE ONLY

USE AS NECESSARY TO ANSWEAR PLAYER QUESTIONS.



CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No.	9	Date	 Time	1140
MESSAGE FOR	202			

FROM: CONTROLLER

## MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

 A large leak has occurred at the flanged connection of 2-C41-F005 (SLC discharge).

ACTIONS EXPECTED:

- 1. Declare site emergency due to failure to scram and failure of SLC.
- 2. Emiter LEP-03 (Alternate Boron Injection Methods).

CP4L EXERCISE MESSAGE CARD

BSEP Plant

Message	No.		Date	11/17/87	Time	1145-1300	
MESSAGE	FOR :	Repair Team					

FROM: CONTROLLER (See below)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

 Clearance has been completed.
 Visual observation indicates a leak between the body and bonnett on 2 C41-F005 (SLC Discharge).

ACTIONS EXPECTED:

Initiate repair.

FOR CONTROLLER USE ONLY

Give to players upon arrival at valve mock up. \*Use Valve mock up.\*

#### CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No. 10A (Contingency) Date 11/17/87 Time 1155

MESSAGE FOR: Site Emergency Coordinator

FROM: CONTROLLER (LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

Declare Site Emergency due to failure to scram and failure of SLC.

ACTIONS EXPECTED:

Declare Site Emergency.

FOR CONTROLLER USE ONLY

To be used only with approval of exercise lead controller.



CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message	No.	11	Date	11/17/87	Time	1200
MESSAGE	FOR:	SOS				

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

1. "B" Main Steam Line MSIV's have been closed.

ACTIONS EXPECTED:

- Recognize that heat from the reactor is being rejected to the suppression pool.
- 2. Enter containment control section of EOP-01

#### CP&L EXERCISE MESSAGE CARD

BSEP Plant

2.

Message	No.	12	Date	11/17/87	Time	1205

MESSAGE FOR: Emergency Repair Director

FROM: CONTROLLER (CONTINGENCY)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

Initiate team to repair valve #2 C41-F005 - (SLC Discharge).

ACTIONS EXPECTED:

- 1. Damage Control Director notifies OSC to muster a repair team.
- 2. Notify Control Room to prepare Clearance for repair of #2 C41-F005.

FOR CONTROLLER USE ONLY

Use only if decision has not been made to repair 2 C41-F005 (SLC Discharge).

CP&L EXERCISE MESSAGE CARD

BSEP Plant

the second

Message No Dat	te 11/17/87	Time1300
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MESSAGE FOR: Plant Media Center Controller

FROM: CONTROLLER (LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE" To the Plant Media Center Controller:

You are to call the Plant Media Center and represent yourself as the local media (do not use real names of local media people ... Tim Smith or Jane Jones should be used). Ask the following questions:

- "THIS IS AN EXERCISE MESSAGE." Who is responsible for ordering an evacuation? By what criteria is the decision made to order an evacuation?
- Are residents being evacuated at this time? And if so, when will they be allowed to return?
- What precautionary measures should residents living beyond evacuation zones observe?
- What is being done to protect the homes and property these evacuees are being forced to leave behind?
- What accommodations will be made for residents if their homes are isolated indefinitely by contamination?
- Have there been any traffic accidents during the accident?
- Did people really know what to do before all this happened?

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No.	14	Date	11/17/87	Time	1300	
MESSAGE FOR:	SOS					

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

1. All control rods indicated fully inserted.

2. AO reports break in south scraw discharge volume header.

ACTIONS EXPECTED:

1. Exit the Level Power Control Procedure and enter end Path Procedures.

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message N	io	14	Date	11/17/87	_ Time	1300
MESSAGE F	OR: SOS					

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

1. All control rods indicated fully inserted.

2. AO reports break in south scraw discharge volume header. Water and steam spraying From South west Scram discharge volume headen



ACTIONS EXPECTED:

1. Exit the Level Power Control Procedure and enter end Path Procedures.



#### CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No. 14A Date 11/17/87 Time 1320

MESSAGE FOR: Site Emergency Coordinator

FROM: CONTROLLER (EXERCISE LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE" Declare General Emergency due to release.

ACTIONS EXPECTED:

Declare General Emergency.

FOR CONTROLLER USE ONLY

×.

To be used only with approval of exercise lead controller.

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message	No.	15	Date	11/17/87	Time	After 1300

MESSAGE FOR: Plant Media Center Controller

FROM: CONTROLLER (LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

- What about jobs? Should a release of radioactivity isolate businesses as well as homes for a long time, will you find new jobs for displaced workers?
- How did the fire at the plant differ from the one at Chernobyl?
- What amounts of radiation were the Southport firefighters exposed to?
- Will CP&L replace fire department equipment which was contaminated during the fire?

ACTIONS EXPECTED:

Respond to questions.

CP&L EXERCISE MESSAGE CARD

\_\_\_\_\_\_ Plant

Message No	16	Date	11/17/87	Time	1400
	The local design of the lo	Dave		lime	1400

MESSAGE FOR: Plant Media Center Controller

FROM: CONTROLLER (LEAD)

## MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

To the Plant Media Center Controller:

You are to call the Plant Media Center and represent yourself as the local media (do not use real names of local media people ... Tim Smith or Jane Jones should be used). Ask the following questions:

"THIS IS AN EXERCISE QUESTION:"

- I understand that there has been a release of radiation at the Brunswick Plant. Is this another Chernobyl?
- Where can I get more information about what is happening at the Plant? And how can the public find out what's going on?
- What precautionary measures have been taken to protect the public?
- I'm hearing a lot of unconfirmed reports about what is going on at the Plant. Why should officials in the Company's Raleigh Office know more than people in the Southport area about conditions in the Emergency Planning Zone?
- What about reports that hundreds of workers may have been injured at the Plant because of some kind of explosion? If there are injured, where are they being treated? Do local hospitals have Emergency Room Staff and Facilities to handle injuries?
- Just what kind of damage has occurred at the Plant? What is the condition of the fuel, the Reactor, and the Reactor Coolant Systems? Is there the risk of a meltdown?
- Do people who treat contamination victims run the risk of being contaminated themselves?
- Do local health facilities have the expertise to treat radiation sickness? For example, could bone-marrow treatment be performed locally?

CP&L EXERCISE MESSAGE CARD

BSEP Plant

2 ....

Message No. \_\_\_\_\_ Date \_\_\_\_\_ Time After 1400

MESSAGE FOR: Plant Media Center Controller

FROM: CONTROLLER (LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE" (Continued)

- What about long-term contamination? How long will it take before the full effects of contamination could be known?
- When the sirens were sounded to alert the Public, did all the sirens sound? If they did not, how did people get the message?
- When will the residents be evacuated?
- How many residents evacuated and where have they all gone?
- Have you heard from the President of the United States or any other Government Official from Washington?
- Is the Plant keeping State and local officials informed about current status and project conditions?

FOR CONTROLLER USE ONLY

#### ACTIONS EXPECTED:

As you ask the above questions, you may further identify other questions which would be appropriate to ask. Please "free play" the asking of questions which will stimulate the Plant Media Center in their assigned emergency role.



CP&L EXERCISE MESSAGE CARD

BSEP Plant

100

Message No. 18 Date 11/17/87 Time 1430

MESSAGE FOR: Plant Media Center Controller

FROM: CONTROLLER (LEAD)

#### MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

To the Plant Media Center Controller:

You are to call the Plant Media Center and represent yourself as the local media (do not use real names of local media people ... Tim Smith or Jane Jones should be used). Ask the following questions:

#### "THIS IS AN EXERCISE QUESTION:"

- Why does it take so long to get information from you? The incident at the Plant released radiation hours ago, why can't you confirm those reports sooner? Won't a Geiger Counter tell me what I need to know?
- How about insurance? What's the status of this "Price-Anderson Act?" How much coverage does it offer and for whom? People? Power Plants?
- We have heard reports that if people who evacuated the area around the Brunswick Plant, CP&L will pick up the cost in full? What is that address?
- I've been hearing reports that some white puffs of smoke have been coming out of the Plant? Is there another problem which you haven't told us about?
- Will CP&L have any problems meeting the electricity needs of all your customers if this Power Plant must shutdown indefinitely?
- There are several Dairy Farms within fifty miles of the Plant. Whose responsibility is it to gauge the impact of an accident on agriculture?
- What has this emergency taught you? What do you know that you did not know before?
- We have heard reports that the National T.V. Networks have been given special or exclusive access to the Plant for T.V. coverage. Would you please comment on this report?





18-22

CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message	No		19	Date _	11/17/87	Time	1430	
MESSAGE	FOR:	SOS						

FROM: CONTROLLER

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE"

1. Reactor Scram has been reset.

0

ACTIONS EXPECTED:

1. Report to TSC that scram discharge volume break has been isolated.



CP&L EXERCISE MESSAGE CARD

BSEP Plant

Message No.	20	Date	11/17/87	Time	1430	
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MESSAGE FOR: Plant Media Center Controller

FROM: CONTROLLER (LEAD)

MESSAGE/SIMULATED PLANT CONDITIONS: "THIS IS AN EXERCISE MESSAGE" (Continued)

- Have you uncovered any defects that may be common to some or all of your other Nuclear Plants? What impact would this emergency have on the operation of these other plants?
- What kind of assistance from outside agencies are you getting in your efforts to to restore the Plant?
- How do you rely on local, State, and county officials to cooperate during this emergency?
- How responsive have these agencies been so far to your request for assistance?

FOR CONTROLLER USE ONLY

ACTIONS EXPECTED:

As you ask the above questions, you may further identify other questions which would be appropriate to ask. Please "free play" the asking of questions which will stimulate the Plant Media Center in their assigned emergency role.



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

## NA - Not available

	HPCI Flow (gpm)	1 0
	Infor Flow (gpm)	10
	Core Spray A Flow (gpm)	10
	RHR A Flow (gpm)	10
4	RCIC Flow (gpm)	0
	Core Spray B Flow (gpm)	0
_6	RHR B Flow (gpm)	10
7	SLC Injecting	IN
_ 8	CRD Flow (gpm)	100
	APRM Z	1100
	Reactor Pressure (psig)	1005
11		1 187
12	Main Stack Flow Rate (scfm)	100,000
-	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	
14	(scfm)	172,000
	Rx. Bldg. Negative Press	1
15	(inches of water vacuum)	25
16	Suppression Pool Level (in)	- 29
17	Drywell Pressure (psig)	.30
18	SBGT Flow A (scfm)	1 0
19	SBGT Flow B (scfm)	0
20	Drywell H, 4409 (% conc.)	0
21	Drugell H" 4410 (7 conc.)	0
22	Deverall 0° 4409 (7 cone)	1.2
23	Drywell 0, 4410 (% conc.)	1.6
24	AOG System Flow (scfm)	40
	Off-Site Power Available	Y
	Main Stack Gas Monitor	
26	(uCi/sec)	5.0E+1
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	2.4E+0
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	12
29	D22-RM-4196 - 57 ft E1.	40
	Q22-RM-4197 - 23 ft E1.	
31	D22-RM-4198 - 57 ft EJ.	10
32	Drywell Temp (*F)	115
	Suppression Pool Temp (°F)	87
-	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cj/m)	1.000
35	Iodine (cpm)	200
36	Noble Gas (cpm)	100
-	The second strength of	

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	11
	Rx. Bldg. 50 ft Sample	T
	Station	2
39	Rx. Bldg. 50 ft Airlock	2
	Rx. Bldg. North of Fuel	T
40	Pool	2
41	Between Fuel Pool and Drywell	Downsca
	Turbine Bldg. Sample	T
Contraction of the local distribution of the	Station .	0.2
43	SJAE A (mR/hr)	330
44	SJAE B (mR/hr)	260
45	Rx. Bldg. Ventilation Monitor (mR/hr)	
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent	T
	Flow (scfm)	1
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

Time \_0815

-		
	HPCI flow (gpm)	10
2	Cole Spray A Flow (gpm)	10
_3	AHR A Flow (gpm)	LO
4	RCIC Flow (gpm)	0
5	Core Spray B Flow (gpm)	0
	RHR B Flow (gpm)	0
7	SLC Injecting	IN
8	CRD Flow (gpm)	60
9	APRM Z	100
10	Reactor Pressure (psig)	1,005
	Reactor Level (in)	1187
	Main Stack Flow Rate (scfm)	166,000
	Turbine Bldg. Roof Vent	1901000
13	Flow (scfm)	14,000
-	Rx. Bldg. Roof Vent Flow	111000
14	(scfm)	172,000
	Rx. Bldg. Negative Press	1112,000
15	(inches of water vacuum)	- 10
	Suppression Pool Level (in)	25
10	Drywell Pressure (psig)	- 29
10	Drywell Fressure (psig)	.30
10	SBGT Flow A (scfm)	0
	SBGT Flow B (scfm)	0
20	Drywell H, 4409 ('. conc.)	0
21	Drywell H 4410 (I conc.)	0
22	Drywell 0, 4409 (% conc.)	1.2
23	Drywell 0, 4410 (% conc.)	1.6
	AOG System Flow (scfm)	40
	Off-Site Power Available	Y
	Main Stack Gas Monitor	
	(uCi/sec)	5.0E+1
	Turbine Bldg. Vent Monitor	
	(uCi/sec)	2.4E+0
	DRYWELL HIGH RAD MONITOR	R/hr
	D22-RM-4195 - 30 ft E1.	12
	D22-RM-4196 - 57 ft E1.	40
301	Q22-RM-4197 - 23 ft E1.	10
	D22-RM-4198 - 57 ft E1.	35
	Drywell Temp (°F)	115
331	Suppression Pool Temp ("F)	87
	Suppression Pool Temp (°F) RX. BLDG. ROOF VENT RAD	and the second second
	MONITOR	
	Particulate (cpm)	1,000
	Iodine (cpm)	200
36	Noble Gas (cpm)	
	The search of the party of the second s	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	11
20	Rx. Bldg. 50 ft Sample Station	
the second se		12
27	Rx. Bldg. 50 ft Airlock	12
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downscale
42	Turbine Bldg. Sample Station	
And and a second second	SJAE A (mR/hr)	330
44	SJAE E (mR/hr)	1 260
distant in the local distance in the local d	Rx. Bldg. Ventilation Monitor (mR/hr)	1
	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent Flow (scfm)	I
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I



12 14

· 124

### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT \_2\_)

## Operable Inoperable Standby Running Yes No Isolated

NA - Not available

1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	0
4 RCIC Flow (gpm)	0
5 Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	0
7 SLC Injecting	IN
8 CRD Flow (gpm)	60
9 APRM Z	100
10 Reactor Pressure (psig)	1,005
11 Reactor Level (in)	186
12 Main Stack Flow Rate (scfm)	66,000
Turbine Bldg. Roof Vent	
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	
14 (scfm)	172,000
Rx. Bldg. Negative Press	1
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	-29
17 Drywell Pressure (psig)	.30
18 SBGT Flow A (scfm)	10
19 SBGT Flow B (scfm)	0
20       Drywell H, 4409       (% conc.)         21       Drywell H, 4410       (% conc.)         22       Drywell 0, 4409       (% conc.)	0
21 Drywell H, 4410 (% conc.)	0
22 Drywell 0, 4409 (% conc.)	1.2
23 Drywell 0, 4410 (% conc.)	11.6
24 AOG System Flow (scfm)	40
25 Off-Site Power Available	IY
Main Stack Gas Monitor	
26 (uC1/sec)	5.0E+1
Turbine Bldg. Vent Monitor	
27 (uCi/sec)	2.4E+0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	12
29 D22-RM-4196 - 57 ft E1.	1 40
30 D22-RM-4197 - 23 ft E1.	10
31 D22-RM-4198 - 57 ft E1.	35
32 Drywell Temp ("F)	115
33 Suppression Pool Temp ("F)	1 87
RX. BLDG. ROJF VENT RAD	
MONITOR	
34 Particulate (cpm)	11,000
35 Iodine (cpm)	200
36 Noble Gas (cpm)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
-	Rx. Bldg. 50 ft Sample	1
	Station	12
39	Rx. Bldg. 50 ft Airlock	12
40	Rx. Bldg. North of Fuel Pool	
	Between Fuel Pool and	-a
	Drywell	Downscale
42	Turbine Bldg. Sample Station	0.2
43	SJAE A (mR/hr)	390
44	SJAE B (mR/hr)	280
1.5	Rx. Bldg. Ventilation Monitor (mR/hr)	1
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	(16) · · · · ·
47	Turbine Bldg. Roof Vent Flow (scfm)	I
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	T



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

Time \_ 0845

1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	0
4 RCIC Flow (gpm)	0
5 [Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	10
7 SLC Injecting	N
8 CRD Flow (gpm)	60
9 APRM Z	95%
10 Reactor Pressure (psig)	1003
11 Reactor Level (in)	186
12 Main Stack Flow Rate (scfm)	66,000
Turbine Bldg. Roof Vent	
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	
14 (scfm)	172,000
Rx. Bldg. Negative Press	1
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	- 29
17 Drywell Pressure (psig)	.30
18 SBGT Flow A (scfm)	10
19 SBGT Flow B (scfm)	0
20 Drywell H, 4409 (2 conc.)	0
21 Drywell H, 4410 (% conc.)	0
22 Drywell 0, 4409 (% conc.) 23 Drywell 0, 4410 (% conc.)	1.2
23 Drywell 0, 4410 (% conc.)	1.4
24 AOG System Flow (scfm)	40
25 Off-Site Power Available	Y
Main Stack Gas Monitor	1
26 (uC1/sec)	5. DE+1
Turbine Bldg. Vent Monitor	
27 (MC1/sec)	2.4E+0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	1/2
29 D22-RM-4196 - 57 ft E1.	41
30 D22-RM-4197 - 23 ft E1.	11
31 D22-RM-4198 - 57 ft E1.	35
32 Drywell Temp (*F)	115
33 Suppression Pool Temp ("F)	1 87
RX. BLDG. ROOF VENT RAD	1
MONITOR	-
34 Particulate (cpm)	1,000
35 Iodine (cpm)	200
36 Noble Gas (cpm)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 ft Sample Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downseale
	Turbine Bldg. Sample Station	0.2
43	SJAE A (mR/hr)	460
44	SJAE B (mR/hr)	390
And in case of the local division of the loc	Rx. Bldg. Ventilation Monitor (mR/hr)	1
	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
47	Turbine Bldg. Roof Vent Flow (scfm)	I
48	Turbine Bldg. Roof Vent Monitor (µCi/sec.)	I

### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

Time \_ 0900

2Core Spray A Flow (gpm)03RHR A Flow (gpm)04RCIC Flow (gpm)05Core Spray B Flow (gpm)06RHR B Flow (gpm)07SLC Injecting08CRD Flow (gpm)609APRM Z92%10Reactor Pressure (psig)100011Reactor Level (in)18712Main Stack Flow Rate (scfm)64,000Turbine Bldg. Roof Vent14,00013Flow (scfm)14,000Rx. Bldg. Negative Press1516Suppression Pool Level (in)2516Suppression Pool Level (in)2917Drywell Pressure (psig).3018SBGT Flow B (scfm)020Drywell H, 4409 (% conc.)021Drywell O, 4409 (% conc.)1.223Drywell O, 4409 (% conc.)1.224AOG System Flow (scfm)4025Off-Site Power Available4025Off-Site Power Available4025Off-Site Power Available40		
2 Core Spray A Flow (gpm)       0         3 RHR A Flow (gpm)       0         4 RCIC Flow (gpm)       0         5 Core Spray B Flow (gpm)       0         6 RHR B Flow (gpm)       0         7 SLC Injecting       0         8 CRD Flow (gpm)       0         9 APRM 3       92%         10 Reactor Pressure (psig)       1000         11 Reactor Level (in)       197         12 Main Stack Flow Rate (scfm)       64,000         Turbine Bldg. Roof Vent       14,000         Rx. Bldg. Roof Vent Flow       14,000         Rx. Bldg. Negative Press       15 (inches of water vacuum)      25         16 Suppression Pool Level (in)       -29       .50         17 Drywell Pressure (psig)       .50       .50         18 SBGT Flow A (scfm)       0       .00         20 Drywell H, 4409 (% conc.)       0       .21         21 Drywell O, 4409 (% conc.)       0       .22         22 Drywell O, 4409 (% conc.)       0       .22         23 Drywell O, 4409 (% conc.)       0       .22         24 AOG System Flow (scfm)       40       .00         25 Off-Site Power Available       Y       .00         25 Dif-Site Power Available       Y	1 HPCI Flow (gpm)	10
3 RHR A Flow (gpm)       0         4 RCIC Flow (gpm)       0         5 Core Spray B Flow (gpm)       0         7 SLC Injecting       0         8 CRD Flow (gpm)       0         9 APRM %       92%         10 Reactor Pressure (psig)       1000         11 Reactor Level (in)       1/87         12 Main Stack Flow Rate (scfm)       64,000         Turbine Bldg. Roof Vent       13         13 Flow (scfm)       1/4,000         Rx. Bldg. Roof Vent Flow       1/4,000         Rx. Bldg. Negative Press      25         16 Suppression Pool Level (in)      25         16 Suppression Pool Level (in)      25         18 SBGT Flow A (scfm)       0         20 Drywell Pressure (psig)       .36         18 SBGT Flow A (scfm)       0         21 Drywell H, 4409 (% conc.)       0         22 Drywell 0, 4400 (% conc.)       0         23 Drywell 0, 4400 (% conc.)       1.40         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         Main Stack Bas Monitor       2.0E+1         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         7 (uC1/sec)	2 Core Spray A Flow (gpm)	CONTRACTOR AND ADDRESS OF THE OWNER ADDRESS OF
4       RCIC Flow (gpm)       0         5       Core Spray B Flow (gpm)       0         6       RHR B Flow (gpm)       0         7       SLC Injecting       0         8       CRD Flow (gpm)       0         9       APRM %       92%         10       Reactor Pressure (psig)       1000         11       Reactor Level (in)       197         12       Main Stack Flow Rate (scfm)       44,000         Turbine Bldg. Roof Vent       13         13       Flow (scfm)       14,000         Rx. Bldg. Negative Press      25         16       Suppression Pool Level (in)      29         17       Drywell Pressure (psig)       .3c         18       SBGT Flow & (scfm)       0         19       SBGT Flow & (scfm)       0         20       Drywell H., 4409 (% conc.)       0         21       Drywell N., 4409 (% conc.)       0         22       Drywell N., 4409 (% conc.)       0         23       Drywell O., 4409 (% conc.)       1.4         24       AOG System Flow (scfm)       40         25       Off-Site Power Available       Y         Main Stack Jas Monitor       2		0
5       Core Spray B Flow (gpm)       0         6       RHR B Flow (gpm)       0         7       SLC Injecting       0         8       CRD Flow (gpm)       40         9       APRM I       92%         10       Reactor Pressure (psig)       10000         11       Reactor Level (in)       187         12       Main Stack Flow Rate (scfm)       44,000         Turbine Bldg. Roof Vent       14,000         13       Flow (scfm)       14,000         Rx. Bldg. Negative Press       15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      29       17       Drywell Pressure (psig)       .3c         18       SBGT Flow A (scfm)       0       0       19       SBGT Flow B (scfm)       0         20       Drywell H, 4409 (% conc.)       0       22       0       24409       25.0E+1         23       Drywell O, 4409 (% conc.)       0       22       23       0       24       25.0E+1         24       AOG System Flow (scfm)       40       25       0ff-Site Power Available       7         24       AOG System Flig. Vent Monitor       2.4E+0       2.4E+0       2.4E+0		
6       RHR B Flow (gpm)       0         7       SLC Injecting       0         8       CRD Flow (gpm)       60         9       APRM I       92%         10       Reactor Pressure (psig)       1000         11       Reactor Level (in)       1877         12       Main Stack Flow Rate (scfm)       66,000         Turbine Bldg. Roof Vent       14,000         13       Flow (scfm)       14,000         Rx. Bldg. Negative Press       15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      29         17       Drywell Pressure (psig)       .30       .30         18       SBGT Flow A (scfm)       0       0         19       SBGT Flow B (scfm)       0       0         20       Drywell H, 4409 (% conc.)       0       20         21       Drywell O, 4409 (% conc.)       0       22         23       Drywell O, 4409 (% conc.)       1.4       40         24       AOG System Flow (scfm)       40       25         25       Off-Site Power Available       Y       Main Stack Jas Monitor         26       (µC1/sec)       5.0 E+1       14	5 Core Spray 3 Flow (gpm)	Contraction of the second s
7       SLC Injecting       0         8       CRD Flow (gpm)       60         9       APRM %       92%         10       Reactor Pressure (psig)       1000         11       Reactor Level (in)       197         12       Main Stack Flow Rate (scfm)       66,000         Turbine Bldg. Roof Vent       13         13       Flow (scfm)       14,000         Rx. Bldg. Roof Vent Flow       14         14       (scfm)       12,000         Rx. Bldg. Negative Press       15         16       Suppression Pool Level (in)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .30         18       SBGT Flow & (scfm)       0         20       Drywell H, 4409       (f. conc.)       0         21       Drywell M, 4409       (f. conc.)       0         22       Drywell O, 4409       (f. conc.)       0         23       Drywell O, 4409       (f. conc.)       1.4         24       AOG System Flow (scfm)       40       2       2.0 E+1         25       Off-Site Power Available       Y       Main Stack Jas Monitor       2.4E+0	6 RHR B Flow (gpm)	Construction of the providence of the party
8       CRD Flow (gpm)       60         9       APRM %       92%         10       Reactor Pressure (psig)       1000         11       Reactor Level (in)       197         12       Main Stack Flow Rate (scfm)       66,000         Turbine Bldg. Roof Vent       13         13       Flow (scfm)       14,000         Rx. Bldg. Roof Vent Flow       14         14       (scfm)       172,000         Rx. Bldg. Negative Press       15         15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      29         17       Drywell Pressure (psig)       .80         18       SBGT Flow & (scfm)       0         19       SBGT Flow & (scfm)       0         20       Drywell H_44409       (% conc.)       0         21       Drywell M_44409       (% conc.)       0         22       Drywell O_44409       (% conc.)       1.40         23       Drywell O_44409       (% conc.)       1.40         24       AOG System Flow (scfm)       400       25       0 ff-Site Power Available       Y         Main Stack Jas Monitor       2.0 E+1       .0 E+1       .	7 SLC Injecting	the second se
9 APRM %       92%         10 Reactor Pressure (psig)       1000         11 Reactor Level (in)       197         12 Main Stack Flow Rate (scfm)       64,000         Turbine Bldg. Roof Vent       13         13 Flow (scfm)       14,000         Rx. Bldg. Roof Vent Flow       14         14 (scfm)       19,000         Rx. Bldg. Negative Press      25         16 Suppression Pool Level (in)      29         17 Drywell Pressure (psig)       .30         18 SBGT Flow A (scfm)       0         20 Drywell H, 4409 (% conc.)       0         21 Drywell M, 4409 (% conc.)       0         22 Drywell 0, 4409 (% conc.)       0         23 Drywell 0, 4409 (% conc.)       1.40         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         Main Stack Jas Monitor       2.0E+1         24 DRYWELL MF, RAD MONITOR       R/hr         28 D22-RM-4195       30 ft E1.       12         29 D22-RM-4196 - 57 ft E1.       41         30 Q22-RM-4197 - 23 fz E1.       12         31 D22-RM-4198 - 57 ft E1.       35         32 Drywell Temp (*F.       115         33 Suppression Pool Temp (*F)       \$5 <td>8 CRD Flow (gpm)</td> <td>Contraction of the second s</td>	8 CRD Flow (gpm)	Contraction of the second s
10       Reactor Pressure (psig)       1000         11       Reactor Level (in)       197         12       Main Stack Flow Rate (scfm)       64,000         Turbine Bldg. Roof Vent       13         13       Flow (scfm)       14,000         Rx. Bldg. Roof Vent Flow       14         14       (scfm)       14,000         Rx. Bldg. Negative Press       14         15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      29         17       Drywell Pressure (psig)       .30         18       SBGT Flow A (scfm)       0         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         22       Drywell N, 4409       (% conc.)       0         23       Drywell O, 4409       (% conc.)       0         24       AOG System Flow (scfm)       40       40         25       Off-Site Power Available       Y       Main Stack Jas Monitor         26       (uC1/sec)       5.0E+1       12         74       DRYWELL MF       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft E1 </td <td>9 APRM Z</td> <td>Construction of the second s</td>	9 APRM Z	Construction of the second s
11       Reactor Level (in)       /97         12       Main Stack Flow Rate (scfm)       66,000         Turbine Bldg. Roof Vent       13         13       Flow (scfm)       14,000         Rx. Bldg. Roof Vent Flow       14         14       (scfm)       /92,000         Rx. Bldg. Negative Press       15         15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      29         17       Drywell Pressure (psig)       .80         18       SBGT Flow A (scfm)       0         20       Drywell H, 4409       (conc.)       0         21       Drywell H, 4410       (f conc.)       0         22       Drywell O, 4409       (f conc.)       1.2         23       Drywell O, 4409       (f conc.)       1.40         24       AOG System Flow (scfm)       40       25         25       Off-Site Power Available       Y       Y         Main Stack Jas Monitor       2.0E+1       1.42       2.0E+1         29       D22-RM-4195       30 ft E1.       12         29       D22-RM-4195       30 ft E1.       12         30       D22-RM-4196 - 57 ft E1. <td>10 Reactor Pressure (psig)</td> <td></td>	10 Reactor Pressure (psig)	
12 Main Stack Flow Rate (scfm)       66,000         Turbine Bldg. Roof Vent       13 Flow (scfm)       14,000         Rx. Bldg. Roof Vent Flow       14 (scfm)       14,000         Rx. Bldg. Negative Press       15 (inches of water vacuum)      25         16 Suppression Pool Level (in)      29         17 Drywell Pressure (psig)       .80         18 SBGT Flow A (scfm)       0         20 Drywell H, 4409 (% conc.)       0         21 Drywell H, 4409 (% conc.)       0         22 Drywell O, 4409 (% conc.)       0         23 Drywell O, 4409 (% conc.)       1.2         23 Drywell O, 4409 (% conc.)       1.2         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         Main Stack Jas Monitor       2.0E+1         26 (µC1/sec)       5.0E+1         7 (µCi/sec)       2.4E+0         DRYWELL MP       RAD MONITOR         29 D22-RM-4195       30 ft El.       12         30 Q22-RM-4196 - 57 ft El.       41         30 Q22-RM-4197 - 23 ft El.       115         33 Suppression Pool Temp (*F)       \$5         RX. BLDG. ROOF VENT RAD       MONITOR         34 Farticulate (cpm)       400		
Turbine Bldg. Roof Vent       14,000         Rx. Bldg. Roof Vent Flow       14 (scfm)         14 (scfm)       /72,000         Rx. Bldg. Negative Press       15 (inches of water vacuum)         15 (inches of water vacuum)      25         16 Suppression Pool Level (in)      29         17 Drywell Pressure (psig)       .30         18 SBGT Flow A (scfm)       0         19 SBGT Flow B (scfm)       0         20 Drywell H, 4409 (% conc.)       0         21 Drywell H, 4409 (% conc.)       0         22 Drywell O, 4409 (% conc.)       0         23 Drywell O, 4409 (% conc.)       0         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         Main Stack Jas Monitor       2.0E+1         26 (µC1/sec)       5.0E+1         7 (µCi/sec)       2.4E+0         DRYWELL MP       RAD MONITOR         29 D22-RM-4195       30 ft E1.         30 Q22-RM-4197 - 23 ft E1.       12         31 D22-RM-4198 - 57 ft E1.       41         30 Q22-RM-4198 - 57 ft E1.       35         32 Drywell Temp (*F.       115         33 Suppression Pool Temp (*F.)       \$55         RX. BLDG. ROOF VENT RAD       MONITOR	12 Main Stack Flow Rate (scfm)	
Rx. Bldg. Roof Vent Flow       /72,000         Rx. Bldg. Negative Press       /72,000         Rx. Bldg. Negative Press      25         15 (inches of water vacuum)      25         16 Suppression Pool Level (in)      29         17 Drywell Pressure (psig)       .30         18 SBGT Flow A (scfm)       0         19 SBGT Flow B (scfm)       0         20 Drywell H, 4409 (% conc.)       0         21 Drywell N, 4409 (% conc.)       0         22 Drywell O, 4409 (% conc.)       0         23 Drywell O, 4409 (% conc.)       0         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         Main Stack Gas Monitor       5.0E+1         24 Mod System Flig. Vent Monitor       2.4E+0         DRYWELL MP       RAD MONITOR         27 (µC1/sec)       5.0E+1         30 ft El.       12         29 D22-RM-4197       23 ft El.         31 D22-RM-4197       23 ft El.         32 Drywell Temp (*F)       85         33 Suppression Pool Temp (*F)       85         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       1,000         35 Iodine (cpm)       200	Turbine Bldg. Roof Vent	1,
Rx. Bldg. Roof Vent Flow       14 (scfm)       /72,000         Rx. Bldg. Negative Press       15 (inches of water vacuum)      25         16 Suppression Pool Level (in)      29         17 Drywell Pressure (psig)       .80         18 SBGT Flow A (scfm)       0         19 SBGT Flow B (scfm)       0         20 Drywell H, 4409 (f. conc.)       0         21 Drywell H, 4409 (f. conc.)       0         22 Drywell O, 4409 (f. conc.)       0         23 Drywell O, 4409 (f. conc.)       1.2         23 Drywell O, 4409 (f. conc.)       1.2         23 Drywell O, 4409 (f. conc.)       1.4         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       Y         Main Stack Gas Monitor       2.4E+0         DRYWELL MF.       RAD MONITOR         27 (uC1/sec)       2.4E+0         DRYWELL MF.       RAD MONITOR         28 D22-RM-4195       30 ft El.         30 D22-RM-4197 - 23 ft El.       12         31 D22-RM-4197 - 23 ft El.       15         32 Drywell Temp (F.       115         33 Suppression Pool Temp (F)       85         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       1,000	13 Flow (scfm)	14.000
Rx. Bldg. Negative Press         15 (inches of water vacuum)      25         16 Suppression Pool Level (in)      29         17 Drywell Pressure (psig)       .30         18 SBGT Flow A (scfm)       0         19 SBGT Flow B (scfm)       0         20 Drywell H, 4409 (% conc.)       0         21 Drywell N, 4409 (% conc.)       0         22 Drywell 0, 4409 (% conc.)       1.2         23 Drywell 0, 4409 (% conc.)       1.4         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       40         26 (uC1/sec)       5.0E+1         7 urbine Flig. Vent Monitor       2.4E+0         DRYWELL UP       RAD MONITOR         R/hr       28         29 D22-RM-4195       30 ft E1.         30 Q22-RM-4197 - 23 ft E1.       12         31 D22-RM-4198 - 57 ft E1.       115         33 Suppression Pool Temp (*F)       85         33 Suppression Pool Temp (*F)       85         34 Particulate (cpm)       1.000         35 Iodine (cpm)       200	Rx. Bldg. Roof Vent Flow	1.
Rx. Bldg. Negative Press         15 (inches of water vacuum)      25         16 Suppression Pool Level (in)       -29         17 Drywell Pressure (psig)       .30         18 SBGT Flow A (scfm)       0         19 SBGT Flow B (scfm)       0         20 Drywell H, 4409 (f. conc.)       0         21 Drywell H, 4409 (f. conc.)       0         22 Drywell O, 4409 (f. conc.)       0         23 Drywell O, 4409 (f. conc.)       1.2         23 Drywell O, 4409 (f. conc.)       1.4         24 AOG System Flow (scfm)       40         25 Off-Site Power Available       40         Main Stack Gas Monitor       5.0E+1         26 (µC1/sec)       5.0E+1         7 (µC1/sec)       2.4E+0         DRYWELL MF       RAD MONITOR         29 D22-RM-4195       30 ft El.       12         30 D22-RM-4195       30 ft El.       12         31 D22-RM-4197 - 23 ft El.       35       35         32 Drywell Temp (*F.       115         33 Suppression Pool Temp (*F)       85         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       1,000         35 Iodine (cpm)       200	14 (scfm)	172,000
16       Suppression Pool Level (in)       - 29         17       Drywell Pressure (psig)       .30         18       SBGT Flow A (scfm)       0         19       SBGT Flow B (scfm)       0         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         22       Drywell O, 4409       (% conc.)       1.2         23       Drywell O, 4409       (% conc.)       1.4         23       Drywell O, 4409       (% conc.)       1.4         24       AOG System Flow (scfm)       40       40         25       Off-Site Power Available       Y         Main Stack Jas Monitor       2.4E+0         26       (µCi/sec)       5.0E+1         7       (µCi/sec)       2.4E+0         DRYWELL %17       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft E1.       12         30       D22-RM-4196 - 57 ft E1.       12         31       D22-RM-4198 - 57 ft E1.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)		1
16       Suppression Pool Level (in)       - 29         17       Drywell Pressure (psig)       .30         18       SBGT Flow A (scfm)       0         19       SBGT Flow B (scfm)       0         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         21       Drywell O, 4409       (% conc.)       0         22       Drywell O, 4409       (% conc.)       1.2         23       Drywell O, 4410       (% conc.)       1.4         23       Drywell O, 4410       (% conc.)       1.4         24       AOG System Flow (scfm)       40       40         25       Off-Site Power Available       Y       Main Stack Jas Monitor         26       (µCi/sec)       5.0E+1       1.4         7       (µCi/sec)       2.4E+0       DRYWELL MF       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12       12         29       D22-RM-4196       57 ft El.       12       12         31       D22-RM-4198       57 ft El.       35       35         32       Drywell Temp (*F)       \$55       \$57       \$55	15 (inches of water vacuum)	25
18       SBGT Flow A (scfm)       0         19       SBGT Flow B (scfm)       0         20       Drywell H, 4409 (% conc.)       0         21       Drywell H, 4409 (% conc.)       0         22       Drywell O, 4409 (% conc.)       0         23       Drywell O, 4409 (% conc.)       1.2         23       Drywell O, 4409 (% conc.)       1.2         23       Drywell O, 4409 (% conc.)       1.4         24       AOG System Flow (scfm)       400         25       Off-Site Power Available       40         26       (uCi/sec)       5.0E+1         Main Stack Jas Monitor       2.4E+0         DRYWELL M?       RAD MONITOR         27       (uCi/sec)       3.0 ft El.         29       D22-RM-4195       30 ft El.       12         29       D22-RM-4196 - 57 ft El.       41         30       D22-RM-4198 - 57 ft El.       12         31       D22-RM-4198 - 57 ft El.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$5         RX.       BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       400	16 Suppression Pool Level (in)	
18       SBGT Flow A (scfm)       0         19       SBGT Flow B (scfm)       0         20       Drywell H, 4409 (% conc.)       0         21       Drywell H, 4409 (% conc.)       0         22       Drywell H, 4409 (% conc.)       0         23       Drywell O, 4409 (% conc.)       0         23       Drywell O, 4409 (% conc.)       1.2         23       Drywell O, 4409 (% conc.)       1.2         23       Drywell O, 4410 (% conc.)       1.46         24       AOG System Flow (scfm)       400         25       Off-Site Power Available       140         26       (uCi/sec)       5.0E+1         Main Stack Jas Monitor       2.4E+0         DRYWELL M?       RAD MONITOR         27       (uCi/sec)       5.0E+1         7       UCi/sec)       3.0 ft El.         7       B22-RM-4195       30 ft El.       12         29       D22-RM-4196 - 57 ft El.       12         31       D22-RM-4198 - 57 ft El.       12         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$5         RX.       BLDG. ROOF VENT RAD       MONITOR	17 Drywell Pressure (psig)	,30
19       SBGT Flow B (scfm)       0         20       Drywell H, 4409 (% conc.)       0         21       Drywell H, 4410 (% conc.)       0         22       Drywell O, 4409 (% conc.)       0         23       Drywell O, 4409 (% conc.)       0         23       Drywell O, 4409 (% conc.)       1.2         23       Drywell O, 4410 (% conc.)       1.4         24       AOG System Flow (scfm)       40         25       Off-Site Power Available       40         26       (µC1/sec)       5.0E+1         7       Main Stack Jas Monitor       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28       D22-RM-4175       30 ft El.       12         29       D22-RM-4196 - 57 ft El.       41         30       D22-RM-4197 - 23 fz El.       12         31       D22-RM-4198 - 57 ft El.       12         33       Suppression Pool Temp (*F)       \$5         RX. BLDG. ROOF VENT RAD       MONITOR       400         34       Farticulate (cpm)       1,000         35       Iodine (cpm)       200		
20       Drywell H, 4409 (% conc.)       0         21       Drywell H, 4410 (% conc.)       0         22       Drywell O, 4409 (% conc.)       1.2         23       Drywell O, 4409 (% conc.)       1.4         24       AOG System Flow (scfm)       40         25       Off-Site Power Available       40         25       Off-Site Power Available       7         Main Stack Gas Monitor       2.4E+0         DRYWELL OF       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12         29       D22-RM-4196 - 57 ft El.       44         30       D22-RM-4197 - 23 ft El.       12         31       D22-RM-4198 - 57 ft El.       12         32       Drywell Temp (*F.       115         33       Suppression Pool Yemp (*F)       \$5         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       1.000         35       Iodine (cpm)       200		and the second se
24       AOG System Flow (scfm)       40         25       Off-Site Power Available       Y         Main Stack Jas Monitor       .0E+1         26       (µC1/sec)       5.0E+1         Turbine Plig. Vent Monitor       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12         29       D22-RM-4196       -57 ft El.       41         30       D22-RM-4197       -23 ft El.       12         31       D22-RM-4198       -57 ft El.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$55         RX.       BLDG.       ROOF VENT RAD         MONITOR       34       Particulate (cpm)       1,000         35       Iodine (cpm)       200       200	20 Drywell H, 4409 (% conc.)	0
24       AOG System Flow (scfm)       40         25       Off-Site Power Available       Y         Main Stack Jas Monitor       .0E+1         26       (µC1/sec)       5.0E+1         Turbine Plig. Vent Monitor       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12         29       D22-RM-4196       -57 ft El.       41         30       D22-RM-4197       -23 ft El.       12         31       D22-RM-4198       -57 ft El.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$55         RX.       BLDG.       ROOF VENT RAD         MONITOR       34       Particulate (cpm)       1,000         35       Iodine (cpm)       200       200	21 Drywell H, 4410 (% conc.)	0
24       AOG System Flow (scfm)       40         25       Off-Site Power Available       Y         Main Stack Jas Monitor       .0E+1         26       (µC1/sec)       5.0E+1         Turbine Plig. Vent Monitor       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12         29       D22-RM-4196       -57 ft El.       41         30       D22-RM-4197       -23 ft El.       12         31       D22-RM-4198       -57 ft El.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$55         RX.       BLDG.       ROOF VENT RAD         MONITOR       34       Particulate (cpm)       1,000         35       Iodine (cpm)       200       200	22 Drywell 0, 4409 (% conc.)	1.2
24       AOG System Flow (scfm)       40         25       Off-Site Power Available       Y         Main Stack Jas Monitor       .0E+1         26       (µC1/sec)       5.0E+1         Turbine Plig. Vent Monitor       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12         29       D22-RM-4196       -57 ft El.       41         30       D22-RM-4197       -23 ft El.       12         31       D22-RM-4198       -57 ft El.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$55         RX.       BLDG.       ROOF VENT RAD         MONITOR       34       Particulate (cpm)       1,000         35       Iodine (cpm)       200       200	23 Drywell 0, 4410 (% conc.)	
Main Stack Gas Monitor         26 (µCi/sec)       5.0E+1         Turbine Plig. Vent Monitor       2.4E+0         27 (µCi/sec)       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28 D22-RM-4175       30 ft El.       12         29 D22-RM-4196 - 57 ft El.       41         30 D22-RM-4197 - 23 fz El.       12         31 D22-RM-4198 - 57 ft El.       15         32 Drywell Temp (*F.       115         33 Suppression Pool Temp (*F)       \$5         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       1,000         35 Iodine (cpm)       200	24 AOG System Flow (scfm)	
26       (µCi/sec)       5.0E+1         Turbine Plig. Vent Monitor       2.4E+0         27       (µCi/sec)       2.4E+0         DRYWELL %1?       RAD MONITOR       R/hr         28       D22-RM-4195       30 ft El.       12         29       D22-RM-4195       30 ft El.       12         30       D22-RM-4196       - 57 ft El.       41         30       D22-RM-4197       - 23 ft El.       12         31       D22-RM-4198       - 57 ft El.       15         32       Drywell Temp (*F.       115         33       Suppression Pool Temp (*F)       \$5         RX.       BLDG.       ROOF VENT RAD         MONITOR       1000       1000         35       Iodine (cpm)       200		IY
Turbine Flig. Vent Monitor         27 (uCi/sec)       2.4E+0         DRYWELL VI?       RAD MONITOR       R/hr         28 D22-RM-4175       30 ft E1.       /2         29 D22-RM-4196 - 57 ft E1.       /2         30 D22-RM-4197 - 23 ft E1.       /2         31 D22-RM-4198 - 57 ft E1.       /2         32 Drywell Temp (*F.       //5         33 Suppression Pool Temp (*F)       \$5         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       /,000         35 Iodine (cpm)       200		
27       (uC1/sec)       2.4E+0         DRYWELL '''       RAD MONITOR       R/hr         28       D22-RM-4175       30 ft El.       /2         29       D22-RM-4196       - 57 ft El.       41         30       D22-RM-4197       - 23 ft El.       /2         31       D22-RM-4197       - 23 ft El.       /2         31       D22-RM-4198       - 57 ft El.       115         32       Drywell Temp ('F.       115         33       Suppression Pool Temp ('F)       \$55         RX.       BLDG.       ROOF VENT RAD         MONITOR       1000       1000         34       Particulate (cpm)       1,000         35       Iodine (cpm)       200	26 (uC1/sec)	5.0E+1
DRYWELL         91?         RAD         MONITOR         R/hr           28         D22-RM-4175         30         ft El.         /2           29         D22-RM-4196         -57         ft El.         /4           30         D22-RM-4196         -57         ft El.         /4           30         D22-RM-4197         -23         ft El.         /2           31         D22-RM-4197         -23         ft El.         /2           31         D22-RM-4198         -57         ft El.         /2           32         Drywell         Temp (*F.         //5           33         Suppression Pool Temp (*F.         //5           RX.         BLDG.         ROOF VENT RAD           MONITOR	Turbine Flig. Vent Monitor	
28       D22-RM-4175       30       ft El.       /2         29       D22-RM-4196       -57       ft El.       41         30       D22-RM-4196       -57       ft El.       41         30       D22-RM-4197       -23       ft El.       12         31       D22-RM-4197       -23       ft El.       /2         31       D22-RM-4198       -57       ft El.	27 (uC1/sec)	CONTRACTOR OF A
29       D22-RM-4196 - 57       ft E1.       41         30       D22-RM-4197 - 23       ft E1.       12         31       D22-RM-4198 - 57       ft E1.       12         32       Drywell Temp (°F.       115         33       Suppression Pool Temp (°F.)       85         RX.       BLDG.       ROOF VENT RAD         MONITOR       1,000         35       Iodine (cpm)       200		R/hr
29       D22-RM-4196 - 57       ft E1.       41         30       D22-RM-4197 - 23       ft E1.       12         31       D22-RM-4198 - 57       ft E1.       12         32       Drywell Temp (°F.       115         33       Suppression Pool Temp (°F.)       85         RX.       BLDG.       ROOF VENT RAD         MONITOR       1,000         35       Iodine (cpm)       200		1 /2
30       D22-RM-4197 ~ 23       fz E1.       /2         31       D22-RM-4198 ~ 57       fe E1.       35         32       Drywell Temp (*F.       //5         33       Suppression Pool Temp (*F.)       //5         RX.       BLDG.       ROOF VENT RAD         MONITOR       //000         34       Particulate (cpm)       //000         35       Iodine (cpm)       200		41
32     Drywell Temp (°F.     115       33     Suppression Pool Temp (°F)     85       RX. BLDG. ROOF VENT RAD MONITOR     85       34     Particulate (cpm)     1,000       35     Iodine (cpm)     200	30  Q22-RM-4197 ~ 23 fz E1.	1 12
33     Suppression Pool Temp (°F)     \$5       RX. BLDG. ROOF VENT RAD       MONITOR       34     Particulate (cpm)     1,000       35     Iodine (cpm)     200	31 D22-RM-4198 - 57 fe E1.	35
33     Suppression Pool Temp (*F)     \$5       RX. BLDG. ROOF VENT RAD     MONITOR       34     Particulate (cpm)     1,000       35     Iodine (cpm)     200		115
RX. BLDG. ROOF VENT RAD         MONITOR         34 Particulate (cpm)         35 Iodine (cpm)         200	33 Suppression Pool Temp (°F)	85
34 Particulate (cpm)         1,000           35 Iodine (cpm)         200		
35 Iodine (cpm) 200		
35 Iodine (cpm) 200	34 Particulate (cpm)	1,000
36 Noble Gas (cpm) /00	35 Iodine (cpm)	200
	36 Noble Gas (cpm)	100

_	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 30 ft Sample	
	Station	2
39	Rx. Bldg. 50 ft Airlock	12
	Rx. Bldg. North of Fuel Pool	2
	Between Fuel Pool and	1
	Drywell	Downscale
	Turbine Bldg. Sample	T
	Station .	0.2
	SJAE A (mR/hr)	550
44	SJAE B (mR/hr)	480
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1
46	Service Watar Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent	-
	Flow (scfm)	4
	Turbine Bldg. Roof Vent Monitor (µCi/sec.)	I



## EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

NA - Not available

1	HPCI Flow (gpm)	0
2	Core Spray A Flow (gpm)	0
3	RHR A Flow (gpm)	0
4	RCIC Flow (gpm)	0
5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	0
7	SLC Injecting	N
	CRD Flow (gpm)	60
	APRM Z	75%
10	Reactor Pressure (psig)	990
11	Reactor Level (in)	187
12	Main Stack Flow Rate (scfm)	66,000
-	Turbine Bldg. Roof Vent	
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	
14	(scfm)	172,000
-	Rx. Bldg. Negative Press	
	(inches of water vacuum)	25
	Suppression Pool Level (in)	-29
17	Drywell Pressure (psig)	.27
	SRGT Flow A (scfm)	0
19	SBGT Flow B (scfm)	0
20	SBGT Flow B (scfm)       Drywell H, 4409 (% conc.)       Drywell H, 4410 (% conc.)       Drywell O, 4409 (% conc.)	0
21	Drywell H <sub>2</sub> 4410 (% conc.)	0
6.6	Divers of 4405 (4 conce)	1.3
	Drywell 0, 4410 (1 conc.)	1.7
	AOG System Flow (scfm)	37
25	Off-Site Power Available	r
	Main Stack Gas Monitor	
26	(uCi/sec)	5.0E+1
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	2.4E+0
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1. D22-RM-4196 - 57 ft E1.	10
		38
	D22-RM-4197 - 23 ft E1. D22-RM-4198 - 57 ft E1.	10
		30
	Drywell Temp (*F)	114
22	Suppression Pool Temp (*F) RX. BLDG. ROOF VENT RAD	85
	MONITOR	
34	Particulate (cpm)	1000
	Iodine (cpm)	1,000
	Noble Gas (cpm)	200
20	noore des (cpal)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	11
	Rx. Bldg. 50 ft Sample	
	Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
	Between Fuel Pool and	
41	Dryw,11	Downsca
	Turbine Bldg. Sample	
	Station .	0.2
43	SJIE A (mR/hr)	550
44	SJAE B (mR/hr)	480
	Rx. Bldg. Ventilation Monitor (mR/hr)	1
	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent	
47	Flow (scfm)	I
	Turbine Bldg. Roof	
48	Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

NA - Not available

1	HPCI Flow (gpm)	10
2	Core Spray A Flow (gpm)	0
3	RHR A Flow (gpm)	0
4	RCIC Flow (gpm)	0
5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	0
7	ISLC Injecting	10
8	CRD Flow (gpm)	60
9	APRM Z	60
10	Reactor Pressure (psig)	980
11	Reactor Level (in)	187
12	Main Stack Flow Rate (scfm)	66,000
-	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	
14	(scfm)	172,000
	Rx. Bldg. Negative Press	T
15	(inches of water vacuum)	25
16	Suppression Pool Level (in)	- 29
17	Drywell Pressure (psig)	. 25
18	SBGT Flow A (scfm)	10
19	SBGT Flow B (scfm)	0
20	Drywell H, 4409 (2 conc.)	0
21	Drywell H, 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	1.4
23	Drywell 0, 4410 (% conc.)	1.7
24	AOG System Flow (scfm)	35
25	Off-Site Power Available	Y
	Main Stack Gas Monitor	
26	(uCi/sec)	5.08+1
_	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	2.4E+0
	DRYWELL HIGH RAD MONITOR	R/hr
	D22-RM-4195 - 30 ft E1.	10
	D22-RM-4196 - 57 ft E1.	34
	Q22-RM-4197 ~ 23 ft E1.	10
	D22-RM-4198 - 57 ft E1.	30
	Drywell Temp ("F)	113
33	Suppression Pool Temp (°F)	85
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cpm)	1,000
35	Iodine (cpm)	200
36	Noble Gas (cpm)	100

_	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
and the second second	Rx. Bldg. 50 ft Sample Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
	Between Fuel Pool and Drywell	Downscal
42	Turbine Bldg. Sample Station	0.2
43	SJAE A (mR/hr)	410
44	SJAE B (mR/hr)	490
Contraction of the local division of the loc	Rx. Bldg. Ventilation Monitor (mR/hr)	1,
	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent Flow (scfm)	1
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT \_\_\_\_)

## Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	0
4 RCIC Flow (gpm)	0
5 Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	0
7 SLC Injecting	N
8 CRD Flow (gpm)	60
9 APRM Z	55
10 Reactor Pressure (psig)	977
11 Reactor Level (in)	187
12 Main Stack Flow Rate (scfm)	66,000
Turbine Bldg. Roof Vent	
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	
14 (scfm)	172,000
Rx. Bldg. Negative Press	
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	-29
17 Drywell Pressure (psig)	. 25
18 SBGT Flow A (scfm)	10
19 (SBGT Flow B (scfm)	10
20 Drywell H, 4409 (% conc.)	0
21 Drywell H: 4410 (1 couc.)	0
22 Drywell 0, 4409 (% conc.)	1.5
23 Drywell 0, 4410 (% conc.)	1.8
24 AOG System Flow (scfm)	
25 Off-Site Power Available	35
Main Stack Gas Monitor	
26 (uCi/sec)	5.0E+1
Turbine Bldg. Vent Monitor	1
27 (uCi/sec)	12.4E+D
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	1 10
29 D22-RM-4196 - 57 ft E1.	36
30  222-RM-4197 - 23 ft E1.	1 10
31 D22-RM-4198 - 57 ft E1.	30
32 Drywell Temp (*F)	113
33 Suppression Pool Temp ("F)	186
33 Suppression Fool Temp ("F) RX. BLDG. ROOF VENT RAD	1
MONITOR	1
34 [Particulate (cpm)	1,000
35 Iodine (cpm)	200
36 Noble Gas (cpm)	100
second and an or the event supervision of a product supervise of a particulation of the second supervise of the	Contraction of the log

_	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
-	Rx. Bldg. 50 ft Sample	1
	Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downscale
-	Turbine Bldg. Sample	- NR I BALACIA
	Station	0.2
43	SJAE A (mR/hr)	620
44	SJAE B (mR/hr)	500
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
17	Turbine Bldg. Roof Vent Flow (scfm)	-
	Turbine Bldg. Roof	
48	Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT \_2)

Operable Inoperable Standby Running Yes No Isolated

NA - Not available

Time /000

	LUBOR BL	
	HPCI Flow (gpm)	0
_2	Core Spray A Flow (gpm)	0
3	RHR A Flow (gpm)	0
4	RCIC Flow (gpm)	0
5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	0
7	SLC Injecting	IN
8	CRD Flow (gpm)	60
9	APRM Z	51
	Reactor Pressure (psig)	975
11	Reactor Level (in)	185
	Main Stack Flow Rate (scfm)	
	Turbine Bldg. Roof Vent	lele.000
13	Flow (scfm)	41 000
	Rx. Bldg. Roof Vent Flow	14,000
	(scfm)	100
		172,000
	Rx. Bldg. Negative Press	
	(inches of water vacuum)	25
	Suppression Pool Level (in)	- 29
17	Drywell Pressure (psig)	.25
18	SBGT Flow A (sefm)	0
19	SBGT Flow B (scfm)	0
20	SBGI Flow B (scfm)         Drywell H, 4409 (% conc.)         Drywell H, 4410 (% conc.)         Drywell O, 4409 (% conc.)	0
211	Drywell H, 4410 (1 conc.)	0
221	Drywell 0, 4409 (% conc.)	15
23	Drywell 0, 4410 (2 conc.)	1.9
	AOG System Flow (scfm)	36
	Off-Site Power Available	Y
	Main Stack Gas Monitor	
	(uCi/sec)	6.0E+1
	Turbine Bldg. Vent Monitor	
	(uCi/sec)	2.48+0
	DRYWELL HIGH RAD MONITOR	R/hr
	022-RM-4195 - 30 ft E1.	1.2
29 1	022-RM-4196 - 57 ft E1.	15ta
30 11	222-RM-4197 - 23 ft E1.	10
31 1	022-RM-4198 - 57 ft E1.	30
32 [	Drywell Temp (*F)	113
33 5	Suppression Pool Temp (°F)	86
	X. BLDG. ROOF VENT RAD	
	IONITOR	
34 18	Particulate (cpm)	1,000
35 1	lodine (cpm)	200
36 1	Noble Gas (cpm)	100
the Real Property lies in which the Real Property lies in which the Real Property lies in the Re	And and a second s	and the second se

	REA RAD MONITORS	mR/hr
37 R	x. Bldg. 20 ft Airlock	11
R	x. Bldg. 50 ft Sample	
	tation	2
39 R	x. Bldg. 50 ft Airlock	12
R	x. Bldg. North of Fuel	
40 P	001	12
B	etween Fuel Pool and	T
	rywell	Downso
	urbine Bldg. Sample	1
42 5	tation .	0.2
	JAE A (mR/hr)	620
44 5.	JAE B (mR/hr)	500
	x. Bldg. Ventilation	
	onitor (mR/hr)	1
	ervice Water Rad Monitor	
46 (0	cps)	10
	provide the statistical fractional parts	
_	OTHER UNIT	
	arbine Bldg, Roof Vent	
Name of Concession, Name	low (scfm)	II
	irbine Bldg. Roof	
-8  Ve	int Monitor (uCi/sec.)	1



EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT \_\_\_\_)

## Operable Inoperable Standby Running Yes No Isolated

NA - Not available

Time \_ 1015

LIUDOT Plan (and)	1
1 HPCI Flow (gpm)	0
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	0
4 RCIC Flow (gpm)	0
5 Core Spray B Flow (gpm)	0
6 KHR B Flow (gpm)	0
7 SLC Injecting	N
8 CRD Flow (gpm)	60
9 APRM I	50
10 Reactor Pressure (psig)	975
11 Reactor Level (in)	184
12 Main Stack . low Rate (scim)	66,000
Turbine Bldg. Roof Vent	1000
13 Flow (scfm)	14 000
Rx. Bldg. Roof Vent Flow	14,000
14 (scfm)	172 000
Rx. Bldg. Negative Press	172,000
	1
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	-29
17 Drywell Pressure (psig)	. 25
18 SBGT Flow A (scfm)	0
19 SBGT Flow B (scfm)	0
20 Drywell H, 4409 (% conc.) 21 Drywell H, 4410 (% conc.)	0
21 Drywell H, 4410 (% conc.)	0
22 Drywell 0, 4409 (% conc.)	1.5
23 Drywell 0, 4410 (2 conc.)	11.9
24 AOG System Flow (scfm)	1 36
25 Off-Site Power Available	TY
Main Stack Gas Monitor	1
26 (UC1/sec)	6.0E+L
Turbine Bldg. Vent Monitor	Theread
27 (uCi/sec)	2.4E+0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	10
29 D22-RM-4196 - 57 ft E1.	36
30 D22-RM-4197 - 23 ft E1.	10
31 D22-RM-4198 - 57 ft E1.	30
32 Drywell Temp ("F)	
33 Suppression Pool Temp (°F)	113
RX. BLDG. ROOF VENT RAD	86
MONITOR	and the given
	1
34 Particulate (cpm)	1,000
35 Iodine (cpm)	1,000 200 100
36 Noble Gas (cpm)	100

_	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1.1
	Rx. Bldg. 50 ft Sample	1
	Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	1 -
	Between Fuel Pool and	- a
	Drywell	Dunsca
	Turbine Bldg. Sample	1
	Station .	0.2
43	SJAE A (mR/hr)	620
44	SJAE B (mR/hr)	500
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1,
	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent	
COLUMN TWO IS NOT	Flow (scfm)	I
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	T





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

NA - Not available

	-
1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	0
4 RCIC Flow (gpm)	0
5 Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	0
7 SLC Injecting	N
8 CRD Flow (gpm)	60
9 APRM Z	45
10 Reactor Pressure (psig)	970
11 Reactor Level (in)	1 187
12 Main Stack Flow Rate (scfm)	166,000
Turbine Bldg. Roof Vent	00,000
13 Flow (scfm)	14000
Rx. Bldg. Roof Vent Flow	14,000
14 (scfm)	100 000
	172,000
Rx. Bldg. Negative Press	
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	-29
17 Drywell Pressure (psig)	.23
18 SBGT Flow A (scfm)	0
19 SBGT Flow B (scfm)	0
19 SBGT Flow B (scfm) 20 Drywell H, 4409 (% conc.) 21 Drywell H, 4410 (% conc.) 22 Drywell H, 4410 (% conc.)	0
21 Drywell H. 4410 (% conc.)	0
as Drywers Og 4407 (& conc.)	1.6
23 Drywell 0, 4410 (% conc.)	2.0
24 AOG System Flow (scfm)	1 32
25 Off-Site Power Available	IY
Main Stack Cas Monitor	
26 (uCi/sec)	5.0E+1
Turbine Bldg. Vent Monitor	Marine Marine
27 (uC1/sec)	2.4E+0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	10
29 D22-RM-4196 - 57 ft E1.	36
30 D22-RM-4197 - 23 ft E1.	10
31 D22-RM-4198 - 57 ft E1.	30
22 Drywell Temp (°F)	
33 Suppression Pool Temp (°F)	112
RX. BLDG. ROOF VENT RAD	84
MONITOR	
34 Particulate (cpm)	1 0 0 0
35 [Iodine (cpm)	1,000
36 Noble Coe (com)	200
36 Noble Gas (cpm)	100

-	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1 1
	Rx. Bldg. 50 ft Sample Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downscale
42	Turbine Bldg. Sample Station	0.2
43	SJAE A (mR/hr)	646
44	SJAE B (mR/hr)	510
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
47	Turbine Bldg. Roof Vent Flow (scfm)	I
48	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

Time \_1045

1	[HPCI Flow (gpm)	10
2	Core Spray A Flow (gpm)	10
3	RHR A Flow (gpm)	10
4	RCIC Flow (gpm)	10
5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	10
7	SLC Injecting	IN
8	CRD Flow (gpm)	100
9	APRM I	42
10	Reactor Pressure (psig)	970
11	Reactor Level (in)	187
12	Main Stack Flow Rate (scfm)	164,000
	Turbine Bldg. Roof Vent	T
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	
14	(scfm)	172,000
	Rx. Bldg. Negative Press	
15	(inches of water vacuum)	-, 25
16	Suppression Pool Level (in)	- 29
17	Drywell Pressure (psig)	.24
18	SBGT Flow A (scfm)	0
19	SBGT Flow B (scfm)	0
20	Drywell H. 4409 (2 conc.)	0
21	Drywell H. 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	1.6
23	Drywell 0, 4410 (2 conc.)	1.9
24	AOG System Flow (scfm)	33
	Off-Site Power Available	Y
-	Main Stack Gas Monitor	
26	(uC1/sec)	5.0E+1
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	2.46+0
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	10
and the second s	D22-RM-4196 - 57 ft E1.	36
30	Q22-RM-4197 - 23 ft E1.	10
	D22-RM-4198 - 57 ft E1.	.30
32	Drywell Temp ("F)	112
33	Suppression Pool Temp ("F)	86
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cpm)	1,000
35	Lodine (cpm)	200
36	Noble Gas (cpm)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 ft Sample	1
	Station	2
39	Rx. Bldg. 50 ft Airlock	12
	Rx. Bldg. North of Fuel	1
40	Pool	2
	Between Fuel Pool and	T
41	Drywell	Downso
	Turbine Eldg. Sample	
	Station	0.2
	SJAE A (mR/hr)	645
44	SJAE B (mR/hr)	510
	Rx. Bldg. Ventilation	
	Monitor (mR/hr)	1
	Service Water Rad Monitor	
46	(cps)	10
	OTHER INTE	
	OTHER UNIT	
	Turbine Bldg. Roof Vent	
	Flow (scfm)	I
	Turbine Bldg. Roof	T
01	Vent Monitor (uCi/sec.)	1 -



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

## NA - Not available

Time \_\_\_\_\_\_\_\_

1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	10
4 RCIC Flow (gpm)	10
5 Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	10
7 SLC Injecting	W N
8 CRD Flow (gpm)	>100
9 APRM Z	10%
10 Reactor Pressure (psig)	925
11 Reactor Level (in)	180
12 Main Stack Flow Rate (scfm)	66,000
Turbine Bldg. Roof Vent	
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	T
14 (scfm)	172,000
Rx. Bldg. Negative Press	T
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	-29
17 Drywell Pressure (psig)	
18 SBGT Flow A (scfm)	10
19 SBGT Flow B (scfm)	0
20 Drywell H, 4409 (% conc.) 21 Drywell H, 4410 (% conc.)	0
21 Drywell H5 4410 (I conc.)	0
22 Drywell 0, 4409 (% conc.)	1.7
23 Drywell 0, 4410 (% conc.)	2.1
24 AOG System Flow (scfm)	22
25 Off-Site Power Available	LY_
Main Stack Gas Monitor	
26 (uC1/sec)	8.0E+1
Turbine Bldg. Vent Monitor	
27 (uCi/sec)	5.0E+3
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	16
29 D22-RM-4196 - 57 ft E1.	1/2
30 D22-RM-4197 - 23 ft E1.	5
31 D?2-RM-4198 - 57 ft E1.	10
32 Drywell Temp (*F)	110
33 Suppression Pool Temp (*F) RX. BLDG. ROOF VENT RAD	86
MONITOR	
34 Particulate (cpm)	1,000
35 Iodine (cpm) 36 Noble Gas (cpm)	200
so noore das (cpa)	100

_	JAREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 ft Sample	
	Station	2
39	Rx. Bldg. 50 ft Airlock	21
40	Rx. Bldg. North of Fuel Pool	2
	Between Fuel Pool and	
41	Drywell	Downscak
	Turbine Bldg. Sample	1
	Station .	3
43	SJAE A (mR/hr)	220
44	SJAE B (mR/hr)	160
and the second s	Rx. Bldg. Ventilation Monitor (mR/hr)	1
	Service Water Rad Monitor (cps)	10
	OTHER UNIT	1.6.2
	Turbine Bldg. Roof Vent	
	Flow (scfm)	I
	Turbine Bldg. Roof Vent Moritor (uCi/sec.)	I





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

NA - Not available

Time \_11.5

1	HPCI Flow (gpm)	10
2	Core Spray A Flow (gpm)	10
3	RHR A Flow (gom)	10
4	RCIC Flow (gpm)	0
5	Core Spray B Flow (gpm)	0
6		10
	SLC Injecting	
8	CRD Flow (gpm)	>100
-9	APRM 7	9%
	Reactor Pressure (psig)	925
	Reactor Level (in)	187
	Main Stack Flow Rate (scfm)	
	Turbine Blag. Roof Vent	66,000
12		11 000
15	Flow (scfm)	14,000
11	Rx. Bldg. Roof Vent Flow	100 000
14	(scfm)	172,000
	Rx. Bldg. Negative Press	
	(inches of water vacuum)	1-,25
10	Suppression Pool Level (in)	-29
17	Drywell Pressure (psig)	,20
18	SBGT Flow A (scfm)	0
19	SBGT Flow B (scfm)	0
20	Drywell H, 4409 (7 conc.)	0
21	Drywell H_ 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	1.7
23	Drywell 0, 4410 (% conc.)	2.1
	AOG System Flow (scfm)	22
25		I Y
	Main Stack Gas Monitor	
26	(uCi/sec)	8.0E+1
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	5.0E+3
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 ~ 30 ft E1.	6
29	D22-RM-4196 ~ 57 ft E1.	12
30	Q22-RM-4197 ~ 23 ft E1.	5
31	D22-RM-4198 - 57 ft E1.	10
32	Drywell Temp (°F)	110
	Suppression Fool Temp (°F)	86
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
341	Particulate (cpm)	1.000
35	Iodine (cpm)	1,000 200
36	Noble Gas (cpm)	100
manine start	The second se	

	AREA RAD MONITORS	m./hr
37	Ra. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 fr Sample Scation	1 2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Feel Poel	1 3
4.1	Between Fuel Fool and Drywell	Diwriscale
42	Turbine Bidg. Sample Station	3
43	SJAZ A (mR/hr) SJAE B (mk/hr)	.210
44	SJAE B (mk/hr)	150
	Rx. Bldg Ventilation Monitor (mR/hr)	
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
47	Turbine Bldg. Roof Vent Flow (sofm)	I
48	Turbine Blag. Roof Vent Monitor (uCi/sec.)	I





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

Operable Inoper le Standby Kunning Yes No Isolated

NA - Not available

Time \_//30

	UDGT Plan (and)	
	HPCI Flow (gpm)	10
	Core Spray A Flow (gpm)	0
	RHR A Flow (gpm)	0
4		10
	Core Spray B Flow (gpm)	0
6		10
7		IY
	CRD Flow (gpm)	>100
	APRM Z	17%
	Reactor Pressure (psig)	925
	Reactor Level (in)	187
12	Main Stack Flow Rate (scfm)	66,000
	Turbine Bldg. Roof Vent	
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	
14	(scfm)	172,000
-	Rx. Bldg. Negative Press	1
15	(inches of water vacuum)	25
16	Suppression Pool Level (in)	-29
17	Drywell Pressure (psig)	.20
18	SBGT Flow A (scfm)	10
19	SBGT Flow B (scfm)	0
20	Drywell H <sub>2</sub> 4409 (% conc.) Drywell H <sub>2</sub> 4410 (% conc.)	0
21	Drywell H_ 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	1.8
23	Drywell 0, 4410 (% conc.)	22
24	AOG System Flow (scfm)	20
25	Off-Site Power Available	IY
	Main Stack Gas Monitor	1
26	(uCi/sec)	8.0E+1
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	5.0E+3
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	6
-	D22-RM-4196 - 57 ft E1.	12
	D22-RM-4197 - 23 ft E1.	5
	D22-RM-4198 - 57 ft E1.	10
	Drywell Temp (°F)	110
33	Suppression Pool Temp (°F)	86
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cpm)	1 000
and the second	Iodine (cpm)	1,000
and the second se	Noble Gas (cpm)	100
	noore ous (spar)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 ft Sample Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downscale
	Turbine Blog. Sample Station	3
43	SJAE A (mR/hr)	200
44	SJIE B (mR/hr)	140
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1,
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
47	Turbine Bldg. Roof Vent Flow (scfm)	I
48	Turtine Bldg. Roof "ent Monitor (uCi/sec.)	T





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT \_2\_)

## Operable Inoperable Standby Running Yes No Isolated

## NA - Not available

Time \_//45

1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	Construction of the Owner of th
3 RHR A Flow (gpm)	0
4 RCIC Flow (gpm)	0
	10
5 Core Spray B Flow (grm) 6 RHR B Flow (grm)	0
	0
7 SLC Injecting	N
8 CRD Flow (gpm)	>100
9 APRM Z	17%
10 Reactor Fressure (psig)	925
11 Reactor Level (in)	187
12 Main Stack Flow Rate (scfm)	66,000
Turbine Bldg. Roof Vent	
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	1
14 (scfm)	172,000
Rx. Bldg. Negative Press	T
15 (inches of water vacuum)	-,25
16 Suppression Pool Level (in)	-29
17 Drywell Pressure (psig)	1.20
18 SBGT Flow A (scfm)	10
19 SBGT Flow B (scfm)	0
20 Drywell H, 4409 (% conc.)	0
21 Drywell H- 4410 (% conc.)	0
22 Drywell 0, 4409 (% conc.)	1.8
23 Drywell 0, 4410 (% conc.)	
24 AOG System Flow (scfm)	2.2
25 Off-Site Power Available	20
Main Stack Gas Monitor	
26 (uCi/sec)	learn
Turbine Bldg. Vent Monitor	8.0E+1
27 (uCi/sec)	E AF+ 2
DRYWELL HIGH RAD MONITOR	5.0E+3
	R/hr
28 D22-RM-4195 - 30 ft E1.	6
29 D22-RM-4196 ~ 57 ft E1.	12
30 D22-RM-4197 ~ 23 ft E1.	5
31 D22-RM-4198 ~ 57 ft E1.	10
32 Drywell Temp (°F)	110_
33 Suppression Pool Temp (°F)	1 86
RX. BLDG. ROOF VENT RAD	1245. 11. 19.14
MONITOR	
34 Particulate (cpm)	1,000
35 Iodine (cpm)	200
36 Noble Gas (cpm)	1 100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	11
	Rx. Bldg. 50 ft Sample	1
	Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downso
42	Turbine Bldg. Sample Station	3
	SJAE A (mR/hr)	200
44	SJAE B (mR/hr)	140
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent Flow (scfm)	T
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	T



mR/hr

2

2

2

Downscale

3 10

#### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

## Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

Time 1200

	HPCI Flow (gpm)	111 222 7	-	LADEA DAD HONTTODE
		14,300-Test		AREA RAD MONITORS
	Core Spray A Flow (gpm)	10	51	Rx. Bldg. 20 ft Airlock
	RHR A Flow (gpm) RCIC Flow (gpm)	0	20	Rx. Bldg. 50 ft Sample
	RCIC FIOW (gpm)	400		Station
	Core Spray B Flow (gpm)	0	23	Rx. Bldg. 50 ft Airlock
	RHR B Flow (gpm)	10	10	Rx. Bldg. North of Fuel
1	SLC Injecting	N	40	Pool
0	CRD Flow (gpm)	>100	11	Between Fuel Pool and
_	APRM Z	4%	41	Drywell
	Reactor Pressure (psig)	1120	10	Turbine Bldg. Sample
	Reactor Level (in)	170		Station
12	Main Stack Flow Rate (scfm)	66,000	43	SJAE A (mR/hr)
	Turbine Bldg. Roof Vent		44	SJAE B (mR/hr)
13	Flow (scfm)	14,000		Rx. Bldg. Ventilation
	Rx. Bldg. Roof Vent Flow		45	Monitor (mR/hr)
4	(scfm)	172,000		Service Water Rad Monitor
	Rx. Bldg. Negative Press		46	(cps)
	(inches of water vacuum)	25		
	Suppression Pool Level (in)	-28.5		OTHER UNIT
	Drywell Pressure (psig)	.27		Turbine Eldg. Roof Vent
	SBGT Flow A (scfm)	10		Flow (scfm)
	SBGT Flow B (scfm)	0		Turbine Bldg. Roof
20	Drywell H, 4409 (% conc.)	0	48	Vent Monitor (uCi/sec.)
1	Drywell H_ 4410 (% conc.)	0		
22	Drywell H <sub>2</sub> 4410 (7 conc.) Drywell O <sub>2</sub> 4409 (7 conc.)	2.0		
3	Drywell 0, 4410 (% conc.)	2.3		
24	AOG System Flow (scfm)	0 Y		
25	Off-Site Power Available	Y		
	Main Stack Gas Monitor			
6	(uCi/sec)	9.0E+1		
	Turbine Bldg. Vent Monitor			
27	(uCi/sec)	5.0E+3		
	DRYWELL HIGH RAD MONITOR	R/hr		
28	D22-RM-4195 - 30 ft E1.	10		
	D22-RM-4196 - 57 ft E1.	18		
	Q22-RM-4197 ~ 23 ft E1.	8		
	D22-RM-4198 - 57 ft E1.	16		
	Drywell Temp (°F)	115		
	Suppression Pool Temp (°F)	90		
	RX. BLDG. ROOF VENT RAD			
	MONITOR	States 44		
	Particulate (cpm)	1,000		
341	ratticulate (com)			
	Iodine (cpm)	200		





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT \_2)

# Operable Inoperable Standby Running Yes No Isolated

NA - Not available

Time 1215

-		
1	HPCI Flow (gpm)	10
2	Core Spray A Flow (gpm)	0
3	RHR A Flow (gpm)	10
4	RCIC Flow (gpm)	400
5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	0
	SLC Injecting	
8	CRD Flow (gpm)	N
-	APRM Z	>100
	Reactor Pressure (psig)	1.5
10	Reactor Fressure (psig)	950
11	Reactor Level (in)	185
	Main Stack Flow Rate (scfm)	66,000
	Turbine Bldg. Roof Vent	1.1.1.1.1.1.1
13	Flow (scfm)	142000
	Rx. Bldg. Roof Vent Flow	
	(scfm)	1172,000
	Rx. Bldg. Negative Press	
15	(inches of water vacuum)	25
16 5	Suppression Pool Level (in)	-28.7
17 1	Drywell Pressure (psig)	1,26
18 5	SBGT Flow A (scfm)	10
1919	BGT Flow B (scfm)	10
20 1	Drywell H, 4409 (% conc.) Drywell H, 4410 (% conc.) Drywell O, 4409 (% conc.) Drywell O, 4410 (% conc.)	0
21 1	Drywell H 4410 (% conc.)	0
22 0	Drywell 0, 4409 (% conc.)	
23 0	rywell 0, 4410 (% conc.)	2.0
24 4	OG System Flow (scfm)	2.3
	off-Site Power Available	
	lain Stack Gas Monitor	<u> </u>
	uCi/sec)	9.0E+1_
	urbine Bldg. Vent Monitor	
	uCi/sec)	5.0E+3
	RYWELL HIGH RAD MONITOR	R/hr
	22-RM-4195 - 30 ft E1.	12
29 D	22-RM-4196 - 57 ft E1.	22
30 D	22-RM-4197 - 23 ft E1.	14
	22-RM-4198 - 57 ft E1.	20
32 D	rywell Temp (°F)	115
	uppre. sion Pool Temp (°F)	96
R	X. BLDG. ROOF VENT RAD	
	ONITOR	
	articulate (cpm)	1,000
	odine (cpm)	
	oble Gas (cpm)	200
- C 1.	oure das (chul)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 ft Sample	
	Station	2
39	Rx. Bldg. 50 ft Airlock	12
	Rx. Bldg. North of Fuel	
40	Pool	12
	Between Fuel Pool and	
	Drywell	Downscal
	Turbine Bldg. Sample	
	Station	3
	SJAE A (mR/hr)	8
44	SJAE B (mR/hr)	5
	Rx. Bldg. Ventilation	
45	Monitor (mR/hr)	1 1
	Service Water Rad Monitor	
46	(cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent	
	Flow (scfm)	I
	Turbine Bldg. Roof	-
8	Vent Monitor (uCi/sec.)	II



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Cerable Inoperable Standby Running Yes No Isolated

# NA - Not available

Time 1230

-		
	HPCI Flow (gpm)	0
_2	Core Spray A Flow (gpm)	0
3	RHR A Flow (gpm)	0
4	RCIC Flow (gpm)	400
5	[Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	0
7		IN
8	CRD Flow (gpm)	>100
9	APRM Z	2.5
TU	Reactor Pressure (psig)	875
11	Reactor Level (in)	183
12	Main Stack Flow Rate (scfm)	66,000
	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	111000
14	(scfm)	172,000
	Rx. Bldg. Negative Press	1 10000
15	(inches of water vacuum)	25
	Suppression Pool Level (in)	- 28
	Drywell Pressure (psig)	,50
18	SBGT Flow A (scfm)	1 0
19	SBGT Flow B (scfm)	10
20	Drywell H, 4409 (% conc.)	0
21	Drywell H_ 4410 (% conc.)	0
- And the second second	Drywell 0, 4409 (% conc.)	2.1
	Drywell 0, 4410 (% conc.)	2.4
	AOG System Flow (scfm)	0
	Off-Site Power Available	1 V
	Main Stack Gas Monitor	
26	(uCi/sec)	9.0E+1
	Turbine Bldg. Vent Monitor	1.02.1
27	(uC1/sec)	8.05+0
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	18
	D22-RM-4196 - 57 ft E1.	
	D22-RM-4197 ~ 23 ft E1.	24
	D22-RM-4198 - 57 ft E1.	20
	Drywell Temp (°F)	
	Suppression Pool Temp (°F)	120
-	RX. BLDG. ROOF VENT RAD	101
	MONITOR	1.000
34	Particulate (cpm)	1 000
35	Iodine (cpm)	1,000
	Noble Gas (cpm)	200
20	noure das (cpu)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1
	Rx. Bldg. 50 ft Sample Station	2
39	Rx. Bldg. 50 ft Airlock	12
40	Rx. Bldg. North of Fuel Pool	2
	Between Fuel Pool and Drywell	Downscale
42	Turbine Bldg. Sample Station	0.3
	SJAE A (mR/hr)	6
44	SJAE B (mR/hr)	14
45	Rx. Bldg. Ventilation Monitor (mR/hr)	1
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent Flow (scfm)	I
	Turbine Bldg. Roof Vent Monitor (µCi/sec.)	I



# EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

NA - Not available

-	HPCI Flow (gpm)	10
	Core Spray A Flow (gpm)	10
	RHR A Flow (gpm)	7500
	RCIC Flow (gpm)	400
	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	7500
7	SLC Injecting	IN
8	CRD Flow (gpm)	1>100
9	APRM Z	2.5
10	Reactor Pressure (psig)	900
11	Reactor Level (in)	1 190
12	Main Stack Flow Rate (scfm)	66,000
	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	1
14	(scfm)	172,000
	Rx. Bldg. Negative Press	1
15	(inches of water vacuum)	25
16	Suppression Pool Level (in)	- 28.2
17	Drywell Pressure (psig)	1.5
18	SBGT Flow A (scfm)	10
19	SBGT Flow B (scfm)	0
20	Drywell H, 4409 (2 conc.) Drywell H, 4410 (2 conc.)	0
21	Drywell H, 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	2.2
	Drywell 0, 4410 (2 conc.)	2.4
24	AOG System Flow (scfm)	0
25		V
	Main Stack Gas Monitor	0.001
26	(uCi/sec)	9.0E+1
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	7.0E+0
_	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	20
	D22-RM-4196 - 57 ft E1.	28
	D22-RM-4197 - 23 ft E1.	18
	D22-RM-4198 - 57 ft E1.	24
	Drywell Temp (°F)	124
33	Suppression Pool Temp (°F)	115
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cpm)	1,000
35	Iodine (cpm)	200
36	Noble Gas (cpm)	100

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	1 1
	Rx. Bldg. 50 ft Sample Station	2
39	Rx. Bldg. 50 ft Airlock	2
40	Rx. Bldg. North of Fuel Pool	2
	Between Fuel Pool and Drywell	Dawnscal
	Turbine Bldg, Sample Station	0.2
43	SJAE A (mR/hr)	5
44	SJAE B (mR/hr)	3
45	Rx. Bldg. Ventilation Monitor (mR/hr)	0.8
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
47	Turbine Bldg. Roof Vent Flow (scfm)	I
8	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	7500
4 RCIC Flow (gpm)	400
5 [Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	1500
7 SLC Injecting	N
8 CRD Flow (gpu)	>100
9 APRM Z	0
10 Reactor Pressure (psig)	900
11 Reactor Level (in)	192
12 Main Stack Flow Rate (scfm	) 72,000
Turbine Bldg. Roof Vent	
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	
14 (scfm)	10
Rx. Bldg. Negative Press	
15 (inches of water vacuum)	25
16 Suppression Pool Level (in)	- 27.5
17 Drywell Pressure (psig)	1.6
18 SBGT Flow A (scfm)	13000
19 SBGT Flow B (scfm)	3000
20 Drywell H, 4409 (7 conc.) 21 Drywell H, 4410 (7 conc.)	0
21 Drywell H_ 4410 (% conc.)	0
22 Drywell 0, 4409 (% conc.)	2.2
23 Drywell 0, 4410 (% conc.)	2.5
24 AOG System Flow (scfm)	10
25 Off-Site Power Available	L V
Main Stack Gas Monitor	
26 (uC1/sec)	1.06+7
Turbine Bldg. Vent Monitor	
27 (uCi/sec)	6.0E+0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	10
29 D22-RM-4196 - 57 ft E1.	1 18
30 D22-RM-4197 - 23 ft E1.	14
31 D22-RM-4198 · 57 ft E1.	1 10
32 Drywell Temp (°F)	127
33 Suppression Pool Temp (°F)	1 122
RX. BLDG. ROOF VENT RAD	
MONITOR	
34 Particulate (cpm)	800
35 Iodine (cpm)	100
36 Noble Gas (cpm)	60

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	Offscale Hig
38	Rx. Bldg. 50 ft Sample Station	OFFscale Hig
39	Rx. Bldg. 50 ft Airlock	10
	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downscale
42	Turbine Bldg. Sample Station	0.2
	SJAE A (mR/hr)	4
44	SJAE B (mR/hr)	2
45	Rx. Bldg. Ventilation Monitor (mR/hr)	0.8
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
47	Turbine Bldg. Roof Vent Flow (scfm)	I
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

# NA - Not available

Time \_/3/5

1 100.02 . 01	
1 HPCI Flow (gpm)	10
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	7500
4 RCIC Flow (gpm)	0
5 Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	7500
7 SLC Injecting	N
8 CRD Flow (gpm)	>100
9 APRM Z	0
10 Reactor Pressure (psig)	910
11 Reactor Level (in)	196
12 Main Stack Flow Rate (scfm)	72,000
Turbine Bldg, Roof Vent	10,000
13 Flow (scfm)	14,000
Rx. Bldg. Roof Vent Flow	11,000
14 (scfm)	0
Rx. Bldg. Negative Press	
15 (inches of water vacuum)	1 20
16 Suppression Pool Level (in)	- 20
17 Drywell Pressure (psig)	-27
18 SBGT Flow A (scfm)	1 3000
19 SBGT Flow B (scfm)	3000
2018 11 11 11 20 11	
20 Drywell H, 4409 (% conc.) 21 Drywell H, 4410 (% conc.) 22 Drywell 0, 4409 (% conc.) 23 Drywell 0, 4409 (% conc.)	0
22 Drywell 0, 4409 (% conc.)	0
23 Drywell 0, 4410 (% conc.)	2.3
24 AOG System Flow (scfm)	2.6
25 Off-Site Power Available	0
Main Stack Gas Monitor	+
	1
26 (uC1/sec)	1,0E+7
Turbine Bldg. Vent Monitor	
27 (uCi/sec)	5.0E+ 0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	4
29 D22-RM-4196 - 57 ft E1.	6
30 D22-RM-4197 - 23 ft E1.	4
31 D22-RM-4198 - 57 ft E1.	6
32 Drywell Temp (°F)	130
33 Suppression Pool Temp (°F)	120
RX. BLDG. ROOF VENT RAD	
MONITOR	
34 Particulate (cpm)	700
35 Iodine (cpm)	
36 Noble Gas (cpm)	100

	Rx. Bldg. 20 ft Airlock Rx. Bldg. 50 ft Sample	Offscale	Sec. Barris
28	Py Bldg 50 6+ Canala	orrscale	Hig
781	A. Bidg. JU it Sample		
	Station	Offscale	Hig
39	Rx. Bldg. 50 ft Airlock	1 10	0
	Rx. Bldg. North of Fuel Pool	2	
	Between Fuel Pool and		
41	Drywell	Downscal	
1	Turbine Bldg. Sample	The second second	-
42 1	Station	0.2	
43	SJAE A (mR/hr)	4	
	SJAE B (mR/hr)	2	
	Rx. Bldg. Ventilation Monitor (mR/hr)	0.8	
	Service Water Rad Monitor (cps)	10	
	OTHER UNIT	10	
T	Surbine Bldg. Roof Vent		
47   F	flow (scfm)	I	
T	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I	

### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

NA - Not available

	HPCI Flow (gpm)	10
	Core Spray A Flow (gpm)	10
	3 RHR A Flow (gpm)	7500
-	RCIC Flow (gpm)	400
	Core Spray B Flow (gpm)	10
	RHR B Flow (gpm)	7500
7	SLC Injecting	N
8	CRD Flow (gpm)	12100
9	APRM Z	0
10	Reactor Pressure (psig)	675
11	Reactor Level (in)	172
	Main Stack Flow Rate (scfm)	72,000
-	Turbine Bldg. Roof Vent	10,000
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	1,000
14	(scfm)	0
	Rx. Bldg. Negative Press	
15	(inches of water vacuum)	>0
	Suppression Pool Level (in)	-21
17		1,8
18	SBGT Flow A (scfm)	1 3000
19	SP T Flow B (sefm)	3000
20		0
21	Drywell H_ 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	2.4
23	Drywell 0, 4410 (% conc.)	2.7
	AOG System Flow (scfm)	0
25		V
	Main Stack Gas Monitor	
26	(uCi/sec)	1.0E+7
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	4.0E+0
_	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	3
29	D22-RM-4196 - 57 ft E1.	6
30	D22-RM-4197 - 23 ft E1.	3
31	D22-RM-4198 - 57 ft E1.	4
32	Drywell Temp (°F)	122
33	Suppression Pool Temp ("F)	116
	RX. BLDG. ROOF VENT RAD	
_	MONITOR	
34	Particulate (cpm)	700
35	Iodine (cpm)	100
36	Noble Gas (cpm)	60

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	Offscale High
38	Rx. Bldg. 50 ft Sample Station	Officale High
39	Rx. Bldg. 50 ft Airlock	10
40	Rx. Bldg. North of Fuel Pool	2
41	Between Fuel Pool and Drywell	Downsca le
	Turbine Bldg. Sample Station	0.2
	SJAE A (mR/hr)	3
44	SJAE B (mR/hr)	12
45	Rx. Bldg. Ventilation Monitor (mR/hr)	0.8
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
	Turbine Bldg. Roof Vent Flow (scfm)	I
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

Operable Inoperable Standby Running Yes No Isolated

NA - Not available

LUDGE EL	
1 HPCI Flow (gpm)	0
2 Core Spray A Flow (gpm)	0
3 RHR A Flow (gpm)	7500
4 RCIC Flow (gpm)	0
5 [Core Spray B Flow (gpm)	0
6 RHR B Flow (gpm)	7500
7 SLC Injecting	IN
8 CRD Flow (gpm)	> 100
9 APRM Z	10
10 Reactor Pressure (psig)	1090
11 Reactor Level (in)	1 190
12 Main Stack Flow Rate (scfm)	72,000
Turbine Bldg. Roof Vent	12,000
13 Flow (scfm)	1 11 000
Rx. Bldg. Roof Vent Flow	14,000
14 (scfm)	0
	10
Rx. Bldg. Negative Press	1
15 (inches of water vacuum)	>0
16 Suppression Pool Level (in)	- 27
17 Drywell Pressure (psig)	.8
18 SBGT Flow A (scfm)	13000
19 SBGT Flow B (scfm)	3000
20 Drywell H, 4409 (% conc.) 21 Drywell H, 4410 (% conc.) 22 Drywell O, 4409 (% conc.)	0
21 Drywell H, 4410 (% conc.)	0
22 Drywell 0, 4409 (% conc.)	2.5
23 Drywell 0, 4410 (% conc.)	2.8
24 AOG System Flow (scfm)	10
25 Off-Site Power Available	IV
Main Stack Gas Monitor	+ ×
26 (uCi/sec)	1.0E+7
Turbine Bldg. Vent Monitor	T.OCT I
27 (uCi/sec)	4.0 5+0
DRYWELL HIGH RAD MONITOR	R/hr
28 D22-RM-4195 - 30 ft E1.	3
29 D22-RM-4196 - 57 ft E1.	
30 D22-RM-4197 - 23 ft E1.	0
31 D22-RM-4198 - 57 ft E1.	2
32 Drywell Temp (°F)	6
	118
33 Suppression Pool Temp (°F)	112
RX. BLDG. ROOF VENT RAD	1.1.1.1.1.1.1
MONITOR	
34 Particulate (cpm)	700
35 Iodine (cpm)	100
36 Noble Gas (cpm)	60

AREA RAD MONITORS	mR/hr
37 Rx. Bldg. 20 ft Airlock	offscak .
Rx. Bldg. 50 ft Sample	
38 Station	Offscale
39 Rx. Bldg. 50 ft Airlock	1 10
Rx. Bldg. North of Fuel	T
40 Pool	12
Between Fuel Pool and	T
41 Drywell	Downsea
Turbine Bldg. Sample	1
42 Station	0.2
43 SJAE A (mR/hr)	3
44 SJAE B (mR/hr)	1 2
Rx. Bldg. Ventilation	1
45 Monitor (mR/hr)	0.8
Service Water Rad Monitor	1
6 (cps)	10
OTHER UNIT	
Turbine Bldg. Roof Vent	
7 Flow (scfm)	II
Turbine Bldg. Roof	
8 Vent Monitor (uCi/sec.)	I



### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

NA - Not available

Time 1400

	HPCI Flow (gpm)	10
2	Core Spray A Flow (gpm)	10
3	RHR A Flow (gpm)	17500
4	RCIC Flow (gpm)	0
- 5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	7500
7	SLC Injecting	N
8	CRD Flow (gpm)	>100
9	APRM Z	0
10	Reactor Pressure (psig)	700
11	Reactor Level (in)	1 192
12	Main Stack Flow Rate (scfm)	72,000
	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	
14	(scfm)	10
	Rx. Bldg. Negative Press	
15	(inches of water vacuum)	>0
16	Suppression Pool Level (in)	- 27
17	Drywell Pressure (psig)	- 27
18	SBGT Flow A (scfm)	13000
19	SBGT Flow B (scfm)	3000
20	Drywell H <sub>2</sub> 4409 (% conc.) Drywell H <sub>2</sub> 4410 (% conc.)	0
21	Drywell H_ 4410 (1 conc.)	0
22	Drywell 0, 4409 (% conc.)	2.5
	Drywell 0, 4410 (% conc.)	2.9
24	AOG System Flow (scfm)	0
25	Off-Site Power Available	V
	Main Stack Gas Monitor	
26	(uC1/sec)	1.0E+7
	Turbine Bldg. Vent Monitor	
27	(uCi/sec)	4.0E+0
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 - 30 ft E1.	3
29	D22-RM-4196 - 57 ft E1.	5
30	Q22-RM-4197 - 23 ft E1.	3
31	D22-RM-4198 - 57 ft E1.	5
32	Drywell Temp (°F)	110
33	Suppression Pool Temp (°F)	109
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cpm)	700
35	Iodine (cpm)	100
36	Noble Gas (cpm)	40

	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	DEFSCale H
	Rx. Bldg. 50 ft Sample	1
	Station	Offscale
39	Rx. Bldg. 50 ft Airlock	1 10
40	Rx. Bldg. North of Fuel Pool	
	Between Fuel Pool and	12
	Drywell	Downscal
	Turbine Bldg. Sample	1
and the second se	Station	0.2
	SJAE A (mR/hr)	3
	SJAE B (mR/hr)	12
45	Rx. Bldg. Ventilation Monitor (mR/hr)	0.8
1	Service Water Rad Monitor	
40	(cps)	10
	OTHER UNIT	
1	Turbine Bldg. Roof Vent	
47 1	Flow (scfm)	I
	Turbine Bldg. Roof	
181	Vent Monitor (uCi/sec.)	I





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

#### NA - Not available

1		
	HPCI Flow (gpm)	10
-	Core Spray A Flow (gpm)	0
	RHR A Flow (gpm)	7500
4	RCIC Flow (gpm)	0
- 5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpm)	7500
7	SLC Injecting	IN
8	CRD Flow (gpm)	12100
and the second sec	APRM Z	10
10	Reactor Pressure (psig)	705
11	Reactor Level (in)	1190
12	Main Stack Flow Rate (scfm)	72,000
	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
_	Rx. Bldg. Roof Vent Flow	T
14	(scfm)	D
	Rx. Bldg. Negative Press	1
15	(inches of water vacuum)	>0
	Suppression Pool Level (in)	
17		-27
18	SBGT Flow A (scfm)	13000
19	SBGT Flow B (scfm)	3000
20		0
21	Drywell H. 4410 (% conc.)	0
22	Drywell 0, 4409 (% conc.)	2.5
23	Drywell 0, 4410 (% conc.)	3.0
	AOG System Flow (scfm)	0
25	Off-Site Power Available	V
	Main Stack Gas Monitor	7
26	(uCi/sec)	1.0E+1
	Turbine Bldg. Vent Monitor	1.001.1
27	(uCi/sec)	4.0E+ 0
	DRYWELL HIGH RAD MONITOR	R/hr
28	D22-RM-4195 ~ 30 ft E1.	3
29	D22-RM-4196 - 57 ft E1.	5
30	D22-RM-4197 - 23 ft E1.	3
	D22-RM-4198 - 57 ft E1.	5
32	Drywell Temp ('F)	105
33	Suppression Pool Temp ("F)	105
	RX. BLDG. ROOF VENT RAD	
	MONITOR	
34	Particulate (cpm)	700
35	Iodine (cpm)	100
36	Noble Gas (cpm)	60
-		

AREA RAD MONITORS	mR/hr
37 Rx. Bldg. 20 ft Airlock	Offscale
Rx. Bldg. 50 ft Sample	Inne
38 Station	ofFsmle
39 Rx. Bldg. 50 ft Airlock	10
Rx. Bldg. North of Fuel	T
40 Pool	12
Between Fuel Pool and 41 Drywell	Dawnsc
Turbine Bldg. Sample	TUNE
42 Station	0.2
43 SJAE A (mR/hr)	2
44 SJAE B (mR/hr)	1
Rx. Bldg. Ventilation 45 Monitor (mR/hr)	0.8
Service Water Rad Monitor	
46 (cps)	10
OTHER UNIT	
Turbine Bldg. Roof Vent	
47 Flow (scfm)	II
Turbine Bldg. Roof 8 Vent Monitor (uCi/sec.)	+
offent nonreor (her/sec.)	1





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

# NA - Not available

-		
1	HPCI Flow (gpm)	10
_2	Core Spray A Flow (gpm)	0
_3	RHR A Flow (gpm)	7500
4	RCIC Flow (gpm)	0
5	Core Spray B Flow (gpm)	0
6		7500
7	SLC Injecting	1 N
8	CRD Flow (gpm)	60
	APRM Z	0
10	Reactor Pressure (psig)	710
11	Reactor Level (in)	190
	Main Stack Flow Rate (scfm)	72,000
	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	Rx. Bldg. Roof Vent Flow	111-
14	(scfm)	10
	Rx. Bldg. Negative Press	
15	(inches of water vacuum)	25
16	Suppression Pool Level (in)	- 27
17	Drywell Pressure (psig)	13
18	SBGT Flow A (scfm)	1.3000
10	CRCT Flow R (acto)	1 3000
20	Drywell H <sub>2</sub> 4409 (Z conc.) Drywell H <sub>2</sub> 4410 (Z conc.)	0
21	Drywell H- 4410 (7 conc.)	
22	Drywell 0, 4409 (% conc.)	24
these discounts	Drywell 0, 4410 (% conc.)	2.6
-	AOG System Flow (scfm)	3.0
	Off-Site Power Available	0
	Main Stack Gas Monitor	×
26	(uCi/sec)	100.0
	Turbine Bldg. Vent Monitor	1.0E+7
27	(uCi/sec)	4.0E+0
	DRYWELL HIGH RAD MONITOR	R/hr
	D22-RM-4195 - 30 ft E1.	3
	D22-RM-4196 - 57 ft E1.	No. of Concession, Name of Concession, Name of Street, Name of Str
30	Q22-RM-4197 - 23 ft E1.	5
311	D22-RM-4198 - 57 ft E1.	5
32	Drywell Temp (°F)	100
331	Suppression Pool Temp (°F)	100
	RX. BLDG. ROOF VENT RAD	101
	MONITOR	
	Particulate (cpm)	000
36	Iodine (cpm)	700
36	Noble Gas (cpm)	100
20	HOULE Gas (Cpm)	60

	RAD MONITORS	mR/hr
37 Rx.	Bldg. 20 ft Airlock	Offscale
Rx.	Bldg. 50 ft Sample	T
38 Stat		Offscale
39 Rx.	Bldg. 50 ft Airlock	10
40 Pool	Bldg. North of Fuel	2
Betwe	en Fuel Pool and	1-2
41 Drywe	11	Downsca
Turbi	ine Bldg. Sample	Tarring
42 Statt	on .	02
43 SJAE		2
44 SJAE	B (mR/hr)	11
	or (mR/hr)	0.8
Servi 6 (cps)	ce Water Rad Monitor	10
	OTHER UNIT	
Turbi	ne Bldg. Roof Vent	
7 Flow		II
Turbi	ne Bldg. Roof	
8 Vent	Monitor (uCi/sec.)	II



# EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

# Operable Inoperable Standby Running Yes No Isolated

NA - Not available

1       HPCI Flow (gpm)       0         2       Core Spray A Flow (gpm)       0         3       RHR A Flow (gpm)       0         4       RCIC Flow (gpm)       0         5       Core Spray B Flow (gpm)       0         6       RHR B Flow (gpm)       0         7       SLC Injecting       N         8       CRD Flow (gpm)       40         9       APRM I       0         10       Reactor Pressure (psig)       7/5         11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg, Roof Vent       13       Flow (scfm)         14       (scfm)       0       74,000         Rx. Bldg. Negative Press       15       (inches of water vacuum)      25         16       Suppression Pool Level (in)       -27       17         17       Drywell Pressure (psig)       .2       3000         20       Drywell R, 4409 (% conc.)       0       2         21       Drywell A (409 (% conc.)       2.7       2         23       Drywell N, 4409 (% conc.)       2.7       2         24       AOG System Flow (scfm)       0	-		
3 RHR A Flow (gpm)       7500         4 RCIC Flow (gpm)       0         5 Core Spray B Flow (gpm)       0         6 RHR B Flow (gpm)       0         7 SLC Injecting       N         8 CRD Flow (gpm)       40         9 APRM X       0         10 Reactor Pressure (psig)       7/500         11 Reactor Level (in)       /90         12 Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       13         13 Flow (scfm)       /4,000         Rx. Bldg. Roof Vent Flow       14 (scfm)         14 (scfm)       0         Rx. Bldg. Negative Press	1	HPCI Flow (gpm)	10
3 RHR A Flow (gpm)       7500         4 RCIC Flow (gpm)       0         5 Core Spray B Flow (gpm)       0         6 RHR B Flow (gpm)       0         7 SLC Injecting       N         8 CRD Flow (gpm)       40         9 APRM X       0         10 Reactor Pressure (psig)       7/500         11 Reactor Level (in)       /90         12 Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       13         13 Flow (scfm)       /4,000         Rx. Bldg. Roof Vent Flow       14 (scfm)         14 (scfm)       0         Rx. Bldg. Negative Press	2	Core Spray A Flow (gpm)	0
4       RCIC Flow (gpm)       0         5       Core Spray B Flow (gpm)       0         6       RHR B Flow (gpm)       7500         7       SLC Injecting       N         8       CRD Flow (gpm)       40         9       APRM I       0         10       Reactor Pressure (psig)       7/5         11       Reactor Pressure (psig)       7/5         11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       14       0         13       Flow (scfm)       0       7500         Rx. Bldg. Negative Press	3	RHR A Flow (gpm)	17500
5       Core Spray B Flow (gpm)       0         6       RHR B Flow (gpm)       7500         7       SLC Injecting       N         8       CRD Flow (gpm)       40         9       APRM I       0         10       Reactor Pressure (psig)       7/5         11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       13       Flow (scfm)       0         Rx. Bldg. Negative Press       0       0       Rx. Bldg. Negative Press         16       Suppression Pool Level (in)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         20       Drywell M_2 4409 (% conc.)       2.7         23       Drywell N_2 4409 (% conc.)       2.7         23       Drywell 0, 4409 (% concl.)       2.7 <t< td=""><td></td><td>RCIC Flow (gpm)</td><td></td></t<>		RCIC Flow (gpm)	
6       RHR B Flow (gpm)       7500         7       SLC Injecting       N         8       CRD Flow (gpm)       40         9       APRM I       0         10       Reactor Pressure (psig)       7/5         11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       13       Flow (scfm)       0         Rx. Bldg. Negative Press       0       0       Rx. Bldg. Negative Press         16       Suppression Pool Level (in)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         20       Drywell M, 4409 (I conc.)       0         21       Drywell N, 4409 (I conc.)       2.7         23       Drywell O, 4409 (I conc.)       2.7         23       Drywell N, 4409 (I conc.)       2.7         24       AOG System Flow (scfm)       0	- 5	(Core Spray B Flow (gpm)	0
7       SLC Injecting       N         8       CRD Flow (gpm)       40         9       APRM I       0         10       Reactor Pressure (psig)       7/5         11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       /13       Flow (scfm)       /14,000         Rx. Bldg. Rocf Vent Flow       /14       (scfm)       0         Rx. Bldg. Negative Press       0       Rx. Bldg. Negative Press	6	RHR B Flow (gpm)	7500
8 CRD Flow (gpm)       60         9 APRM X       0         10 Reactor Pressure (psig)       7/5         11 Reactor Level (in)       /90         12 Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       /4000         13 Flow (scfm)       /4,000         Rx. Bldg. Negative Press       0         14 (scfm)       0         Rx. Bldg. Negative Press       0         15 (inches of water vacuum)      25         16 Suppression Pool Level (in)       -27         17 Drywell Pressure (psig)       .2         18 SBGT Flow A (scfm)       3000         20 Drywell Pressure (psig)       .2         18 SBGT Flow B (scfm)       3000         20 Drywell H_4409 (% conc.)       0         21 Drywell 0, 4409 (% conc.)       2.7         23 Drywell 0, 4409 (% conc.)       2.7         24 AOC System Flow (scfm)       0         25 Off-Site Power Available       Y         Main Stack Gas Monitor       26         26 (uCi/sec)       (.0E+7         Turbine Bldg. Vent Monitor       2         27 (uCi/sec)       1.0E+7         31 D22-RM-4195 - 30 ft E1.       3         32 Drywell Temp (*F)       1	7	SLC Injecting	
9 APRM I       0         10 Reactor Pressure (psig)       7/5         11 Reactor Level (in)       /90         12 Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       74,000         13 Flow (scfm)       /4,000         Rx. Bldg. Rocf Vent Flow       0         Rx. Bldg. Negative Press       0         Rx. Bldg. Negative Press       0         16 Suppression Pool Level (in)       - 27         17 Drywell Pressure (psig)       .2         18 SBGT Flow A (scfm)       3000         20 Drywell H, 4409 (I conc.)       0         21 Drywell M, 4409 (I conc.)       0         22 Drywell 0, 4409 (I conc.)       2.7         23 Drywell 0, 4409 (I conc.)       2.7         23 Drywell 0, 4409 (I conc.)       2.7         24 AOC System Flow (scfm)       0         25 Off-Site Power Available       Y         Main Stack Gas Monitor       26 (µCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       2.0 E+0         27 (µCi/sec)       1.0E+7       3.1         29 D22-RM-4195 - 30 ft E1.       3         31 D22-RM-4195 - 57 ft E1.       3         32 Drywell Temp (F)       100         33 Suppression Pool Temp	8	(CRD Flow (gpm)	
10       Reactor Pressure (psig)       7/5         11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       /13         13       Flow (scfm)       /14,000         Rx. Bldg. Rocf Vent Flow       /14         14       (scfm)       0         Rx. Bldg. Negative Press       0         16       Suppression Pool Level (in)       -27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         20       Drywell M, 4409       (% conc.)       0         21       Drywell M, 4409       (% conc.)       0         22       Drywell M, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell N, 4409       (% conc.)       2.7         24       AOG System Flow (scfm)       0       0         25       Off-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec) </td <td>9</td> <td>APRM Z</td> <td></td>	9	APRM Z	
11       Reactor Level (in)       /90         12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       13       Flow (scfm)       /4,000         Rx. Bldg. Rocf Vent Flow       14       (scfm)       0         Rx. Bldg. Negative Press       0       0       Rx. Bldg. Negative Press         15       (inches of water vacuum)      25       0         16       Suppression Pool Level (in)      27       17         17       Drywell Pressure (psig)       .2       3000         18       SBGT Flow A (scfm)       3000       3000         20       Drywell H, 4409       (% conc.)       0         21       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       3.1         24       AOG System Flow (scfm)       0       0         25       Cff-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec)       /.0 E+0       DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 - 30 ft E1.	10	Reactor Pressure (psig)	NAMES OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.
12       Main Stack Flow Rate (scfm)       72,000         Turbine Bldg. Roof Vent       13       Flow (scfm)       /4,000         Rx. Bldg. Rocf Vent Flow       0       0         Rx. Bldg. Negative Press       0         14       (scfm)       0         Rx. Bldg. Negative Press       0         15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         20       Drywell H_ 4409       (% conc.)       0         21       Drywell H_ 4410       (% conc.)       0         22       Drywell 0, 4409       (% conc.)       2.7         23       Drywell 0, 4409       (% conc.)       2.7         23       Drywell 0, 4409       (% conc.)       2.7         23       Drywell 0, 4409       (% conc.)       2.7         24       AOG System Flow (scfm)       0       0         25       Off-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec)       /.0E+7       1.0E+7         Turbine Bldg. Vent Monitor       7       2.0E+0	11	Reactor Level (in)	
Turbine Bldg. Roof Vent         13 Flow (scfm)       /4,000         Rx. Bldg. Rocf Vent Flow       0         14 (scfm)       0         Rx. Bldg. Negative Press       0         15 (inches of water vacuum)      25         16 Suppression Pool Level (in)      27         17 Drywell Pressure (psig)       .2         18 SBGT Flow A (scfm)       3000         19 SBGT Flow B (scfm)       3000         20 Drywell H, 4409 (I conc.)       0         21 Drywell H, 4409 (I conc.)       0         22 Drywell O, 4409 (I conc.)       2.7         23 Drywell O, 4409 (I conc.)       2.7         23 Drywell O, 4409 (I conc.)       2.7         23 Drywell O, 4409 (I conc.)       3.1         24 AOG System Flow (scfm)       0         25 Off-Site Power Available       Y         Main Stack Gas Monitor       1.0E+7         7 (uCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       2         29 D22-RM-4195 - 30 ft El.       3         31 D22-RM-4195 - 57 ft El.       5         32 Drywell Temp (F)       100         33 Suppression Pool Temp (F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate	12	Main Stack Flow Rate (scfm)	
13       Flow (scfm)       /4,000         Rx. Bldg. Rocf Vent Flow       0         14       (scfm)       0         Rx. Bldg. Negative Press       0         15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         22       Drywell H, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         24       AOG System Flow (scfm)       0       0         25       Cff-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec)       /.0E+7       10E+7         Turbine Bldg. Vent Monitor       3       3       3 <td>-</td> <td>Turbine Bide, Boof Vent</td> <td>112,000</td>	-	Turbine Bide, Boof Vent	112,000
Rx. Bldg. Rocf Vent Flow       0         I4 (scfm)       0         Rx. Bldg. Negative Press       0         I5 (inches of water vacuum)      25         I6 Suppression Pool Level (in)       -27         I7 Drywell Pressure (psig)       .2         I8 SBGT Flow A (scfm)       3000         19 SBGT Flow B (scfm)       3000         20 Drywell H, 4409 (% conc.)       0         21 Drywell O, 4409 (% conc.)       0         22 Drywell O, 4409 (% conc.)       2.7         23 Drywell O, 4409 (% conc.)       2.7         23 Drywell O, 4409 (% conc.)       3.1         24 AOG System Flow (scfm)       0         25 Off-Site Power Available       Y         Main Stack Gas Monitor       1.0E+7         Turbine Bldg. Vent Monitor       2.7         27 (uC1/sec)       1.0E+7         DRYWELL HIGH RAD MONITOR       R/hr         28 D22-RM-4195 ~ 30 ft E1.       3         31 D22-RM-4195 ~ 57 ft E1.       5         32 Drywell Temp (°F)       100         33 Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       100         35 Iodine (cpm)       100 <td>13</td> <td></td> <td>11/ 110</td>	13		11/ 110
14       (scfm)       O         Rx. Bldg. Negative Press       15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         19       SBGT Flow B (scfm)       3000         20       Drywell M, 4409       (Z conc.)       O         21       Drywell H, 4409       (Z conc.)       O         22       Drywell O, 4409       (Z conc.)       O         23       Drywell O, 4409       (Z conc.)       2.7         23       Drywell O, 4409       (Z conc.)       2.7         23       Drywell O, 4410       (Z conc.)       2.7         23       Drywell O, 4410       (Z conc.)       2.7         23       Drywell O, 4410       (Z conc.)       3.1         24       AOG System Flow (scfm)       O       0         25       Off-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec)       1.0E+7       Turbine Bldg. Vent Monitor       2.7         27       (µCi/sec)       4.0 E+0       5.7 ft E1.       3       3         29 <td></td> <td></td> <td>17,000</td>			17,000
Rx. Bldg. Negative Press         15 (inches of water vacuum)        25         16 Suppression Pool Level (in)         17 Drywell Pressure (psig)         18 SBGT Flow A (scfm)         19 SBGT Flow B (scfm)         2000         19 SBGT Flow B (scfm)         2000         21 Drywell H, 4409 (% conc.)         22 Drywell 0, 4409 (% conc.)         23 Drywell 0, 4409 (% conc.)         24 AOG System Flow (scfm)         0         25 Off-Site Power Available         Y         Main Stack Gas Monitor         26 (µCi/sec)         Inrubine Bldg. Vent Monitor         27 (µCi/sec)         PRYWELL HIGH RAD MONITOR         R/hr         28 D22-RM-4195 - 30 ft E1.         31 D22-RM-4195 - 57 ft E1.         32 Drywell Temp (°F)         33 Suppression Pool Temp (°F)         97         RX. BLDG. ROOF VENT RAD         MONITOR         34 Particulate (cpm)         34 Particulate (cpm)	14		
15       (inches of water vacuum)      25         16       Suppression Pool Level (in)      27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         19       SBGT Flow B (scfm)       3000         20       Drywell M, 4409       (% conc.)       0         21       Drywell M, 4409       (% conc.)       0         21       Drywell O, 4409       (% conc.)       0         22       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       2.7         24       AOG System Flow (scfm)       0       0         25       Cff-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec)       (µCi/sec)       (µCet/7)         Turbine Bldg. Vent Monitor       2       2       2         27       (µCi/sec)       (µCet/7)       3       3         29       D22-RM-4195 - 30 ft El.       3	14		0
16       Suppression Pool Level (in)       -27         17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         19       SBGT Flow B (scfm)       3000         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         21       Drywell O, 4409       (% conc.)       0         22       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4400       (% conc.)       2.7         23       Drywell O, 4400       (% conc.)       2.7         23       Drywell O, 4400       (% conc.)       2.7         24       AOG System Flow (scfm)       0       0         25       Off-Site Power Available       Y       Main Stack Gas Monitor         26       (µCi/sec)       (µOE+7)       10E+7         Turbine Bldg. Vent Monitor       27       (µCi/sec)       (µOE+7)         DRYWELL HIGH RAD MONITOR       R/hr       3       3         29       D22-RM-4195 - 30 ft El.       3       3         31       D22-RM-4198 - 57 ft El.       5       3         32       Drywell Temp (*F)       100<	10	A. Bidg. Negative Press	
17       Drywell Pressure (psig)       .2         18       SBGT Flow A (scfm)       3000         19       SBGT Flow B (scfm)       3000         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         21       Drywell O, 4409       (% conc.)       0         22       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       3.1         24       AOG System Flow (scfm)       0         25       Off-Site Power Available       Y         Main Stack Gas Monitor       1.0E+7         7       (uCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       2.7         27       (uCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 ~ 30 ft E1.       3         30       D22-RM-4196 ~ 57 ft E1.       5         31       D22-RM-4198 ~ 57 ft E1.       5         32       Drywell Temp (*F)       100         33       Suppression Pool Temp (*F)       97         RX. BLDG. ROOF VEN	10	(inches of water vacuum)	25
18       SBGT Flow A (scfm)       3000         19       SBGT Flow B (scfm)       3000         20       Drywell H, 4409 (% conc.)       0         21       Drywell H, 4409 (% conc.)       0         22       Drywell 0, 4409 (% conc.)       0         23       Drywell 0, 4409 (% conc.)       2.7         23       Drywell 0, 4410 (% conc.)       2.7         24       AOG System Flow (scfm)       0         25       Off-Site Power Available       Y         Main Stack Gas Monitor       1.0E+7         7       (uCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       2.7         27       (uCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 ~ 30 ft E1.       3         31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (*F)       100         33       Suppression Pool Temp (*F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34		Suppression Pool Level (in)	-27
19       SBGT Flow B (scfm)       3000         20       Drywell H, 4409       (% conc.)       0         21       Drywell H, 4409       (% conc.)       0         22       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       3.1         24       AOG System Flow (scfm)       0         25       Off-Site Power Available       Y         Main Stack Gas Monitor       1.0E+7         Turbine Bldg. Vent Monitor       2.6         27       (µCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       2.7         27       (µCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 ~ 30 ft E1.       3         29       D22-RM-4196 - 57 ft E1.       5         30       D22-RM-4197 ~ 23 ft E1.       3         31       D22-RM-4198 ~ 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR       700         34       Particulate (cpm) </td <td>-</td> <td>Drywell Pressure (psig)</td> <td>1.2</td>	-	Drywell Pressure (psig)	1.2
20       Drywell H, 4409 (% conc.)       0         21       Drywell H, 4410 (% conc.)       0         22       Drywell O, 4409 (% conc.)       2.7         23       Drywell O, 4409 (% conc.)       2.7         24       AOG System Flow (scfm)       0         25       Off-Site Power Available       Y         Main Stack Gas Monitor       100       26         26       (µCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       27       (µCi/sec)         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 - 30 ft El.       3         30       D22-RM-4196 - 57 ft El.       5         31       D22-RM-4198 - 57 ft El.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD <t< td=""><td>18</td><td>SBGT Flow A (scfm)</td><td>CONTRACTOR OF THE OWNER OWNER</td></t<>	18	SBGT Flow A (scfm)	CONTRACTOR OF THE OWNER
21       Drywell H, 4410       (% conc.)       0         22       Drywell O, 4409       (% conc.)       2.7         23       Drywell O, 4410       (% conc.)       3.1         24       AOG System Flow (scfm)       0         25       Cff-Site Power Available       Y         Main Stack Gas Monitor       1.0E+7         Turbine Bldg. Vent Monitor       1.0E+7         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 - 30 ft E1.       3         29       D22-RM-4196 - 57 ft E1.       5         30       D22-RM-4197 - 23 ft E1.       3         31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       700         35       Iodine (cpm)       100			3000
24AOGSystemFlow (scfm)O25Cff-SitePower AvailableYMainStack GasMonitor26(µCi/sec)(.OE+7)TurbineBldg.VentMonitor27(µCi/sec)DRYWELLHIGHRADMONITORR/hr28D22-RM-4195 - 30ft E1.29D22-RM-4196 - 57ft E1.30D22-RM-4197 - 23ft E1.31D22-RM-4198 - 57ft E1.32DrywellTemp (°F)33SuppressionPool34Particulate (cpm)70035Iodine (cpm)100	20	Drywell H, 4409 (% conc.)	0
24AOGSystemFlow (scfm)O25Cff-SitePower AvailableYMainStack GasMonitor26(µCi/sec)(.OE+7)TurbineBldg.VentMonitor27(µCi/sec)DRYWELLHIGHRADMONITORR/hr28D22-RM-4195 - 30ft E1.29D22-RM-4196 - 57ft E1.30D22-RM-4197 - 23ft E1.31D22-RM-4198 - 57ft E1.32DrywellTemp (°F)33SuppressionPool34Particulate (cpm)70035Iodine (cpm)100	21	Drywell H_ 4410 (% conc.)	0
24AOGSystemFlow (scfm)O25Cff-SitePower AvailableYMainStack GasMonitor26(µCi/sec)(.OE+7)TurbineBldg.VentMonitor27(µCi/sec)DRYWELLHIGHRADMONITORR/hr28D22-RM-4195 - 30ft E1.29D22-RM-4196 - 57ft E1.30D22-RM-4197 - 23ft E1.31D22-RM-4198 - 57ft E1.32DrywellTemp (°F)33SuppressionPool34Particulate (cpm)70035Iodine (cpm)100	22	Drywell 0, 4409 (% conc.)	2.7
24AOGSystemFlow (scfm)O25Cff-SitePower AvailableYMainStack GasMonitor26(µCi/sec)(.OE+7)TurbineBldg.VentMonitor27(µCi/sec)DRYWELLHIGHRADMONITORR/hr28D22-RM-4195 - 30ft E1.29D22-RM-4196 - 57ft E1.30D22-RM-4197 - 23ft E1.31D22-RM-4198 - 57ft E1.32DrywellTemp (°F)33SuppressionPool34Particulate (cpm)70035Iodine (cpm)100	23	Drywell 0, 4410 (2 conc.)	
25       Off-Site Power Available       Y         Main Stack Gas Monitor       Main Stack Gas Monitor       1.0E+7         26       (µCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       27       (µCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 ~ 30 ft E1.       3         29       D22-RM-4195 ~ 30 ft E1.       3         30       D22-RM-4196 ~ 57 ft E1.       5         30       D22-RM-4197 ~ 23 ft E1.       3         31       D22-RM-4198 ~ 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       700         35       Iodine (cpm)       100	24	AOG System Flow (scfm)	
Main Stack Gas Monitor         26 (µCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor         27 (µCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28 D22-RM-4195 - 30 ft E1.       3         29 D22-RM-4195 - 57 ft E1.       5         30 Q22-RM-4196 - 57 ft E1.       5         31 D22-RM-4197 - 23 ft E1.       5         32 Drywell Temp (°F)       100         33 Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       700         35 Iodine (cpm)       100	25	Off-Site Power Available	V
26       (µCi/sec)       1.0E+7         Turbine Bldg. Vent Monitor       27         27       (µCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 ~ 30 ft E1.       3         29       D22-RM-4196 ~ 57 ft E1.       5         30       D22-RM-4196 ~ 57 ft E1.       5         31       D22-RM-4198 ~ 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       100	-	Main Stack Gas Monitor	
Turbine Bldg. Vent Monitor         27 (uCi/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28 D22-RM-4195 - 30 ft E1.       3         29 D22-RM-4196 - 57 ft E1.       5         30 D22-RM-4196 - 57 ft E1.       5         31 D22-RM-4198 - 57 ft E1.       5         32 Drywell Temp (°F)       100         33 Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34 Particulate (cpm)       700         35 Iodine (cpm)       100	26		I.DE+7
27       (uC1/sec)       4.0 E+0         DRYWELL HIGH RAD MONITOR       R/hr         28       D22-RM-4195 - 30 ft E1.       3         29       D22-RM-4196 - 57 ft E1.       5         30       D22-RM-4197 - 23 ft E1.       5         31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       700         35       Iodine (cpm)       100			1
DRYWELL HIGH RAD MONITOR         R/hr           28         D22-RM-4195 ~ 30 ft E1.         3           29         D22-RM-4196 ~ 57 ft E1.         5           30         D22-RM-4196 ~ 57 ft E1.         5           31         D22-RM-4197 ~ 23 ft E1.         3           31         D22-RM-4198 ~ 57 ft E1.         5           32         Drywell Temp (°F)         j00           33         Suppression Pool Temp (°F)         97           RX.         BLDG.         ROOF VENT RAD           MONITOR         700           35         Iodine (cpm)         100	27	(uCi/sec)	4.0 EtO
28       D22-RM-4195 - 30 ft E1.       3         29       D22-RM-4196 - 57 ft E1.       5         30       D22-RM-4197 - 23 ft E1.       5         31       D22-RM-4197 - 23 ft E1.       3         31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX.       BLDG.       ROOF VENT RAD         MONITOR       700         35       Iodine (cpm)       100			
29       D22-RM-4196 - 57 ft E1.       5         30       D22-RM-4197 - 23 ft E1.       3         31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       700         35       Iodine (cpm)       100	28		Providence of the local division of the loca
30       Q22-RM-4197 - 23 ft E1.       3         31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD MONITOR       700         34       Particulate (cpm)       100	Statement of the local division of the local	and the second	5
31       D22-RM-4198 - 57 ft E1.       5         32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       97         MONITOR       700         35       Iodine (cpm)       100			3
32       Drywell Temp (°F)       100         33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       97         MONITOR       34         34       Particulate (cpm)       700         35       Iodine (cpm)       100			And an international statements of the second statements of
33       Suppression Pool Temp (°F)       97         RX. BLDG. ROOF VENT RAD       MONITOR         34       Particulate (cpm)       700         35       Iodine (cpm)       100			100
RX. BLDG. ROOF VENT RAD         MONITOR         34 Particulate (cpm)         35 Iodine (cpm)         100	22		
MONITOR 34 Particulate (cpm) 700 35 Iodine (cpm) 100		BY BIDG BOOF USET BAD	97
34 Particulate (cpm)         700           35 Iodine (cpm)         100			
35 Iodine (cpm) 100	24		
24 11 11 0		rarticulate (cpm)	700
Jo Noble Gas (cpm) 60	30	logine (cpm)	
	20	NODIE Gas (cpm)	60

_	AREA RAD MONITORS	mR/hr
37	Rx. Bldg. 20 ft Airlock	Offscale High
	Rx. Bldg. 50 ft Sample Station	OFFscale High
39	Rx. Bldg. 50 ft Airlock	T 10
40	Rx. Bldg. North of Fuel Pool	12
41	Between Fuel Pool and Drywell	Downscale
	Turbine Bldg. Sample Station	0.2
	SJAE A (mR/hr)	2
44	SJAE B (mR/hr)	1
45	Rx. Bldg. Ventilation Monitor (mR/hr)	0.8
46	Service Water Rad Monitor (cps)	10
	OTHER UNIT	
.7	Turbine Bldg. Roof Vent Flow (scfm)	Ŧ
	Turbine Bldg. Roof Vent Monitor (uCi/sec.)	I





### EXHIBIT 2.6.21-4 SAFETY PARAMETER DISPLAY SYSTEM (UNIT 2)

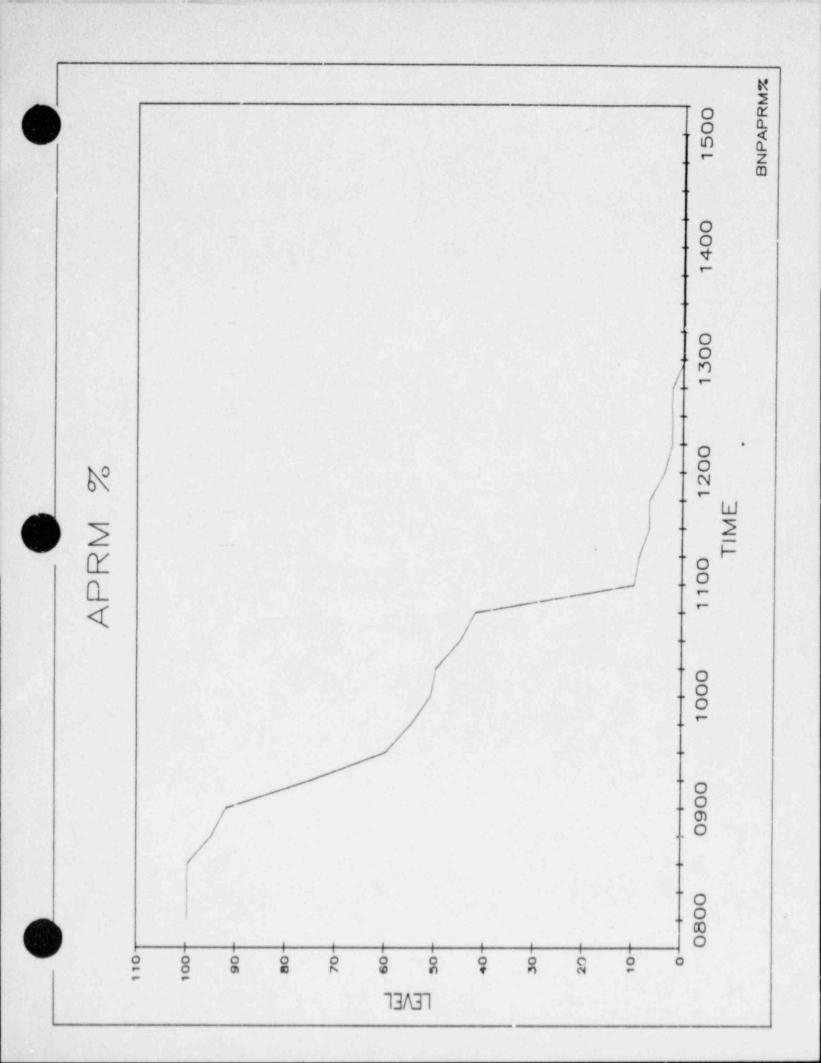
# Operable Inoperable Standby Running Yes No Isolated

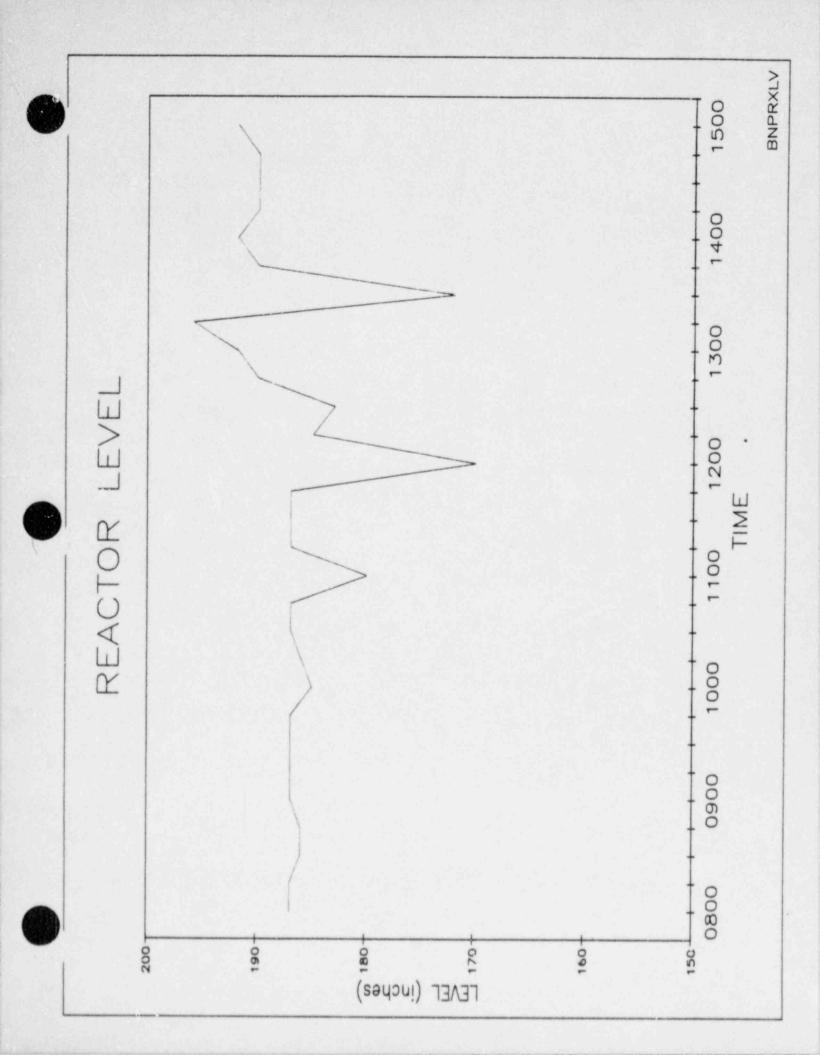
NA - Not available

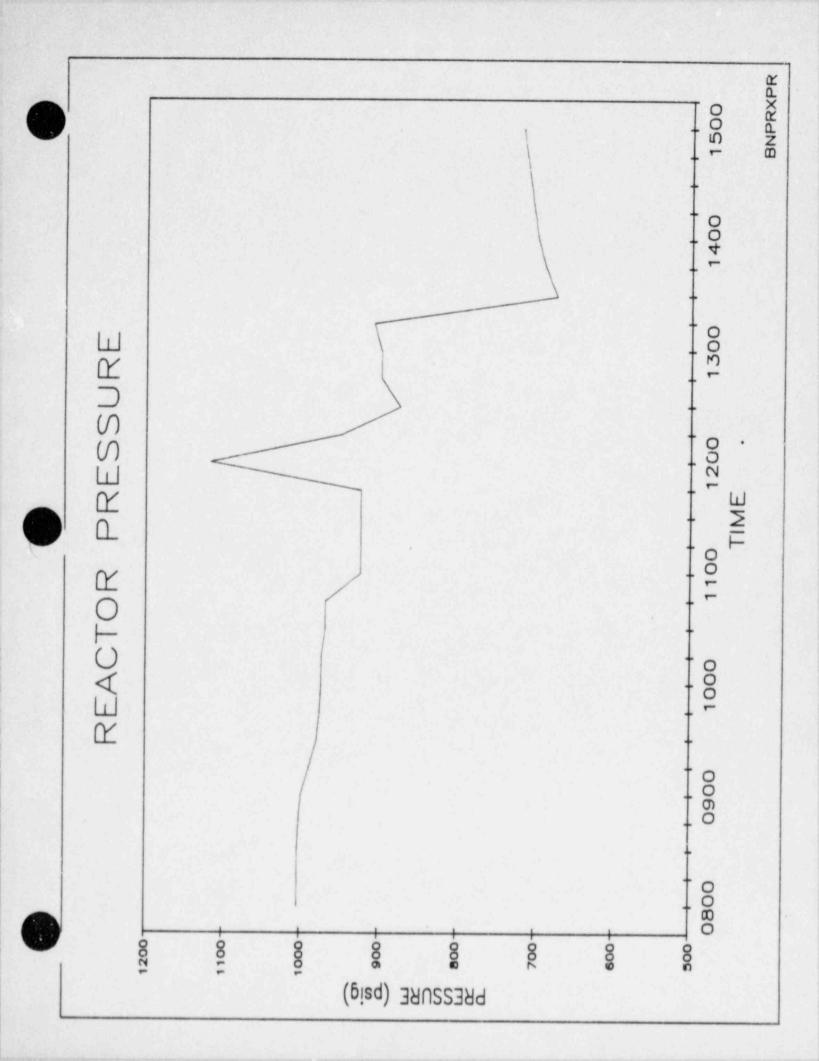
1	(HPCI Flow (gpm)	10
2	Core Spray A Flow (gpm)	0
	RHR A Flow (gpm)	7500
4		0
5	Core Spray B Flow (gpm)	0
6	RHR B Flow (gpt)	7500
7	SLC Injecting	N
	CRD Flow (gpm)	60
	APRM Z	0
10	Reactor Pressure (psig)	720
11	Reactor Level (in)	1 192
12	Main Stack Flow Kate (scfm)	72,000
	Turbine Bldg. Roof Vent	1
13	Flow (scfm)	14,000
	RN. Bldg. Roof Vent Flow	1,000
14	(scfm)	0
	Rx. Bldg, Negative Press	1
15	(inches of water vacuum)	- 25
16	Suppression Pool Level (in)	- 27
	Drywell Pressure (psig)	1.2
18	SBGT Flow A (scfm)	13000
191	SBGT Flow B (scfm)	3000
201	Drywell H, 4409 (Z conc.) Drywell H, 4410 (Z conc.)	0
21	Drywell H, 4410 (I conc.)	0
221	Drywell 0, 4409 (% conc.)	2.8
231	Drywell 0, 4409 (% conc.) Drywell 0, 4410 (% conc.)	3.1
	AOG System Flow (scfm)	0
	Off-Site Power Available	
	Main Stack Gas Monitor	
	(uCi/sec)	1.0E+7
	Turbine Bldg. Vent Monitor	1.0011
	(uCi/sec)	4.0 E+0
	DRYWELL HIGH RAD MONITOR	R/hr
	D22-RM-4195 - 30 ft E1.	3
CONTRACTOR OF THE OWNER.	D22-RM-4196 - 57 ft E1.	5
	Q22-RM-4197 - 23 ft E1.	3
31	D22-RM-4198 - 57 fr F1.	5
32 1	Drywell Temp (°F)	98
33	Suppression Pool Temp (°F)	94
-	RX. BLDG. ROOF VENT RAD	11
	MONITOR	
	Particulate (cpm)	700
35	Iodine (cpm)	100
36	Noble Gas (cpm)	60
	cere ous (epui)	

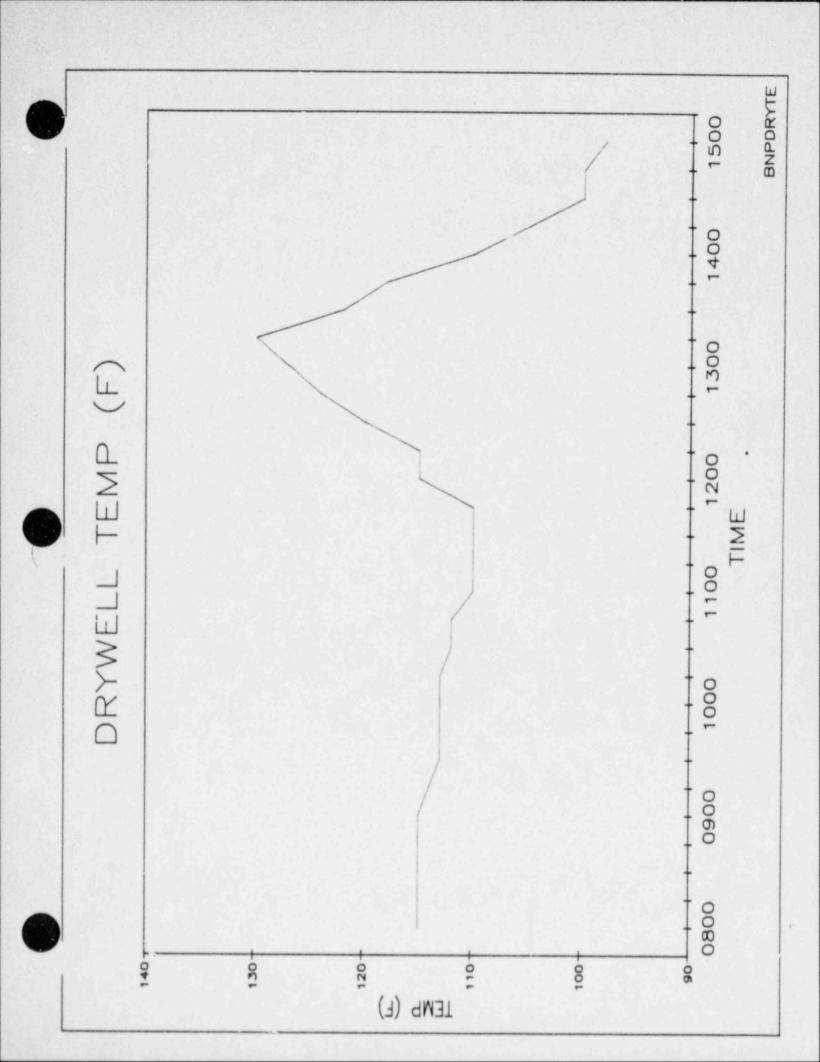
	REA RAD MONITORS	mR/hr
37 R	x. Bldg. 20 ft Airlock	Offscale
R	x. Bldg. 50 ft Sample	
	tation	Offscale 1
	x. Bldg. 50 ft Airlock	10
	x. Bldg. North of Fuel	
40 P		12
	etween Fuel Pool and	
	rywell	DOMISCA
	urbine Bldg. Sample	
Concernance of the second	tation	0.2
	JAE A (mR/hr)	12
	JAE B (mR/hr)	1
R	. Bldg. Ventilation	1
45 Ma	onitor (mR/hr)	0.8
Se	rvice Water Rad Monitor	
46 (0	:ps)	10
	OTHER UNIT	
Tu	rbine Bldg. Roof Vent	
47 F1	.ow (scfm)	II
	rbine Bldg. Roof	
.8  Ve	nt Monitor (uCi/sec.)	II

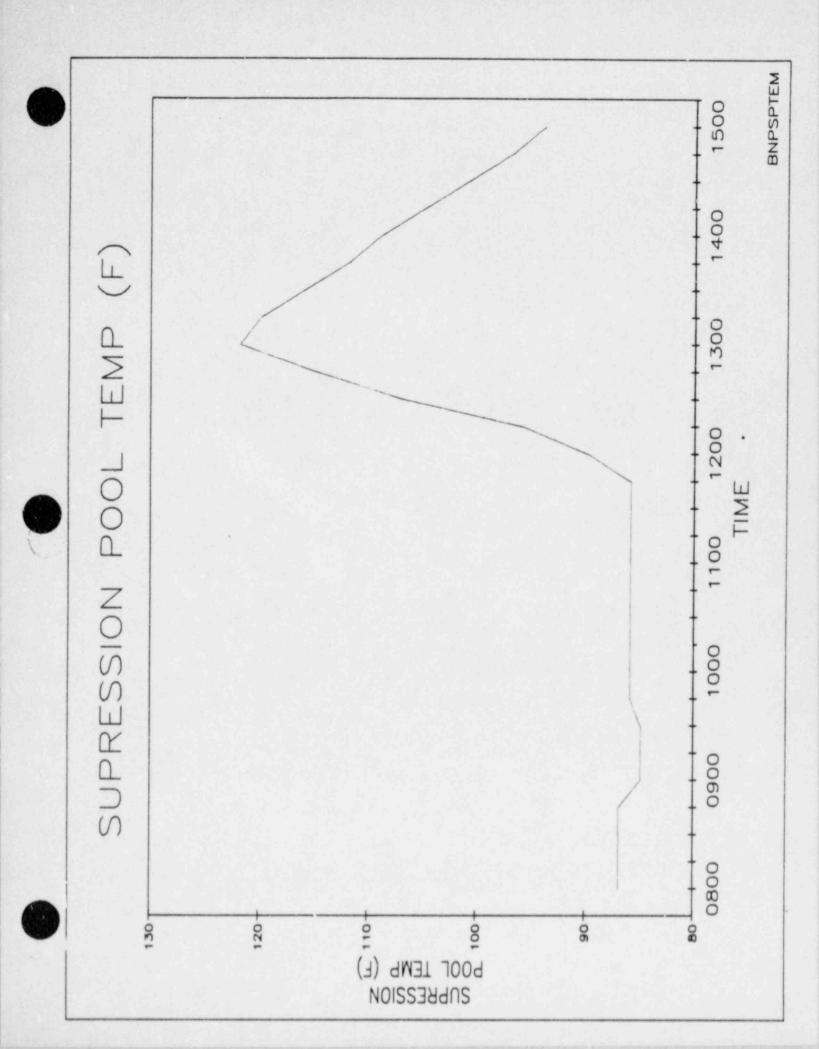












#### BRUNSWICK ANNUAL EMERGENCY EXERCISE (UNIT 2 REACTOR BUILDING RADIOLOGICAL CONDITIONS)

Prior to 1300 hours, all radiological conditions in the Unit 2 Reactor Building will be "as read." From 1300 hours until drill termination (except in the North and South RHR rooms, where radiation levels will increase at 1245 hours), radiological conditions will be elevated due to the following:

- Dumping of reactor coolant into the reactor building due to the scram discharge volume failure.
- Buildup of radioactive material in the Standby Gas Treatment System.
- Operation of RHR loops A and B.

The following attachments provide radiation and airborne radioactivity levels in affected areas of the Reactor Building.

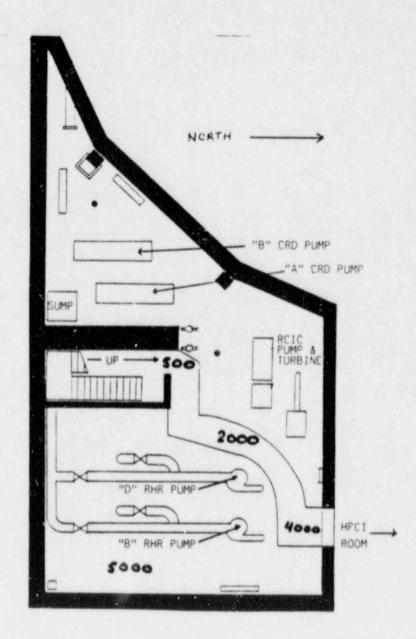
After 1300 hours contamination surveys on the Reactor Building - 17 ft., 20 ft., and 50 ft. levels are 500,000 DPM/100<sup>2</sup>cm. On the 80 ft. level contamination surveys show 10,000 DPM/100<sup>2</sup>cm.



(87-6HRG/pcj)

#### IN-PLANT RADIOLOGICAL SURVEY RESULTS UNIT 2 REACTOR BUILDING -17' ELEVATION (SOUTH RHR)

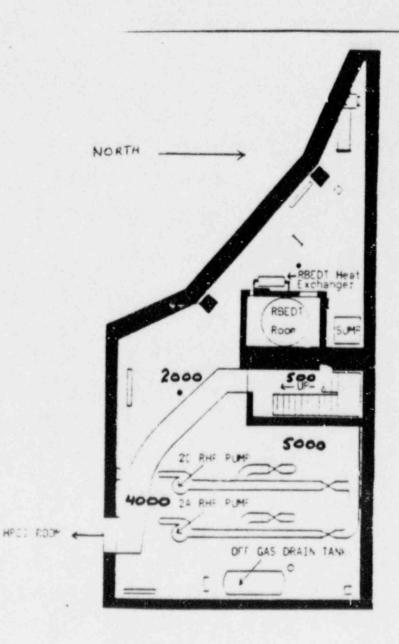
Time: 1245 to 1500 Hours Note: All readings in mR/hr





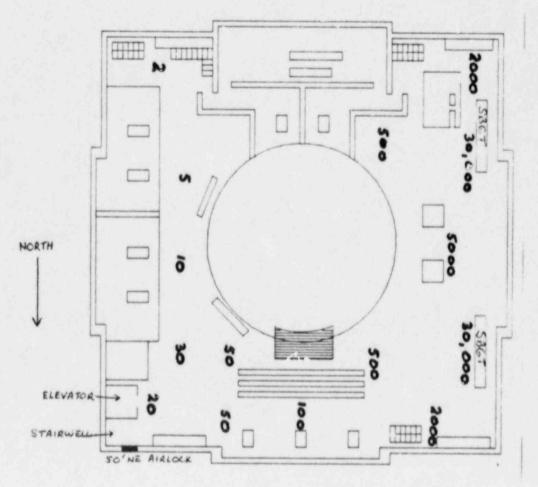
IN-PLANT RADIOLOGICAL SURVEY RESULTS UNIT 2 REACTOR BUILDING -17' ELEVATION (NORTH RHR)

Time: 1245 to 1500 hours Note: All readings in mR/hr



#### IN-PLANT RADIOLOGICAL SURVEY RESULTS UNIT 2 REACTOR BUILDING 50' ELEVATION

Time: 1300 to 1500 hours Note: All readings in mR/hr

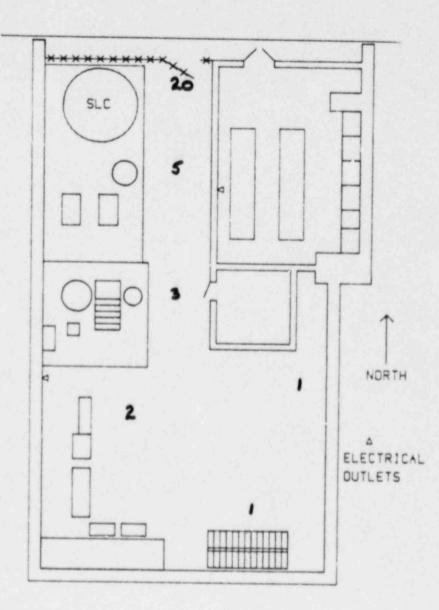






IN-PLANT RADIOLOGICAL SURVEY RESULTS UNIT 2 REACTOR BUILDING 80' ELEVATION (EAST SIDE)

Time: 1300 to 1500 hours Note: All readings in mR/hr

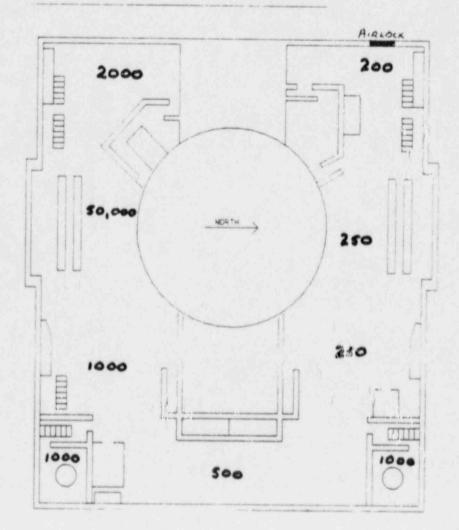




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#### IN-PLANT RADIOLOGICAL SURVEY RESULTS UNIT 2 REACTOR BUILDING 20' ELEVATION

Time: 1300 to 1500 hours Note: All readings in mR/hr







#### UNIT 2 REACTOR BUILDING AIR SAMPLES

Air samples obtained in the Unit 2 Reactor Building after 1300 hours will indicate the following activities:

Location	Gross Activity (uCi/cc)	MPC
-17' Elevation (all)	4.46 E-6	12
20' Elevation (south side)	3.22 E-4	140
20' Elevation (north side)	6.87 E-5	30
50' Elevation (all)	6.48 E-8	0.7
80' Elevation (all)	3.28 E-9	0.06



(87-6HRG/pcj)

#### BRUNSWICK ANNUAL EMERGENCY EXERCISE (11/17/87) (TURBINE BUILDING RADIOLOGICAL CONPITIONS)

Between 1100 and 1230 hours, a quantity of radioactive steam is released into the Turbine Building due to a Main Steam Isolation Valve failing to close. The following survey maps indicate expected dose rates (mR/hr). Areas not covered by survey maps will be considered to have dose rates "as read."

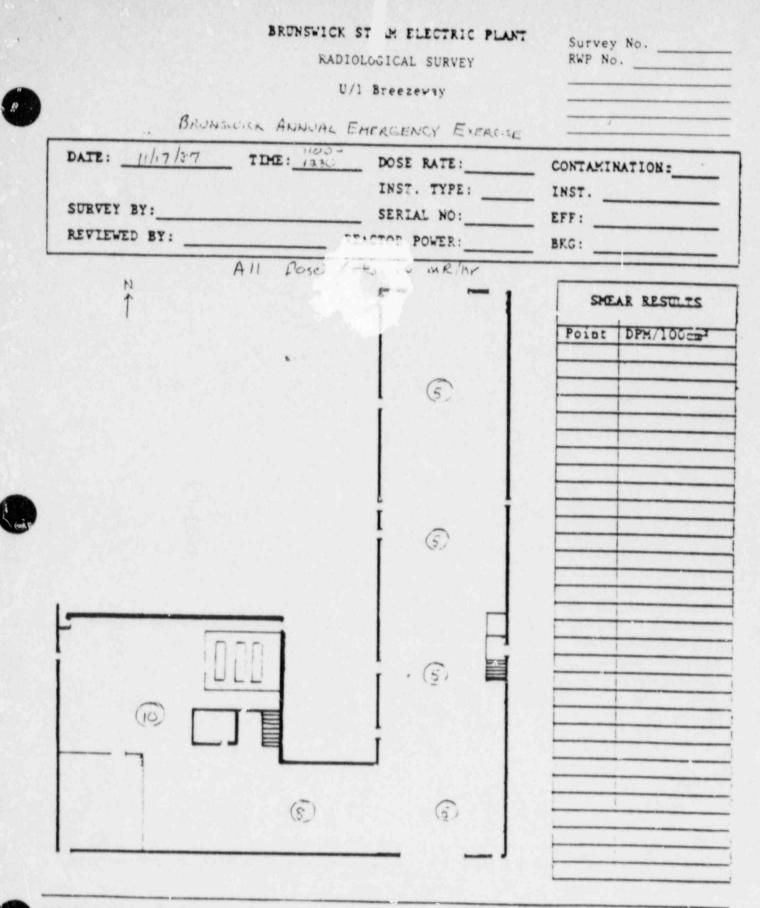
At all other times during the drill, Turbine Building dose rates will be "as read."

Any air samples taken in the Turbine Building will indicate gross activity of  $8 \times 10^{-6}$  uCi/cc.

-	Particulate MPC ratio:	0.4	(Between 1100 and
-	Iodine MPC ratio:	0.8	1230 hours)

At all other times, air sample results will be "as read."

Contamination surveys after 1100 hours will indicate 50,000 SPM/100<sup>2</sup>cm . in the Turbine Building.

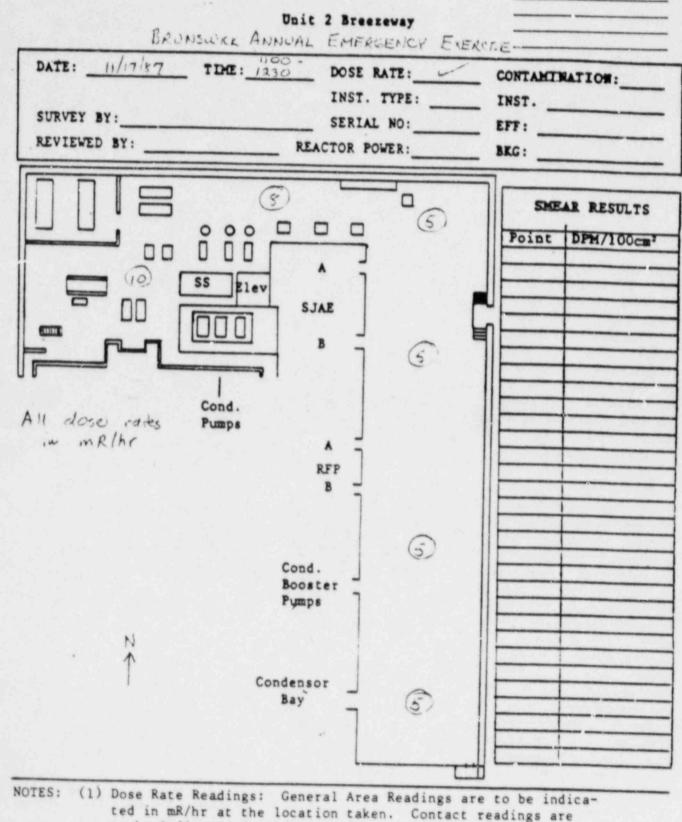


NOTES: (1) Dose Rate Readings: General Area Readings ar to be indicated in mR/hr at the location taken. Contact dings are to be indicated in mR/hr and denoted with an asterisk (\*). (2) Contamination Results: Recorded in DPM 100 cm<sup>2</sup>. Indicate and circle location.

#### BRUNSWICK STEAM ELECTRIC PLANT

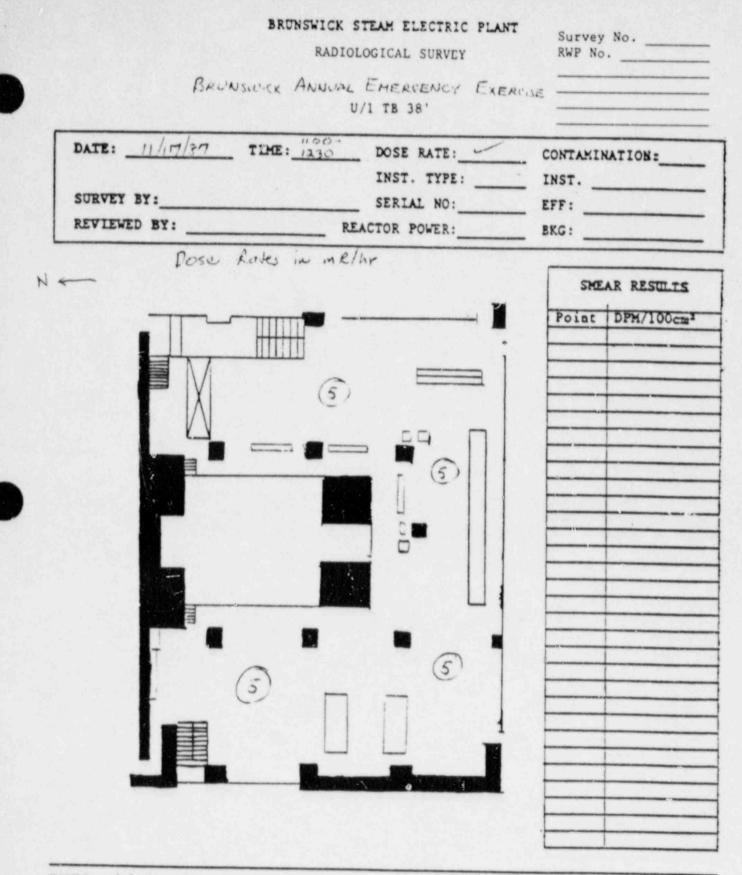
RADIOLOGICAL SURVEY

Survey No. \_\_\_\_\_ RWP. No. \_\_\_\_\_



to be indicated in mR/hr and denoted with an asterisk (\*). (2) Contamination Results: Recorded in DPM/100 cm<sup>2</sup>. Indicate

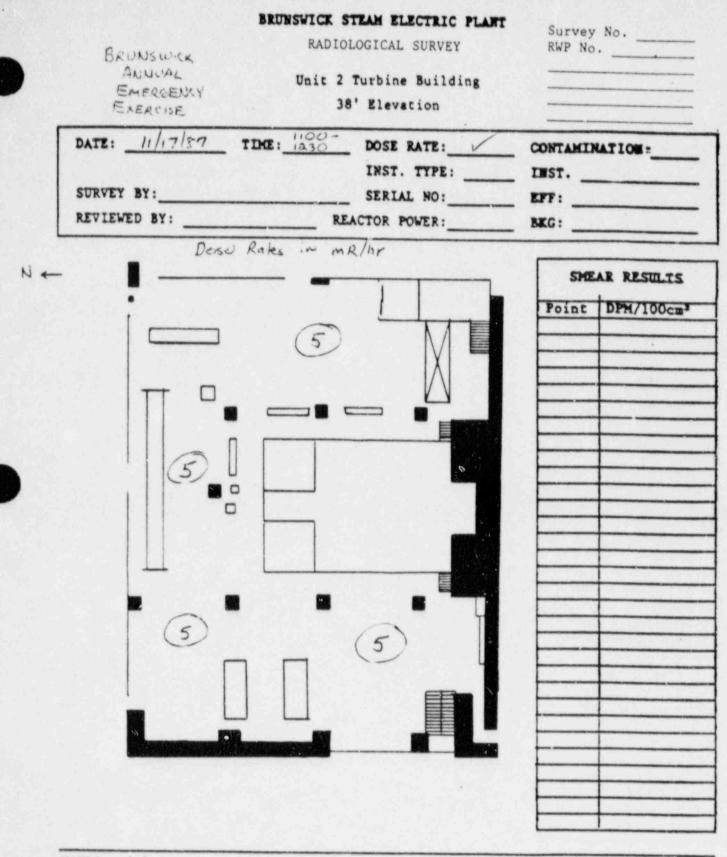
and circle location.



NOTES: (1) Dose Rate Readings: General Area Readings are to be indicated in mR/hr at the location taken. Contact readings are to be indicated in mR/hr and denoted with an asterisk (\*).

(2) Contamination Results: Recorded in DPM/100 cm<sup>2</sup>. Indicate and circle location.

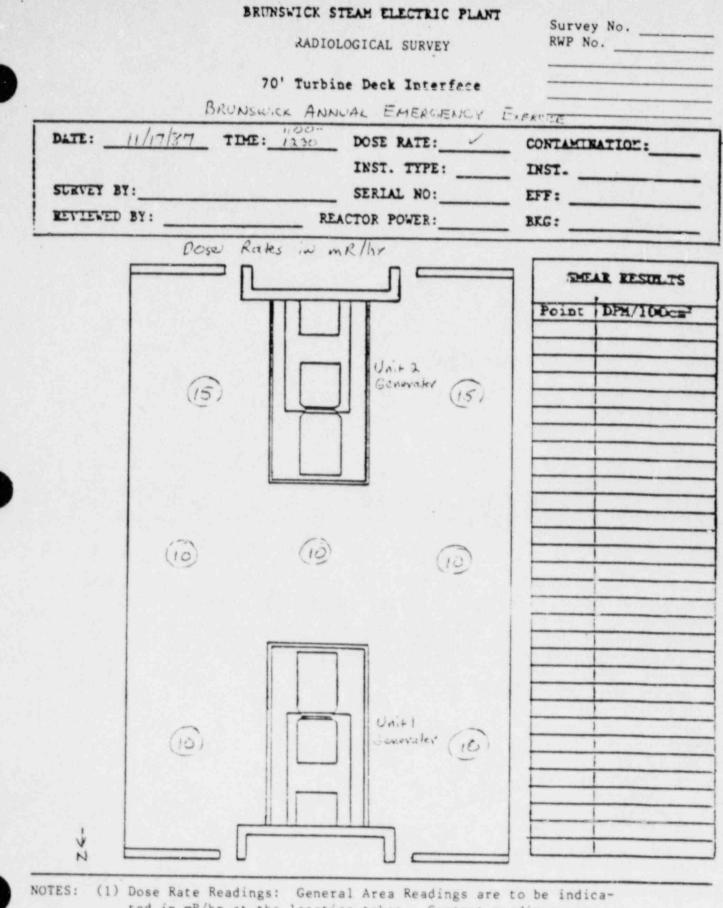
BSEP/Vol. VIII/E&RC-0100



NOTES: (1) Dose Rate Readings: General Area Readings are to be indicated in mR/hr at the location taken. Contact readings are to be indicated in mR/hr and denoted with an asterisk (\*). (2) Contamination Results: Recorded in DPM/100 cm<sup>2</sup>. Indicate

and circle location.

BSEP/Vol. VIII/E&RC-0100



ted in mR/hr at the location taken. Contact readings are to be indicated in mR/hr and denoted with an asterisk (\*). (2) Contamination Results: Recorded in DPM/100 cm<sup>2</sup>. Indicate

and circle location.

#### BRUNSWICK ANNUAL EMERGENCY EXERCISE (AREA RADIATION MONITOR READINGS)

Prior to 1300 hours, Unit 2 ARM's will read "normally" with the exception of the Turbine Building ARM's (all reading 3-5 mR/hr between 1100 and 1230 hours; otherwise normal). After 1300 hours, Unit 2 ARM readings will be as indicated on the attached sheets.

# UNIT 2 AREA RADIATION MONITOR READINGS

TIME: 1300-1500 Hours

Channel	Range (mR/hr)	Designation	Detector READING Location (Bldg.) (mR/hr)
2-1*	0.1 - 103	Radwaste Bldg. EL 3 ft. N MCC and Sump Area	Radwaste As read
2-2*	0.1 - 103	Radwaste Bldg. EL 3 ft. S MCC and Sump Area	Radwaste As read
2-3*	$0.1 - 10^3$	U-2 Cond Filter - Demin Aisle	Radwaste As read
2-4*	$0.1 - 10^3$	U-1 Cond Filter - Demin Aisle	Radwaste As read
2=5*	0.01 - 100	Radwaste Control Room	Radwaste As read
2-6*	0.01 - 100	Radwaste Sampling Station	Radwaste As read
2-7*	0.01 - 100	Radwaste Drum Capping Station	Radwaste As read
2-8*	1.0 - 104	Radwaste Drum Storage	Radwaste As read
2-9*	0.01 - 100	U-2 Turb. Hall Access Corridor	Turbine As read
2-10*	0.01 - 100	U-2 FW Heater Bay Access Corridor	Turbine As read
2-11	0.01 - 100	U-2 Turb. Bldg. Sampling Station	Turbine As read
2-12	$0.1 - 10^3$	U-2 Turb. W Moist Sep Drain Tanks	Turbine As read
2-13	0.1 - 103	U-2 Turb. E Moist Sep Drain Tanks	Turbine As read
2-14	$0.1 - 10^3$	U-2 Turb. Rotor Washdown Area	Turbine As read
2-15	0.1 - 103	2A Core Spray Pump Room ESS I	Reactor As read
2-16	0.1 - 103	2B Core Spray Pump Room ESS II	Reactor As read
2-17	0.1 - 103	2A RHR System Hx and Pump Room ESS I	Reactor > $10^3$
2-18	0.1 - 10 <sup>3</sup>	2B RHR System Hx and Pump Room ESS II	Reactor > 10 <sup>3</sup>
2-19	0.01 - 100	U-2 Rx Bldg. Airlock EL 20 ft.	Reactor , 100
2-20	0.01 - 100	U-2 Drywell Entrance	Reactor 100
2-21	1.0 - 104	U-2 TIP Room	Reactor 4s read
2-20	0.01 - 100	U-2 Drywell Entrance	Reactor 100

\* Radiation level signals supplied to common area recorders.

# UNIT 2 AREA RADIATION MONITOR READINGS

Time: 1300-1500 Hours

Channel	Range (mR/hr)	Designation	Detector READING Location (Bldg.)(mR/hr)
2-22	0.01 - 100	U-2 Decontam. Room EL 20 ft.	Reactor > 100
2-23	0.01 - 100	U-2 Equipment Entry EL 20 ft.	Reactor , 10C
2-24	0.01 - 100	U-2 Rx Bldg. Sampling Station	Reactor 7 100
2-25	0.01 - 100	U-2 Rx Bldg. Airlock EL 50 ft.	Reactor 10
2-26	0.01 - 100	U-2 Inside New Fuel Vault EL 98 ft. 8 in.	Reactor As reivel
2-27	0.01 - 100	U-2 North of Fuel Storage Pool	Reactor As read
2-28	$10^2 - 10^6$	U-2 Between Rx and Fuel Pool EL 117 ft. 4 in.	Reactor As read
2-29	0.01 - 100	U-2 Cask Wash Area Refuel Floor	Reactor As read
2-30	0.01 - 100	U-2 Spent Fuel Pool Cooling System	Reactor As read



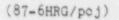
7



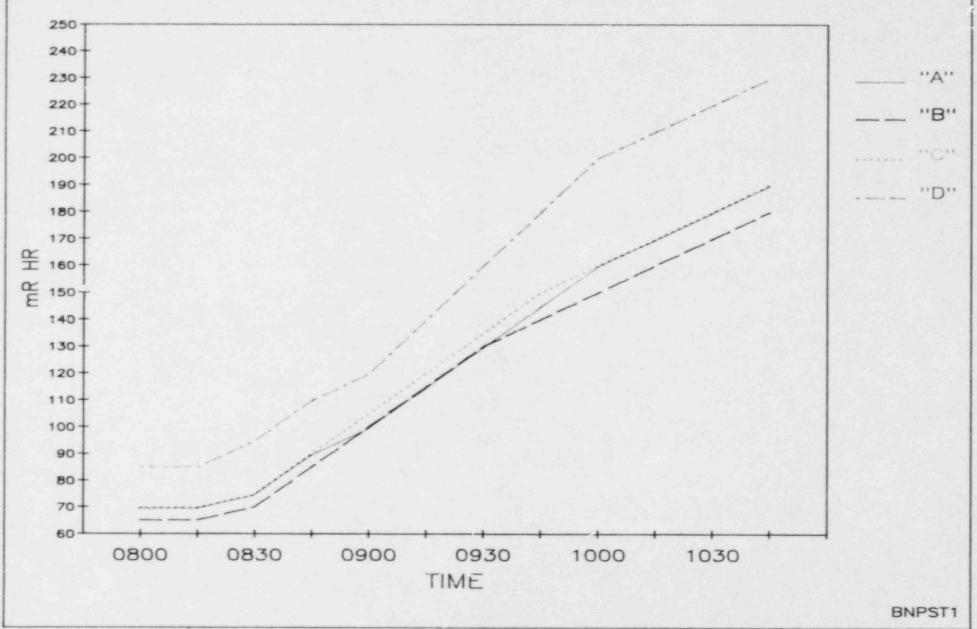
# MAIN STEAM LINE MONITOR READINGS AS ON FUNCTION OF TIME

Time	<u>"A"</u>	<u>"B"</u>	<u>"C"</u>	<u>"D"</u>
0800	70	65	70	85
0815	70	65	70	85
0830	75	70	75	95
0845	90	85	90	110
0900	100	100	105	120
0915	115	115	120	140
0930	130	130	135	160
0945	145	140	150	180
1000	160	150	160	200
1015	170	160	170	210
1030	180	170	180	220
1045	190	180	190	230
1059	200	185	200	240
1100	40	130	40	40
1115	40	140	40	50
1130	40	150	40	50
1145	35	160	35	40
1159	35	170	35	40
1200	35	40	35	40
1215	35	40	35	40
1230	35	40	35	40
1245	35	40	35	40
1259	35	40	35	40
1300	0	0	0	0
1315	0	0	0	0
1330	0	0	0	0
1345	0	0	0	0
1400	0	0	0	0
1415	0	0	0	0
1430	0	0	0	0
1445	0	0	0	0
1500	0	0	0	0

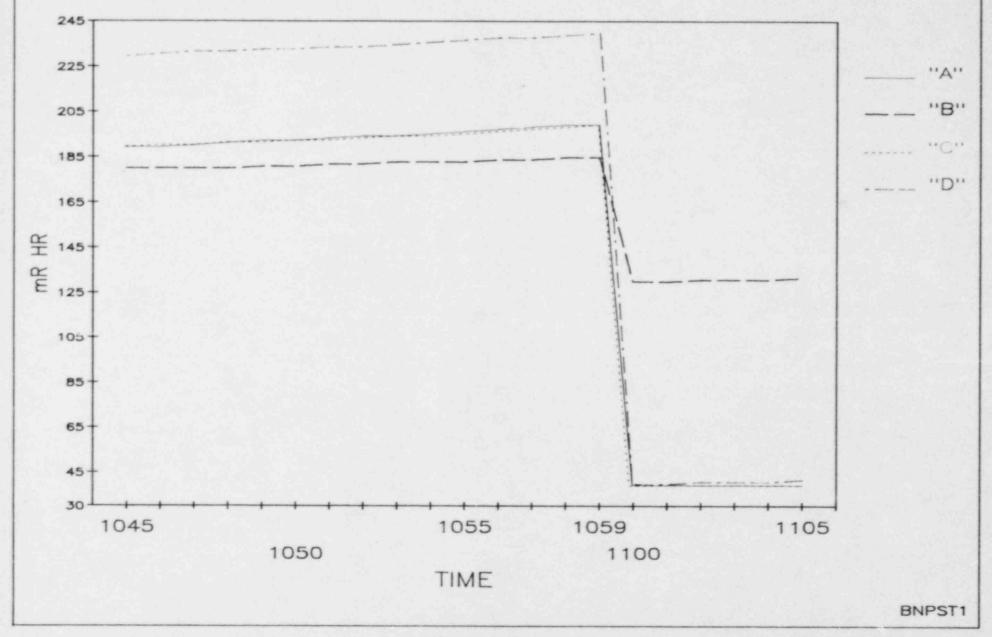




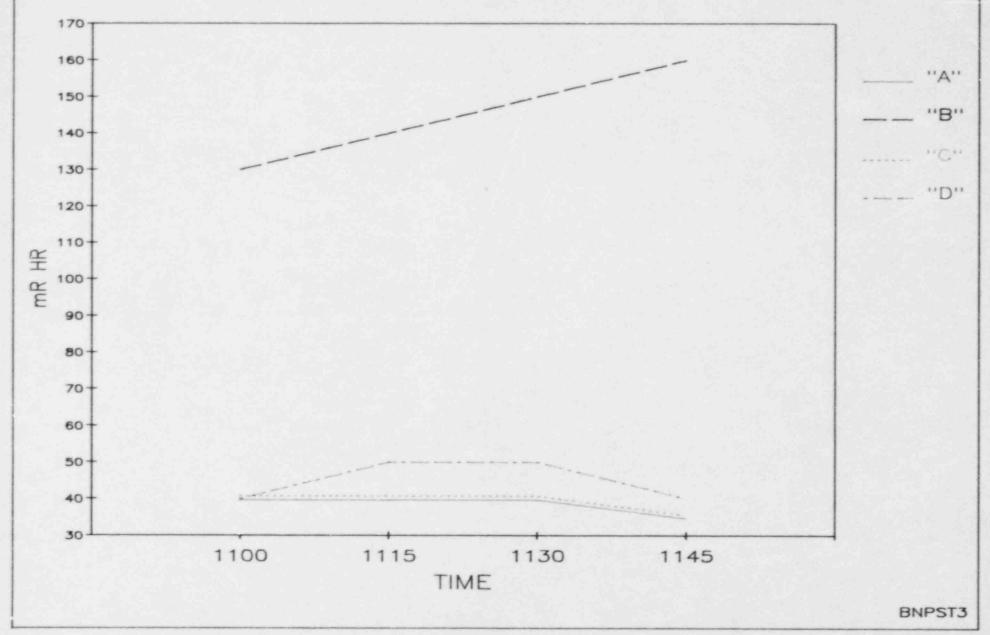
# MAIN STEAM LINE MONITOR READINGS 0800 - 1045



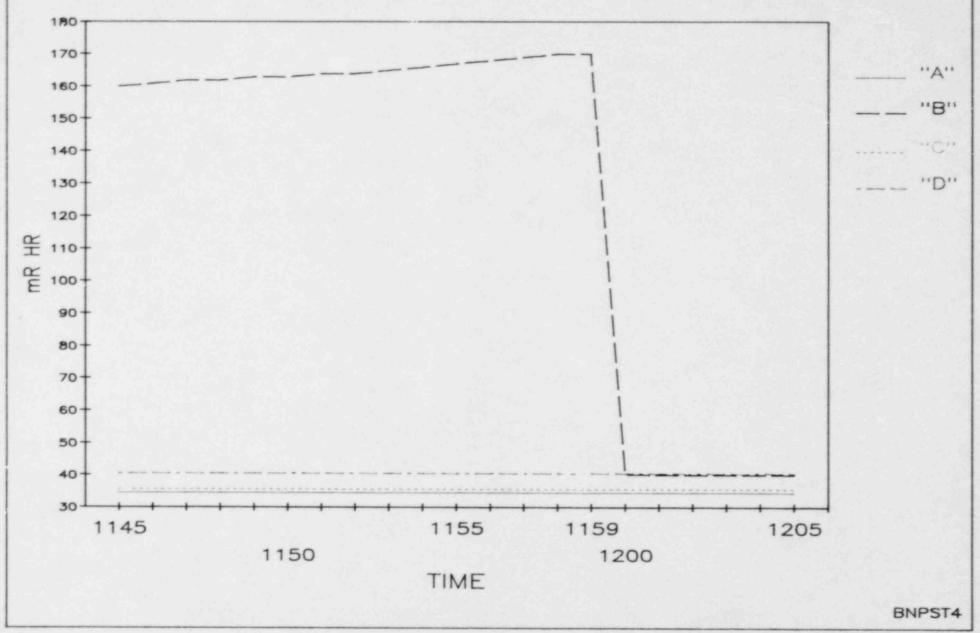
# MAIN STEAM LINE MONITOR READINGS 1045-1105

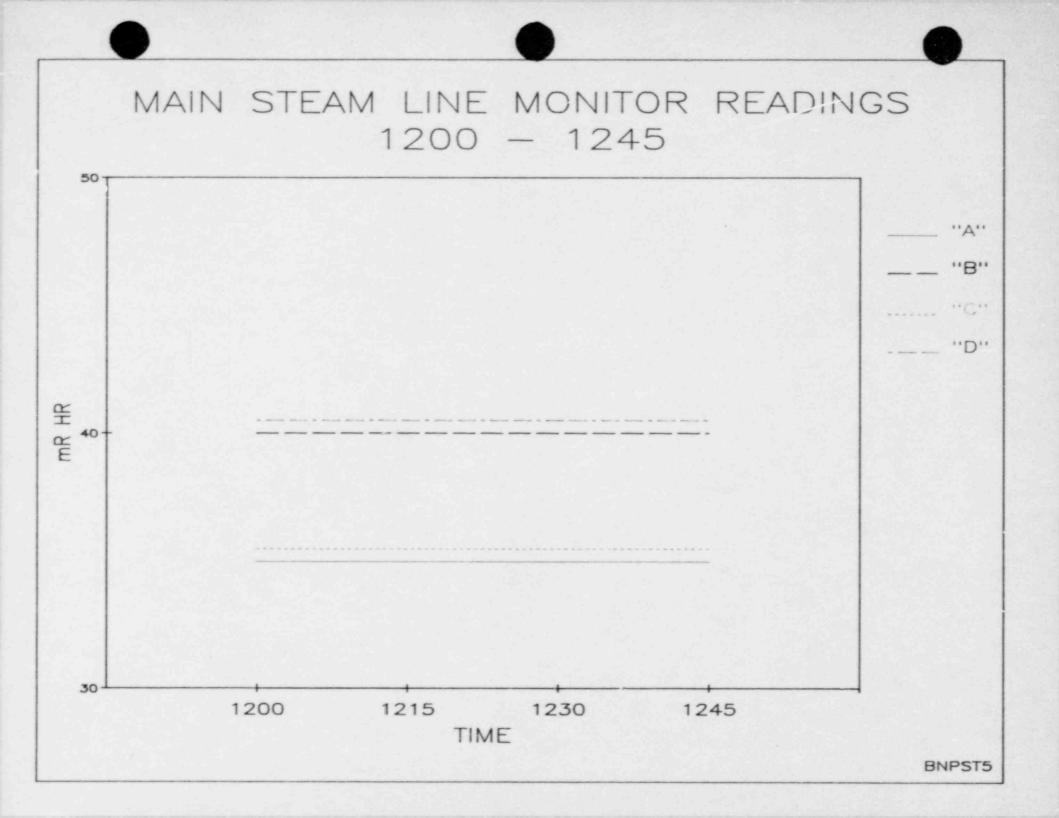


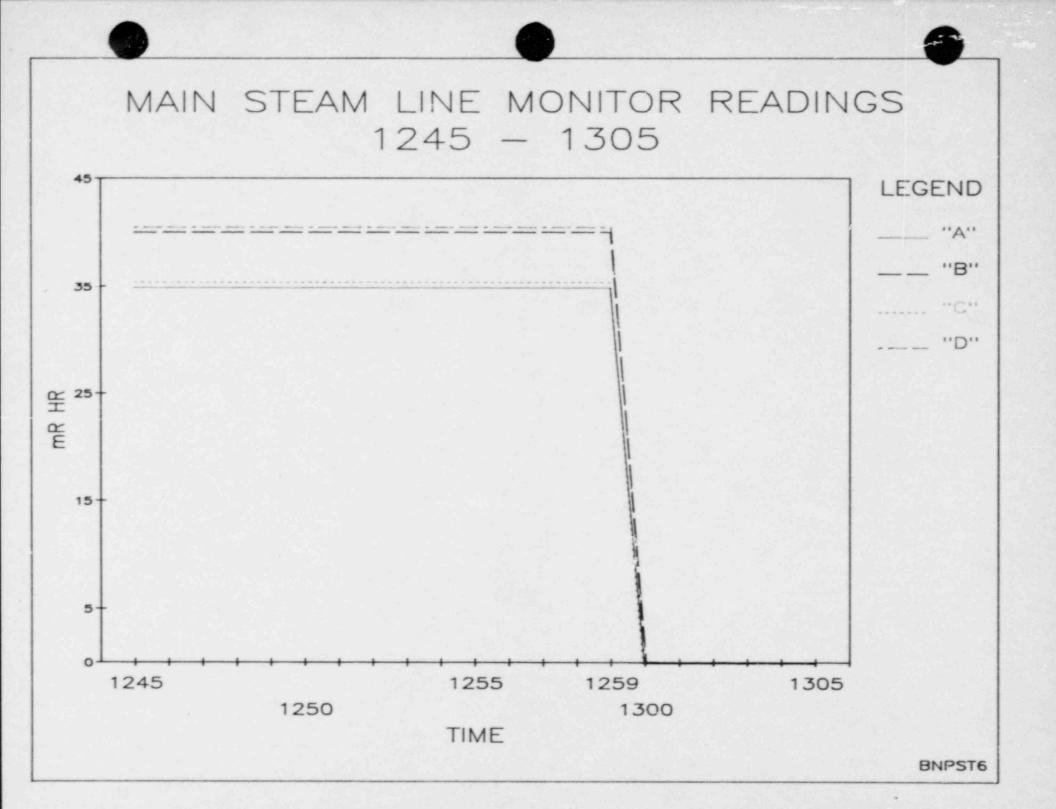
# MAIN STEAM LINE MONITOR READINGS 1100 - 1145



# MAIN STEAM LINE MONITOR READINGS 1145 - 1205







## POST ACCIDENT SAMPLING SYSTEM (PASS) RESULTS

The following information will be applicable for any PASS samples obtained after 0900.

> RADIATION READINGS FOR VARIOUS TYPES OF SAMPLES

#### Reactor Coolant Samples

Small	(diluted) vial -	unshielded:	6.0	mR/hr	contact
			0.1	mR/hr	at 1 ft
Small	(diluted) vial -	shielded:	0.1	mR/hr	contact
				read"	at 1 ft
Large	(undiluted) vial	- unshielded:	600	mR/hr	contact
			10	mR/hr	at 1 ft
Large	(undiluted) vial	~ shielded:	10	sR/hr	contact
			0.2	mR/hr	at 1 ft

Suppression Pool (RHR) Liquid Samples

Large	(undiluted)	vial	-	unshielded:	10	mR/hr	COL	nta	act	
					1	mR/hr	at	1	ft	

All other Supp. Pool (RHR) samples indicate "as read".

#### Drywell Air Samples

20 mR/hr contact 0.5 mR/hr at 1 ft

#### Torus Air Samples

10 mR/hr contact 0.2 mR/hr at 1 ft

> RADIATION MONITOR READINGS ON RMS II PASS CONTROL PANEL

These readings are applicable during sample aquisition.

Area Monitor (RI-507): "as read"

Liquid Monitor (RI-665): 0.005 R/hr (Rx coolant - small) 0.5 R/hr (Rx coolant - large) "as read" (Wetwell lig - small) 0.01 R/hr (Wetwell lig - large)

Cartridge Monitor (RI-704): 20 mR/hr (Drywell air) 10 mR/hr (Torus air)

BRUNSWICK ANNUAL EMERGENCY EXERCISE (11/17/37) PASS Sample Analysis Results

NUCLIDE	DRYWELL Air (Mai)	RENTOR COCLANT	TORUS AIR ( ACi)	TORUS WATER
I-131	4 3 E-2	6.0 E+1	6 a E-3	7 2 E - 2
I-133	65 E-2	23E+1	93E-3	1 1 E-1
I-135	55E-2	3.1 E+1	83E-3	96E-2
X2-133.4	50E-1	1.4 E-1	18 E-2	24E-3
Xe-133	6.9 E+0	4.0E+C	52E-1	6.8E-2
Xe-135m	76E-2	3 6 E-1	468-2	60E-3
Xe-135	1.2E-1	69 E-1	91E-2	12E-2
Kr- 35	3.0E-2	4 7E-2	6.1E-3	81E-4
Kr- 37	6.5E-2	2.1E-1	2.7 E-2	3.6E-3
Kr - 38	1.0 E-1	5.7E-1	73 E-2	9.6E-3
Cs-137	29E-6	1.5E+1	3.4E-6	1. GE-2





METEOROLOGICAL FORECAST INPUT DATA MESSAGES





	Date: NOVEMBER	Contraction of the second s	swick		
	Time (EST)	08:00		08:30	08:45
	Upper Speed (mph) (m/s)	7.21	7.01	7.91	8.31
	Upper Direc. (DEG)	355	_011_	005	023
	Lower Speed (mph). (m/s)	2.11	1.81	2.51	2.71
	Lower Direc. (DEG)	346	350	016	358
	AMB Temp. (°F)	_510	520	_52°	530
8	△T (°c/100m)	+2.55	+1.89	<u> +1.49</u>	+1.52
	Stability Class		F	Ē	_ <u>F</u>
	Time (EST)	09:00	09:15	<u>C9:30</u>	09:45
	Time (EST ) Upper Speed (mph) (m/s)		<u>09:15</u> 8.7 1	<u>09:30</u> 10,81	<u>09:45</u> 11.21
	Upper Speed (mph) (m/s)	9.41 018	8.7 /	10,81	11.21
	Upper Speed (mph) (m/s) Upper Direc. (DEG)	9.41 018	<u>8.7 /</u> 037	10.81 0.44	11.21
	Upper Speed (mph) (m/s) Upper Direc. (DEG) Lower Speed (mph) (m/s)	9.41 018 3.3	<u>8.7 /</u> 037 3.0	10.81 0.44 4.4	11.21 068 <u>5.8</u>
•	Upper Speed (mph) (m/s) Upper Direc. (DEG) Lower Speed (mph) (m/s) Lower Direc. (DEG)	9.41 018 3.3 004	8.7 / 037 3.0 0/6	10.81 0.44 4.4 0.5.0	11.21 068 5.8 060
•	Upper Speed (mph) (m/s) Upper Direc. (DEG) Lower Speed (mph) (m/s) Lower Direc. (DEG) AMB Temp. ( <sup>o</sup> F)	9.41 018 3.3 004 53°	8.7 1 037 3.0 016 53°	10.81 0.44 4.4 05.0 540	11.21 068 5.8 060 55°



	Date: NOVEMBER 17	7, 1987 E	Brunswick		
	Time (EST)	10:00	10:15	10:30	10:45
	Upper Speed (mph) (m/s)	12.51	12.01	14.31	15.41
	Upper Direc. (DEG)	075	087	094	090
	Lower Speed (mph). (m/s)	6.31	6.91	7.81	9.41
	Lower Direc. (DEG)	073	080	088	088
	AMB Temp. (°F)	_56°	56°	570	570
8	△ T (°c/100m)	-0.92	<u>= 0. 79</u>	-1.18	-1.26
	Stability Class			_ <u>D</u>	<u></u>
		In the second	The second s	Million and Addition of the Installing States of the Installing Course	and the second
	Time (EST)	11:00	11:15	11:30	11:45
	Time (EST) Upper Speed (mph) (m/s)	1	<u>11:15</u> 15.01	<u>30</u> 	<u>11:45</u> 14.81
		1			
	Vpper Speed (mph) (m/s)	15.7.1 100	15.01	15.91	14.81
	Vpper Speed (mph) (m/s) Vpper Direc. (DEG)	15.7.1 100	<u>15.01</u> 0.89	<u>15.91</u> 084	<u>14.81</u> 093
	Upper Speed (mph) (m/s) Upper Direc. (DEG) Low-T Speed (mph) (m/s)		15.01 089 10.5	<u>15.91</u> <u>084</u> <u>10.9</u>	<u>14.81</u> 093
	Vpper Speed (mph) (m/s) Vpper Direc. (DEG) Low-r Speed (mph) (m/s) Lower Direc. (DEG)	15.7.1 100 10.1 090	15.01 089 10.5 087	15.91 084 10.9 080	<u>14.81</u> 093 11.3 091
•	Vpper Speed (mph) (m/s) Ppper Direc. (DEG) Low-r Speed (mph) (m/s) Lower Direc. (DEG) AMB Temp. ( <sup>o</sup> F)	15.7.1 100 10.1 090 58°	15.01 0.89 10.5 0.87 58°	15.91 084 10.9 080 59°	<u>14.81</u> 093 11.3 091 59°



	Date: NOVEMBER	A Designation of the Association	swick		
	Time (EST)	12:00	12:15	12:30	12:45
	Upper Speed (mph) (m/s)	16.01	15.51	15.11	14.11
	Upper Direc. (DEG)	099	085	080	094
	Lower Speed (mph). (m/s)	11.91	12.01	10.51	10.81
	Lower Direc. (DEG)	093	082	074	0.89
	AMB Temp. ( <sup>O</sup> F)	60°	_60°	610	620
	△T (°C/100m)	-1.22	-1.29	-1.34	-1.25
	Stability Class	_ <u>D</u>	<u>D</u>		
	Time (EST)	13:00	13:15	13:30	13:45
	Upper Speed (mph) (m/s)	13.71	14.31	14.91	15.21
	Upper Speed (mph) (m/s) Upper Direc. (DEG)	<u>13.71</u> 090	<u>17.31</u> 088	14.91 092	15.21 D 89
		090			
	Upper Direc. (DEG)	090	088	092	089
	Upper Direc. (DEG) Lower Speed (mph) (m/s)	090	<u>088</u> 9.9	092	089
	Upper Direc. (DEG) Lower Speed (mph) (m/s) Lower Direc. (DEG)	090 10.2 086	088 9.9 085	092 11.3 08.7	089 12.0 088
•	Upper Direc. (DEG) Lower Speed (mph) (m/s) Lower Direc. (DEG) AMB Temp. ( <sup>O</sup> F)	090 10.2 086 162°	088 9.9 085 62°	092 11.3 08.7 63°	089 12.0 088 63°



Date: NOVEMBER		Rome V		
Time (EST)	14:00	Brunswick 14:15	14:30	14:45
Upper Speed (mph) (m/s)	15.51	16.11	14.71	14.91
Upper Direc. (DEG)	098	101	095	0.91
Lower Speed (mph). (m/s)	11.51	11.31	11.7 1	11.91
Lower Direc. (DEG)	090	095	089	089
AMB Temp. ( <sup>O</sup> F)	<u>63°</u>	640	640	640
△ T (°C/100m)	-1.45	-1.39	-1.47	-1.43
Stability Class	D	D	D	_ D
 Time (EST)	15:00	15:15	15:30	/5:45
Time (EST) Upper Speed (mph) (m/s)	1	<u>15:15</u> [6.01	<u>15:30</u> 16.31	<u>/5:45</u> <u>/6.71</u>
	1			
Upper Speed (mph) (m/s)	15.01 096	<u>16.01</u> _100	16.31	16.71
Upper Speed (mph) (m/s) Upper Direc. (DEG)	15.01 096	<u>16.01</u> _100	16.31	<u>16.71</u> <u>109</u>
Upper Speed (mph) (m/s) Upper Direc. (DEG) Lower Speed (mph) (m/s)	, 15.01 096 10.7	16.01 100 10.9	16.31 104 12.4	<u>16.71</u> <u>109</u> <u>13.0</u>
Upper Speed (mph) (m/s) Upper Direc. (DEG) Lower Speed (mph) (m/s) Lower Direc. (DEG)	, 15.01 096 10.7 088	16.01 100 10.9 096	16.31 104 12.4 099	<u>16.71</u> <u>109</u> <u>13.0</u> <u>105</u>



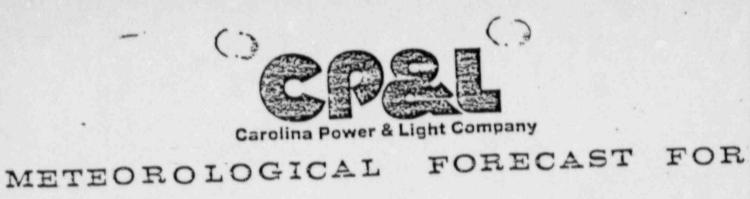
METEOROLOGICAL FORECAST FOR

Date: November 17, 1957	Time Issued: 08:00
Issued By:	Received By:
Forecast Location: Brunswick	
A) Next 1 Hour 1) Wind Direction: Sector <u>MALE</u>	Deg/5
as munde Chould Remain (Steady; \$	Shifting) Variable/
2a) Variation Should be	Deg.
3) Wind Velocity: 5 to	<u>/O</u> (MPH)
4) Stability Class <u>F-E</u>	-
5) Precipitation Activity Will Be	(Yone, Scattered, Steady)
6) Precipitation Type (Rain, Rain	showers, Thunderstorms, Ice, Snow)
7) Precipitation Intensity (Light	t, Moderate, Severe)
B) Next 3 Hours: Winds: NNE-E	5-15 mph
Stab: E-D	
No Precipitation	
C) Remarks:	



METEOROLOGICAL FORECAST FOR

	Received By:	
Issued	By:	
Forec	ast Location: Brunswick	
	이 것에 없는 그는 것 같아? 것 같아 그는 것 같아? 것 같아?	
	영영하게 이 집에서 관계에서 가격을 내려야 했다. 영화가 제공을 통했다.	
A) N	ext 1 Hour 45	
1	) Wind Direction: Sector <u>NE-ENE</u> Deg. <u>45</u>	
	Winds Should Remain (Steady; (Shifting; Variable)	
	2a) Variation Should Be _1/2 Deg.	
	3) Wind Velocity: 8 to 12 (MPH)	
	1) contribution class E-D	
	5) Precipitation Activity Will Be (None, Scattered, Steady)	
	5) Precipitation Activity will be (note) - Thunderstorms. Ice, St	now)
	6) Precipitation Type (Rain, Rainshowers, Thunderstorms, Ice, St	
	7) Precipitation Intensity (Light, Moderate, Severe)	
B)	Next 3 Hours:	
	Winds: ENE-E 12-16 mph	
	Stabi D	
	No Precipitation	
c)	Remarks:	



	Provident Pro-
Issued By:	Received By:
Forecast Location:	Brunswick
<ul><li>A) Next 1 Hour</li><li>1) Wind Direction</li></ul>	1: Sector <u>E</u> Deg. <u>090</u>
2) Winds Should B 2a) Variation	Should Be $\pm 10$ Deg.
3) Wind Velocity	: <u>12</u> to <u>16</u> (MPH)
4) Stability Cla	ss
5) Precipitation	Activity Will Be (None, Scattered, Steady)
6) Precipitation	Type (Rain, Rainshowers, Thunderstorms, Ice, Snow)
	n Intensity (Light, Moderate, Severa)
B) Nex- 3 Hours:	10 -11 male
-1 1 0	12-16mph
Stab D No Precipi	itation
C) Remarks:	

Carolina Power & Light Company
METEOROLOGICAL FORECAST FOR
Date: November 17, 1987 Time Issued: 11:00
Issued By: Received By:
Forecast Location: Brudswick A) Next 1 Hour 1) Wind Direction: Sector E Deg. 90
2) Winds Should Remain (Steady, Shifting; Variable) 2a) Variation Should Be <u>I(O</u> Deg.
<ul> <li>3) Wind Velocity: <u>12</u> (MPH)</li> <li>4) Stability Class <u>D</u></li> <li>5) Precipitation Activity Will Be (None, Scattered, Steady)</li> <li>6) Precipitation Type (Rain, Reinshovers, Thunderstorms, Ice, Snow)</li> <li>7) Precipitation Intensity (Light, Moderate, Severe)</li> </ul>
B) Next 3 Hours: Winds: E 12-16mph Stab: D No Provisitation

C) Remarks:

- CORRE	
Carolina Power & Light Company METEOROLOGICAL FORECAST FOR	
Date: November 17, 1987 Time Issued: 12:00	
Issued By: Received By:	
Forecast Location: Brunswick	
A) Next 1 Hour 1) Wind Direction: Sector <u>E</u> Deg. <u>90</u>	
<ol> <li>Wind Direction: Sector</li> <li>Winds Should Remain (Steady; Shifting; Variable)</li> </ol>	
2) Winds Should Remain (Stead) Deg. 2a) Variation Should Be <u><u>T</u>10</u> . Deg.	
3) Wind Velocity: 12 to 16 (MPH)	
4) Stability Class	
<ul> <li>5) Precipitation Activity Will Be (None, Scattered, Steady)</li> </ul>	
<ul><li>6) Precipitation Type (Rain, Rainshowers, Thunderstorms, Ice, Snow)</li></ul>	
<ul><li>7) Precipitation Intensity (Light, Moderate, Severe)</li></ul>	
7) Precipitation inclusity (magnet)	
B) Next 3 Hours:	
Winds: E 12-16 mph	
Stah: D	
No Precipitation	
C) Remarks:	

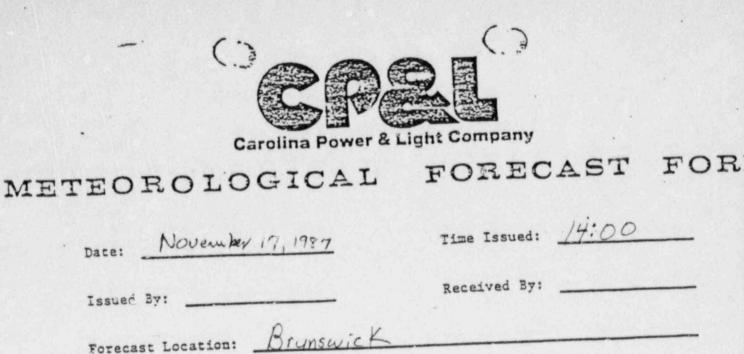


# METEOROLOGICAL FORECAST FOR

Date: November 17, 1987	Time Issued: _/3:00
Issued By:	Received By:
Forecast Location: Brunswick	
A) Next 1 Hour	F Deg. 90
<ol> <li>Wind Direction: Sector</li> <li>Winds Should Remain (Steady 23) Variation Should Be</li> </ol>	Shiftirg; Variable)
<ul> <li>23) Variation Should be</li> <li>3) Wind Velocity:t</li> </ul>	- 16 (MPH)
<ul> <li>4) Stability Class</li> <li>5) Precipitation Activity Will</li> </ul>	34 (None, Scattered, Steady)
6) Precipitation Type (Rain, Ra	ainshowers, Thunderstorms, Ice Snow)
7) Precipitation Intensity (Li	ght, Moderste, Severe)
B) Next 3 Hours: Winds: E-ESE 1	4-18mph
STAB: D-C No Precipitation	
the stand	

(\*\*\*\*

C) Remarks



Forecast	Location
----------	----------

A)	Next 1 Hour E 95
	1) Wind Direction: Sector <u>E</u> Deg. <u>70</u>
	2) Winds Should Remain (Steady; Shifting; Variable)
	2a) Variation Should Be Deg.
	3) Wind Velocito: 14 to 18 (MPH)
	4) Stability Class
	5) Precipitation Activity Will Be (None, Scattered, Steady)
	6) Precipitation Type (Rain, Rainshowers, Thunderstorms, Ice, Snow)

7) Precipitation Intensity (Light, Moderate, Severe)

B) Next 3 Hours: Winds: E-ESE 12-18mph STAB: D-C No Precipitation

C) Remarks:



METEOROLOGICAL	FORECAST	FOR
METEOROLOGICEE		

Date: November 17, 1987	Time Issued: 15:00
Issued By:	Received By:
Forecast Location: Brunswick	
<ul> <li>A) Next 1 Hour</li> <li>1) Wind Direction: Sector <u>E</u>-</li> </ul>	-ESE Deg. 100
2) Winds Should Remain (Steady; 2a) Variation Should Be	Shifting; Variable)
3) Wind Velocity: 14 to	/ <u>8</u> (MPH)
4) Stability Class <u>D-C</u>	
5) Precipitation Activity Will	Be (None, Scattered, Steady)
6) Precipitation Type (Rain, Ra	inshowers, Thunderstorms, Ice, Snow)
7) Precipitation Intensity (Lig	ht, Moderate, Severe)
B) Next 3 Hours: Winds: ESE-SE	
(m) 0 /	
STAB: D-C	
No Precipitation	

C) Remarks:



#### BSEP ANNUAL EMERGENCY EXERCISE (RADIOLOGICAL ENVIRONMENTAL MONITORING)

Based on a failure of the Scram Discharge Volume in the Unit 2 Reactor Building at approximately 1300 hours, an elevated (stack) release of radioactive material to the environment will commence. Following commencement of the release, environmental dose rates and air sample results will be as described in the attached sheets.

Whole body and thyroid dose projection isopleths are attached. Projections for known and unknown radionuclide mixes are included since dose projections may be performed prior to the availability of isotopic information. Environmental measurements will most closely reflect the known isotope mix.







#### ENVIRONMENTAL AIR SAMPLE RESULTS

Though a small release of radioactive material from the Turbine Building will occur between 1100-1230 hours, there will be no measurable environmental effects. Following the commencement of the plant release at 1300 hours, air sample radiation levels and analysis results will be as follows:

Survey Location Hwy 87 near B&I Grocery Store	<u>Time</u> 1305- 1500	Contact Dose Rate Just After Sampling For Particulate Sample 0.4 mR/hr or 1000 cpm	Contact Dose Rate Just After Sampling For Silver Zeolite Cartridge 4 mR/hr or 8000 cpm	Contact Dose Rate Before Lab Analysis For Either Cartridge 0.8 mR/hr or 2000 cpm	Lab Analysis Results (uCi/ce) I-131:6.37E-8 I-133:9.68E-8
					I-135:8/14E-8 Cs-137:1.18E-9
Hwy 211 Near Ent- rance to Dutchman Acres	1310- 1500	0.4 mR/hr or 1000 cpm	4 mR/hr or 8000 cpm	0.8 mR/hr 2000 cpm	I-131:5.65E-8 I-133:8.90E-8 I-135:7.60E-8 Cs-137:1.02E-9
Hwy 211 at Beaverdam Creek	1315- 1500	0.3 mR/hr or 750 cpm	3 mR/hr or 6000 cpm	0.6 mR/hr or 1500 cpm	I-131:4.64E-8 I-133:8.90E-8 I-135:5.93E-8 Cs-137:8.60E-10
Intersection Hwy 133 and 87 near Plant Entrance	1305 <b>-</b> 1500	0.1mR/hr or 250 cpm	1 mR/hr or 2000 cpm	0.2 mR/hr or 500 cpm	I-131:1.86E-8 I-133:2.65E-8 I-135:1.98E-8 Cs-137:3.44E-10

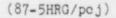
(87-5HRG/pcj)

#### ENVIRONMENTAL RADIATION LEVEL READINGS

Though a small release of radioactive material from the Turbine Building will occur between 1100-1230 hours, there will be no measurable environmental effects. Following the commencement of the plant release at 1300 hrs., radiation readings at the following representative downwind locations will be as follows:

Survey Location	Time	Radiation Reading
Hwy 87 near B&I Grocery Store	1305-1500	0.3 mR/hr
Hwy 211 near entrance to Dutchman Acres	1310-1500	0.3 mR/hr
Hwy 211 at Beaverdam Creek	1315-1500	0.2 mR/hr
Intersection Hwy 133 and 211	1310-1500	0.1 mR/hr
Intersection Hwy 133 and 87 near Plant Entrance	1305-1500	0.1 mR/hr





THYROID DOSE PROJECTION STABILITY CLASS : D VINC VELOCITY : 15 (MPH) BLOWING FROM 90 (DEGREES) BE TERM : 738 (CURIES) EXATED DURATION OF RELEASE : 1 (HOURS) RELEASE HEIGHT : 100 (METERS) FIME FROM SAMPLE TO RELEASE : 0 (HOURS) >CF : 1284438 (REM/HR)/(CURIE/M^3)

DISTANCE	DOSE	×/Q
(METERS/MILES)	(REMS)	(SEC/METERS^3)
804 / 0.50	7.16E-03	2.72E-08
1608 / 1.00	1.97E-01	7.47E-07
2412 / 1.50	3.04E-01	1.15E-06
3216 / 2.00	3.11E-01	1.18E-06
4020 / 2.50	2.86E-01	1.09E-06
4824 / 3.00	2.56E-01	9.71E-07
5628 / 3.50	2.27E-01	8.60E-07
6432 / 4.00	2.01E-01	7.64E-07
7236 / 4.50	1.79E-01	6.81E-07
8040 / 5.00	1.61E-01	6.10E-07
8844 / 5.50	1.45E-01	5.51E-07
9648 / 6.00	1.32E-01	4.99E-07
10452 / 6.50	1.20E-01	4.56E-07
11256 / 7.00	1.10E-01	4.18E-07



Thyroid-Known Mix



10:02:00 09-14-1987

vHoLE BODY DOSE PROJECTION 10:28:42 09-14-1987 stability class : D vind velocity : 15 (MPH) Blowing FRom 90 (Degrees) e term : 35269.2 (CURIES) stated duration of release : 1 (Hours) release Height : 100 (Meters) (IME FROM SAMPLE TO RELEASE : 0 (Hours) )CF : 40.73542 (REM/HR)/(CURIE/M^3)

DISTANCE (METERS/MILES) 402 / 0.25 804 / 0.50	DOSE (REMS) 3.24E-11 1.09E-05	X/Q (SEC/METERS^3) 8.11E-14 2.72E-08
1206 / 0.75	1.34E-04	3.36E-07
1608 / 1.00	2.98E-04	7.47E-07
2010 / 1.25	4.08E-04	1.026-06
2412 / 1.50	4.61E-04	1.15E-06
2814 / 1.75	4.77E-04	1.19E-06
3216 / 2.00	4.72E-04	1.18E-06
3618 / 2.25	4.55E-04	1.14E-06
4020 / 2.50	4.34E-04	1.09E-06
4422 / 2.75	4.11E-04	1.03E-06
4824 / 3.00	3.88E-04	9.71E-07
5226 / 3.25	3.65E-04	9.14E-07
5628 / 3.50	3.43E-04	8.60E-07
6030 / 3.75	3.23E-04	8.10E-07
6432 / 4.00	3.05E-04	7.64E-07
/ 4.25	2.88E-04	7.20E-07
4.50	2.72E-04	6.81E-07
7638 / 4.75	2.57E-04	6.44E-07
8040 / 5.00	2.44E-04	6.10E-07
8442 / 5.25	2.31E-04	5.79E-07
8844 / 5.50	2.20E-04	5.51E-07
9246 / 5.75	2.09E-04	5.24E-07
9648 / 6.00	1.99E-04	4.99E-07
10050 / 6.25	1.90E-04	4.77E-07
10452 / 6.50	1.82E-04	4.56E-07
10854 / 6.75	1.74E-04	4.36E-07
11256 / 7.00	1.67E-04	4.18E-07



Whole Body-Known Mix

## WHOLE BODY DOSE PROJECTION 14:10:01 09-11-1987

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STABILITY CLASS : D VELOCITY : 15 (MPH) BLOWING FROM 90 (DEGREES) SET TERM : 36000 (CURIES) STIMATED DURATION OF RELEASE : 1 (HOURS) RELEASE HEIGHT : 100 (METERS) FIME SINCE REACTOR SHUTDOWN : 0 (HOURS) OCF : 379 (REM/HR)/(CURIE/M^3)

DISTANCE	DOSE	X/Q
(METERS/MILES)	(REMS)	(SEC/METERS^3)
804 / 0.50	1.03E-04	2.72E-08
1608 / 1.00	2.83E-03	7.47E-07
2412 / 1.50	4.38E-03	1.15E-06
3216 / 2.00	4.48E-03	1.18E-06
4020 / 2.50	4.12E-03	1.09E-06
4824 / 3.00	3.68E-03	9.71E-07
5628 / 3.50	3.26E-03	8.60E-07
6432 / 4.00	2.89E-03	7.64E-07
7236 / 4.50	2.58E-03	6.81E-07
8040 / 5.00	2.31E-03	6.10E-07
8844 / 5.50	2.09E-03	5.51E-07
9648 / 6.00	1.89E-03	4.99E-07
10452 / 6.50	1.73E-03	4.56E-07
11256 / 7.00	1.58E-03	4.18E+07



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Whole Body-Unknown Mix

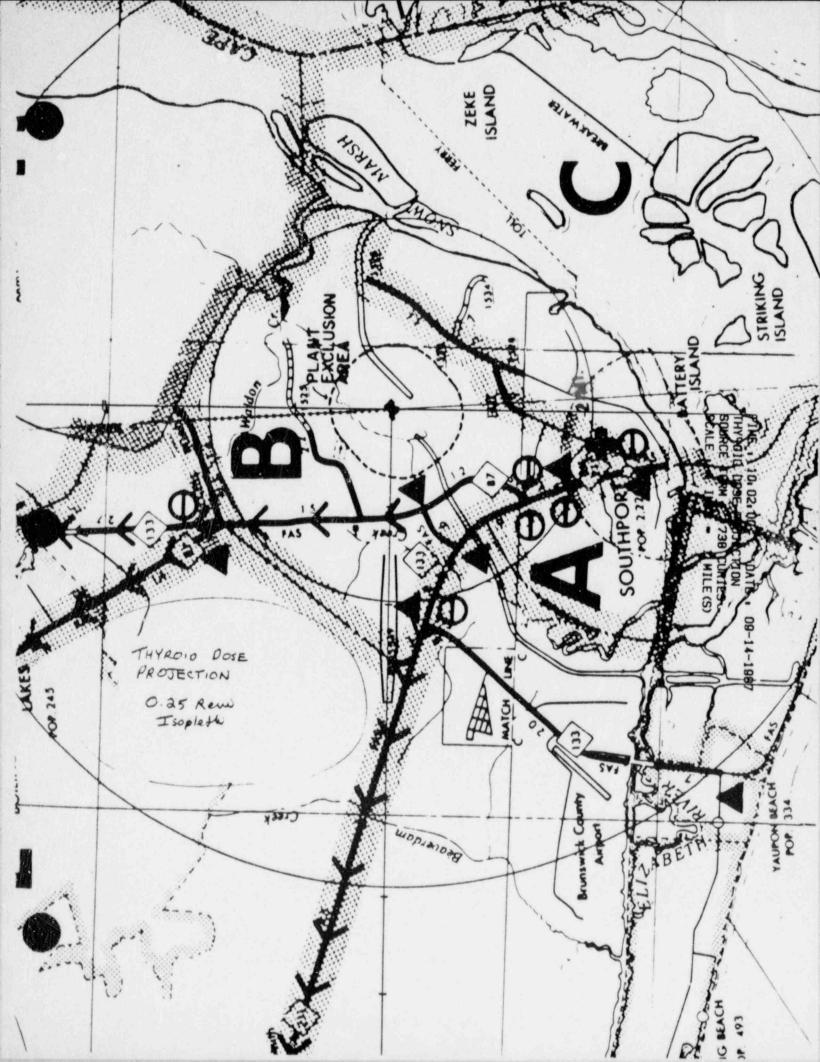
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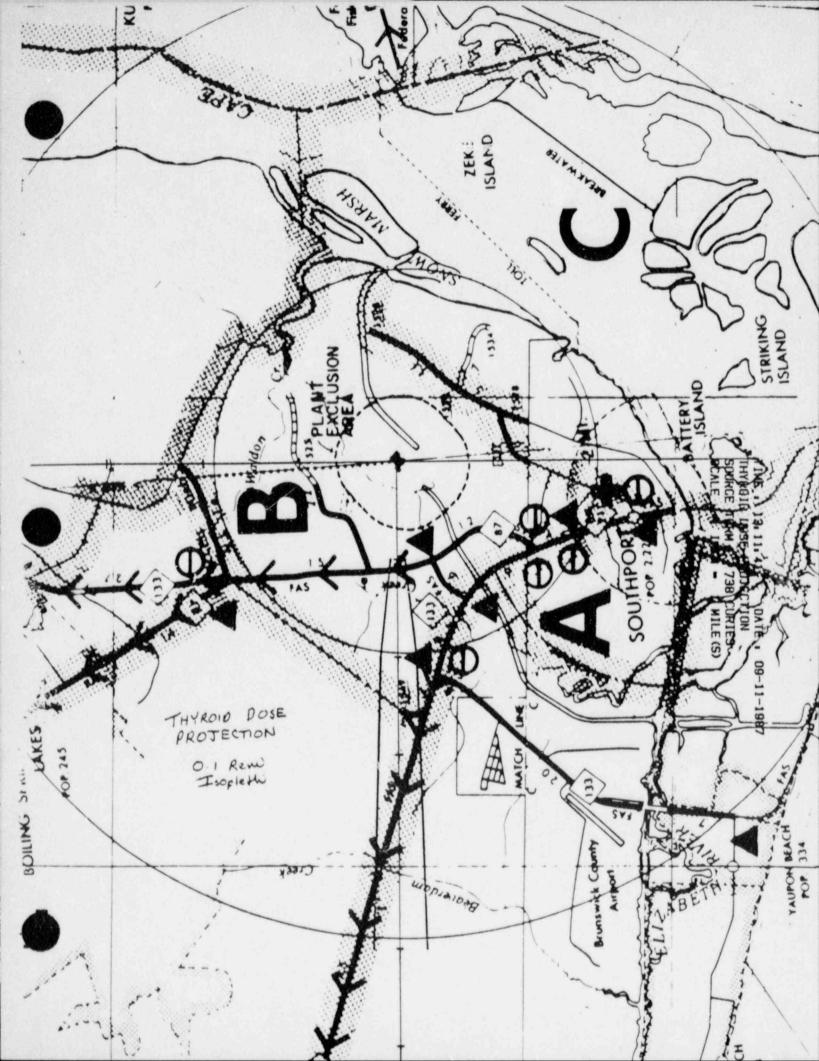
THYROID DOSE PROJECTION 14:32:24 09-11-1987 BILITY CLASS : D D VELOCITY : 15 (MPH) BLOWING FROM 90 (DEGREES) SOURCE TERM : 5400 (CURIES) ESTIMATED DURATION OF RELEASE : 1 (HOURS) RELEASE HEIGHT : 100 (METERS) TIME SINCE REACTOR SHUTDOWN : 0 (HOURS) DCF : 661700 (REM/HR)/(CURIE/M\*3)

PASTERSFMILES)	(REAS)	(SEC/METERS^3)
402 / 0.25	8.05E-08	8.11E-14
804 / 0.50	2.70E-02	2.72E-08
1206 / 0.75	3.34E-01	3.36E-07
1608 / 1.00	7.41E-01	7.47E-07
2010 / 1.25	1.01E+00	1.02E-06
2412 / 1.50	1.15E+00	1.15E-06
2814 / 1.75	1.19E+00	1.19E-06
3216 / 2.00	1.17E+00	1.18E-06
3618 / 2.25	1.13E+00	1.14E-06
4020 / 2.50	1.08E+00	1.09E-06
4422 / 2.75	1.02E+00	1.03E-06
4824 / 3.00	9.64E-01	9.71E-07
5226 / 3.25	9.07E-01	9.14E-07
5628 / 3.50	8.54E-01	8.60E-07
6030 / 3.75	8.04E-01	8.10E-07
32 / 4.00	7.58E-01	7.64E-07
34 / 4.25	7.15E-01	7.20E-07
7236 / 4.50	6.76E-01	6.81E-07
7638 / 4.75	6.39E-01	6.44E-07
8040 / 5.00	6.06E-01	6.10E-07
8442 / 5.25	5.75E-01	5.79E-07
8844 / 5.50	5.47E-01	5.51E-07
9246 / 5.75	5.20E-01	5.24E-07
9648 / 6.00	4.96E-01	4.99E-07
10050 / 6.25	4.73E-01	4.77E-07
10452 / 6.50	4.52E-01	4.56E-07
10854 / 6.75	4.33E-01	4.36E-07
11256 / 7.00	4.14E-01	4.18E-07

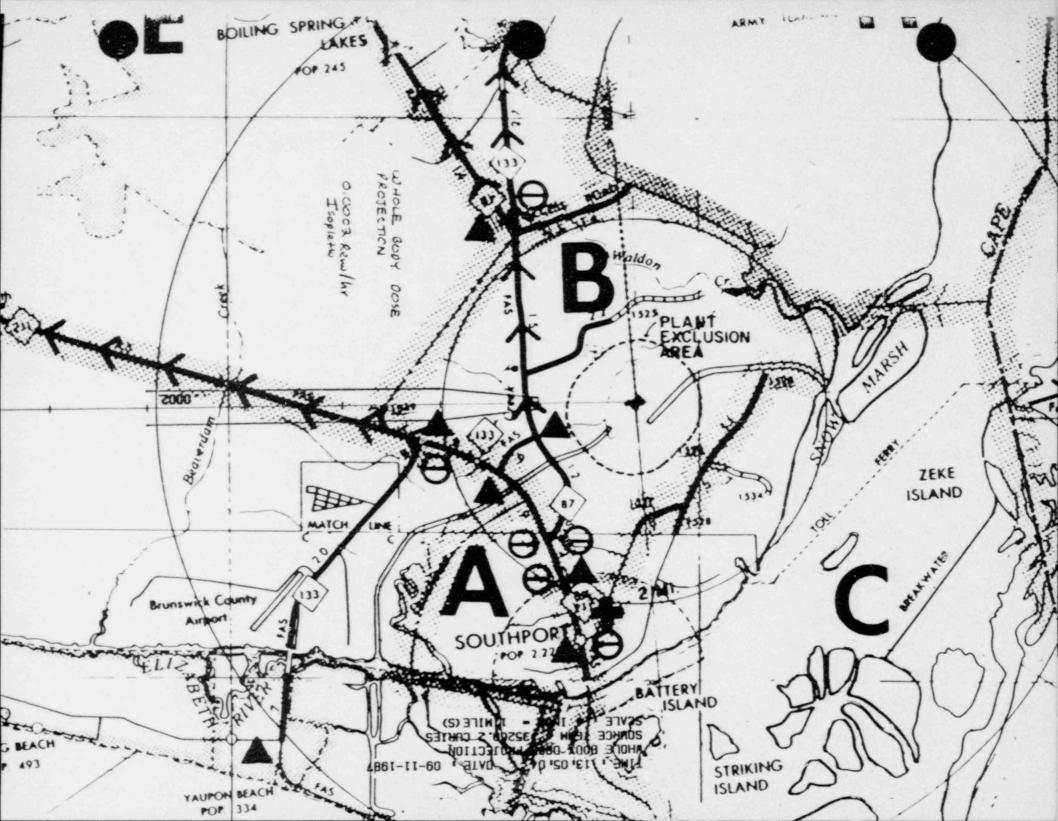
Thyroid-Unknown Mix







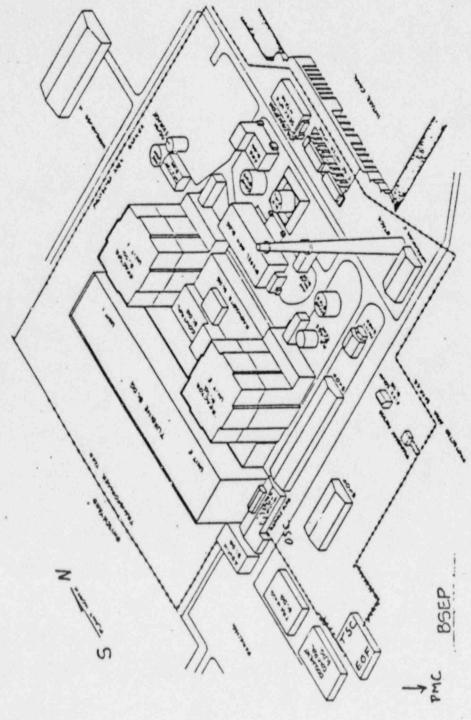














EVALUATION CHECKLISTS



SCN: 87-3717

### -Control Room Controller-

		Yes	No	Not Observed
1.	Did the operators respond quickly to the initiating events and properly assess the situation			
2.	Did the Control Room personnel take appropriate actions to mitigate the emergency condition in an expeditious manner?			
3.	Were appropriate abnormal conditions and emergency operations procedures used and periodically reviewed during the emergency situation?			
4.	Did the Shift Supervisor receive immediate notification of the emergency condition?		_	
5.	Were there sufficient measurable/observable indica- tions to recognize the Emergency Action Levels?	<u></u>		1
6.	Were classifications of the emergency conditions timely and accurate?			
7.	Did Control Room personnel know when to refer to the emergency plan implementing procedures and which procedures to use?			
8.	Was the emergency classification upgraded or down- graded when appropriate?			
9.	Did the Shift Foreman promptly assume control and authority?			
10.	Did the Shift Foreman initiate the correct response actions to implement onsite and offsite assessment and protective response measures?			
11.	Were such measures implemented in a prompt and well throughout manner?			
12.	If an emergency condition required corrective action in-plant, was a team assembled and briefed in a timely manner?			
13.	Did the Shift Foreman practice efficient use of available personnel?			
14.	Was assistance requested from the appropriate emergency response organizations?			



SCN:87-3717 NPD-37-05-80

## -Control Room Controller-

		Yes	No	Observed
15.	Were personnel aware of their emergency response roles and functions?			
16.	Did the Shift Foreman review the declared emergency classification(s) with the Site Emergency Coordinator upon his arrival at the TSC?			
17.	Were appropriate decision-making responsibilities transferred to the TSC upon its activation?			
18.	Were manpower and staffing requirements for protracted operations assessed?			
19.	Were notification procedures available and used for mobilizing onsite emergency response personnel and augmenting the emergency response staff?			
20.	Were emergency response phone listings available, complete, and up-to-date?			
21.	Were initial and follow-up notification forms readily available and properly completed?			
22.	Did the Control Room communicators appear to understand and use the communications equipment and systems effectively?			
23.	Did Control Room personnel transmit data in a timely and knowledgeable manner?			
24.	Did the Control Room communicators use the statement, "this is a drill," or a similar statement?			
25.	Were communications links checked?			1.11
26.	Were all communication networks operational?			
27.	Were commutations adequate to ensure that the flow of information was timely, effective, and efficient?			
28.	Were dedicated communication links with the TSC, EOF. and OSC available and used?			



SCN: 37-3717 NPD-52-35-R0

#### -Control Room Controller-

			Yes	No	Not Observed
	29.	Were general status announcements or periodic updates provided to Control Room personnel throughout the emergency?			
	30.	Was the plant page-party system used to apprise emergency workers of changes in the status of the emergency situation?			
	31.	Was there a proper flow of data between the TSC and the Control Room?			
	32.	Were Control Room logs maintained?			
	33.	Did operators obtain the appropriate information necessary to Support dose projection calculations?			
	34.	Did operators obtain release rate and offsite dose assessment information from the appropriate radiological monitoring systems when required?			
	35.	Was a calculator or computer immediately available for performing dose projection calculations?			
1	36.	Were dose projection calculations performed efficiently and accurately?			
	37.	Were emergency supplies and equipment, such as respirators and protective clothing available to Control Room personnel?			
	38.	Was the ambient noise level in the Control Room acceptable?			
	39.	Was access to the Control Room restricted to specific individuals?			
	40.	Was a post-drill/exercise critique held to evaluate Control Room performance?			



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## -Technical Support Center (TSC) Controller-

		Yes	No	Not Observed
1.	Was the TSC activated automatically upon the declaration of an Alert?			
2.	Did emergency response personnel assigned to the TSC report in a timely manner?			
3.	Were TSC personnel aware of their assigned work areas?			
4.	Were TSC personnel familiar with their assigned duties and responsibilities?			
5.	Did applicable personnel in the TSC refer to and utilize their checklists?			
6.	Did TSC personnel have up-to-date phone listings for onsite and offsite contacts?			
7.	Was command control authority transferred from the Control Room to the TSC according to procedures?			
8.	Did communications contain the statement "this is a drill," or a similar statement?			
9.	Did the Site Emergency Coordinator formally accept the transfer of responsibilities from the Control Room?			
10.	Was the TSC formally declared operational by the Site Emergency Coordinator?			
11.	Were TSC personnel informed of the change of command?			
12.	Did the Site Emergency Coordinator demonstrate the ability to maintain command control over all emergency response activities conducted from the TSC?			
13.	Were plant status briefings periodically conducted by the Site Emergency Coordinator?			
14.	If necessary, did the Site Emergency Coordinator make offsite protective action recommendations in a proper and timely manner?			



SCN: 37-3717

#### -Technical Support Center (TSC) Controller-

	Yes	No	Not Observed
Were manpower and staffing requirements for protracted operations assessed?			
Did TSC personnel demonstrate, if necessary, the ability to identify the need for outside assistance when station capabilities were exceeded?			
Did TSC personnel demonstrate the ability to classify the emergency condition in a timely manner?			
Did technical personnel demonstrate their ability to react to escalating emergency classification?			
Did the TSC Accident Assessment Team demonstrate the ability to gather, assess, and disseminate information to help mitigate the emergency conditions?			
Did the TSC staff adequately Support the Control Room staff's efforts to identify the cause of an incident, mitigate the consequences of that incident, and place the unit in a safe and stable conditions?			
Did TSC personnel demonstrate the ability to respond to mitigating circumstances and properly de-escalate the emergency situation?			
Were the notification procedures available and used for mobilizing onsite emergency response personnel and augmenting the emergency response staff?			
Were communication links established with other emergence response facilities in a timely manner?			
Did TSC personnel properly communicate with: a. Control Room? b. OSC? c. EOF?	=		
	<ul> <li>protracted operations assessed?</li> <li>Did TSC personnel demonstrate, if necessary, the ability to identify the need for outside assistance when station capabilities were exceeded?</li> <li>Did TSC personnel demonstrate the ability to classify the emergency condition in a timely manner?</li> <li>Did technical personnel demonstrate their ability to react to escalating emergency classification?</li> <li>Did the TSC Accident Assessment Team demonstrate the ability to gather, assess, and disseminate information to help mitigate the emergency conditions?</li> <li>Did the TSC staff adequately Support the Control Room staff's efforts to identify the cause of an incident, mitigate the unit in a safe and stable conditions?</li> <li>Did TSC personnel demonstrate the ability to respond to mitigating circumstances and properly de-escalate the emergency situation?</li> <li>Were the notification procedures available and used for mobilizing onsite emergency response staff?</li> <li>Were communication links established with other emergence response facilities in a timely manner?</li> <li>Did TSC personnel properly communicate with: a. Control Room?</li> </ul>	<pre>Were manpower and staffing requirements for protracted operations assessed?</pre>	Were manpower and staffing requirements for protracted operations assessed?

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## -Technical Support Center (TSC) Controller-

		Yes	No	Not Observed
25.	Did the Logistic Support Director notify the Emergency Security Team Leader of anticipated emergency vehicle access to the site necessary to Support emergency response activities?			
26.	Were necessary modifications to the security program coordinated with the Emergency Security Team Leader Coordinator?			
27.	Were the periodic follow-up notifications conducted per procedure?			
28.	Were the initiating conditions or events posted on Plant Status Boards in a timely fashion?			
29.	Were the subsequent plant status reports posted in a timely manner?			
30.	Did the TSC have suitable communications with the field monitoring teams?			
••	Were the initial radiological conditions ascertained in a timely manner?			
32.	Did the Dose Assessment Coordinator receive proper data to be able to assess radiological conditions (e.g., meteorological data and release rate data)?			
33.	Did the TSC receive prompt information regarding permanent and portable radiological monitoring results?	_		
34.	Was effluent sampling information available?			
35.	Were the correct procedures and methods used for making dose projection calculations?			
6.	Were dose projections performed in a timely manner?			
37.	Was there a clear interface between the TSC staff and field monitoring teams?			



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# -Technical Support Center (TSC) Controller-

		Yes	No	Not Observed
38.	Did the Radiological Assessment Coordinator adequately coordinate the activities of the Onsite Survey Teams with those of the Radiological Monitoring Teams?			
39.	Were habitability surveys initiated by the Radiological Assessment Coordinator?			
40.	Was the TSC monitored for radiological hazards?			
41.	Did TSC personnel demonstrate the ability to properly define protective action recommendations?			
42.	Did the TSC have sufficient protective equipment and supplies for the personnel assigned to the TSC?			
43.	Was the status of the TSC ventilation addressed?			
44.	Were procedures available to, and used by, TSC personnel?	1 <u></u>		
45.	Were technical resources and other information, such as as-built drawings, maps, and emergency plan implementing procedures, readily available?			
46.	Was the operational and functional adequacy of the TSC demonstrated during the drill/exercise?			
47.	Was the ambient noise level in the TSC acceptable?			
48.	Was a post-drill/exercise critique held to evaluate TSC performance?			





		Yes	No	Not Observed
1.	Was the Emergency Response Manager notified following the Notification of Unusual Event and Alert declarations?			
2.	Was the EOF activated in a timely manner?			
3.	Were EOF personnel aware of their assigned work areas?			
4.	Was the EOF activated as prescribed in the emergency plan implementing procedures?			
5.	Were security controls exercised concerning personnel permitted access to the EOF?			
6.	Was there a clear and precise transfer of responsibility from the TSC staff to the EOF staff?			
7.	Did the Emergency Response Manager declare the EOF operational prior to accepting full responsibility for offsite activities?			
8.	Did the Emergency Response Manager maintain command control over the emergency response activities conducted from the EOF?			
9.	Was there a clear dissemination of authority and control in the EOF organization?			
10	. Did the EOF staff initiate and coordinate activities in an efficient and timely manner?		<u>.</u>	
11	. Were procedures available to, and used by, EOF personnel?			
12	. Did EOF personnel have up-to-date phone listings for onsite and offsite emergency contacts?			
13	. Were current plant status announcements and periodic updates made?			
14	. Did communications contain the statement "this is a drill," or a similar statement?			
15	Were appropriate EOF staff members aware of decisions regarding protective action recommendations for the general public and emergency workers within the 10-mile EPZ?			

SCN:87-3717 RNPD-87-05-RO

		Yes	No	Not Observed
16.	Did the EOF staff perform manpower projections to support contracted operations and notify the Administrative and Logistic Manager accordingly?			
17.	Did the EOF staff demonstrate the ability to obtain outside resources when station capabilities were exceeded?			
18.	Were communicators correctly assigned and communication checks performed in a timely fashion?			
19.	Were dedicated communication links available and operational?			
20.	Were the communication links between the EOF and other locations, including mobile personnel, effective?			
21.	Following changes in the emergency classification level, were notifications made to the proper authorities when required?			
22.	Did the EOF staff inform and update the appropriate County, State, and Federal emergency response personnel in a timely manner?			
23.	Did EOF personnel demonstrate the ability to gather, assess, and disseminate information regarding the status of emergency conditions and the status of emergency response activities in a timely manner?			
24.	Did the EOF staff demonstrate the ability to Support the TSC staff's efforts to identify the cause of an incident, mitigate the consequences of that incident, and place the unit in a safe and stable condition?			
25.	Did the EOF staff demonstrate the ability to analyze current plant conditions and identify projected trends and potential consequences?			
26.	Were there sufficient sources of technical expertise available and utilized?			
27.	Were technical resources and other information such as as-built drawings, maps, and emergency plan implementing procedures, readily available?			

SCN:87-3717 RNPD-87-05-RO

		Yes	No	Not Observed	
28.	Were procedures and other necessary documents used?				
29.	Did the EOF staff demonstrate the ability to utilize vendor and other outside resources to assist accident analysis and mitigation efforts where necessary?				
30.	Did the Radiological Control Manager demonstrate the ability to perform offsite dose assessment activities in a timely manner?				
31.	Did the EOF staff demonstrate the ability to perform timely assessments of offsite radiological conditions to support the formulation of protective action recommendations?				
32.	Was there an adequate flow of information between State and RNPD radiological assessment personnel regarding offsite radiological conditions?				
33.	Did the EOF staff effectively direct and coordinate the Radiological Monitoring Teams' activities?				
34.	Were the EOF radiological assessment personnel in frequent communication with the Radiological Monitoring Teams?				
35.	Did the Radiological Control Manager demonstrate the ability to coordinate the activities of the Radiological Monitoring Teams with those of the Onsite Survey Teams?				
36.	Were the emergency plan implementing procedures effectively used to provide adequate protection to station personnel and the general public?				
37.	Was there good communication between EOF personnel, State, and Local authorities regarding the protective action recommendations?				
38.	Was the operational and functional adequacy of the EOF demonstrated?				
39.	Was the ambient noise level in the EOF acceptable?				
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		Yes	No	No: Observed	
40.	Did the EOF have sufficient protective equipment and supplies for personnel stationed in the EOF?				
41.	Did the EOF staff demonstrate, if appropriate, the ability to de-escalate the emergency response based on current plant conditions and projected trends?				
42.	Did the EOF staff remain involved through the de-escalation of the emergency situation?				
43.	Was the EOF staff able to identify and discuss appropriate reentry and recovery activities based on current or projected conditions?				
44.	Was a post-drill/exercise critique held to evaluate EOF performance?				



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## -Plant Monitoring Team Concroller-

		Yes	No	Not Observed
1.	Did the team response to, and prepare for, survey tasks in a timely manner?			
2.	<pre>Did the team have the proper equipment? a. Dosimetry? b. Survey instruments? c. Maps? d. Protective clothing/respiratory protection equipment? e. Radio? f. Vehicle (if needed)? g. Sampling equipment?</pre>			
3.	Prior to deployment, was the team adequately briefed regarding potential hazards and conditions?	_		
4.	Prior to deployment, was a team leader identified?			
5.	Were the survey instruments and radios functionally checked prior to starting on the survey and were the instrument calibrations current?			
6.	Was personnel dosimetry available and issued to the team members?			
7.	Were teams supplied with appropriate high-range personnel dosimeters?			
8.	Were procedures followed while taking samples?			
9.	Were appropriate precautions taken in the handling and storing of any high-level samples?			
10.	Were samples collected in a timely manner?			
11.	Were samples analyzed within the required time limit?			
12.	Were emergency monitoring procedures available to, and used by, team personnel?			
13.	Were the capabilities in place for dealing with both heavily contaminated personnel and those individuals only slightly contaminated?			



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SCN:87-3717 RNPD-87-05-RO

#### -Plant Monitoring Team Controller-

		Yes	No	Not Observed
14.	Was respiratory protection equipment available and used while making the surveys?			
15.	Were communications properly maintained?			
16.	Did communications contain the statement "this is a drill," or similar statement?			
17.	Upon return, was the team properly debriefed?			

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-Environmental Monitoring Teams Controller-

		Yes	No	Observed
1.	Did team members arrive at the staging area and prepare themselves in a timely manner?			
2.	<pre>Was the team equipped with the following supplies: a. Survey instruments? b. Air samplers? c. Radio? d. Maps? e. Protective clothing? f. Respiratory protection equipment?</pre>			
3.	<pre>With respect to the team's vehicle: a. Was it fully gassed? b. Were the keys readily available? c. Was a release survey completed prior to deployment?</pre>	=		
4.	Prior to deployment, was a team leader identified?			
5.	Prior to deployment, did team personnel perform preoperational checks on the following equipment: a. Radio? b. Survey meters? c. Sampling equipment?	=		
6.	Were the instruments calibrated within the current calendar quarter or within the prescribed schedule?			
7.	Was the team briefed prior to dispatch?			
8.	Was the vehicle properly designed or modified to hold team members, and monitoring, protective, safety, and auxiliary equipment?			
9.	Were there enough team members to adequately conduct survey and sampling activities?			
10.	Was the vehicle and/or team equipped with an adequate radio system that permitted unimpeded transmission and reception of data and instructions?			



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## -Environmental Monitoring Teams Controller-

		Yes	No	Not Observed
11.	Did the EOF provide adequate instructions regarding what measurements were to be performed?			
12.	Did the radio communications contain the statement, "this is a drill," or a similar statement?			
13.	Were radio communications clear, concise, and accurate?			
14.	Were communications properly maintained?			
15.	Did the Environmental Monitoring Coordinator exhibit goud ALARA practices in directing team?			
16.	Was information transmitted to the EOF communicator in a timely manner?			
17.	Was the team kept apprised of the status of the emergency situation?			
18.	Were dose rate measurements taken to verify radiation levels while in transit to monitoring and/or sampling sites?			
19.	Was the team ablu to find the monitoring and/or sampling locations?			
20.	Did the team demonstrate a knowledge of proper survey and sampling techniques?			
21.	Did team personnel know how to operate and/or handle monitoring, sampling, and auxiliary equipment?			
22.	Were air samplers run for an appropriate time interval?			
23.	Were samples counted outside the plume?			
24.	Was the proper procedure used for field counting of airborne samples?			
25.	Were good sample handling techniques used to avoid cross-contamination?			



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## -Environmental Monitoring Teams Controller-

		Yes	No	Not Observed
26.	Was raw field data converted correctly to uCi/cc for both particulate and iodine airborne samples?			
27.	Were vehicle surveys performed periodically?			
28.	Was the team aware of sample drop location(s)?			
29.	Did the team members keep track of their individual exposure?			
30.	Were packet dosimeters checked on a regular basis?			
31.	Were data sheets properly filled out and maintained?			
32.	Were standby areas clearly identified to the team?			
33.	Were spare batteries available for portable radios?		-	
34.	Were backup instruments available in case of a failure of the primary instruments?			
35.	Were the team members and vehicle properly surveyed upon completion of their monitoring tasks?			
36.	Were the team members debriefed upon their return?			
37.	Upon return, was equipment returned to its original status?			



### -Medical Emergency Controller-

		Yes	No	Not Observed
1.	Was the information concerning the event transmitted properly to the Control Room?			
2.	Was the response team organized and dispatched quickly?			
3.	Prior to deployment, was a team leader identified and properly briafed?			
4.	Prior to deployment, were the radiological conditions analyzed for potential personnel hazards?			
5.	Prior to deployment, was the team adequately briefed regarding the actual or potential radiological and operational conditions?			
6.	Was access to the site coordinated with security to minimize ambulance and rescue team ingress and egress times?			
7.	Was health physics coverage available and utilized, if required?			
8.	Were access badges, dosimetry, and security escort standing by for ambulance or other emergency personnel?			
9.	Was the required equipment available to support the medical emergency response?			
10.	Was adequate first aid equipment available?			
11.	Was the worst-case situation philosophy exercised on the victim?			
12.	Were communications adequately demonstrated during the response (i.e., were they maintained on a frequent basis)?			
13.	Did the emergency response team follow proper procedures?			
14.	Were radiological controls implemented during evaluation, treatment, and transport?			
15.	Did the team practice contamination control during the response?			

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## -Medical Emergency Controller-

		Yes	No	Not Observed
16.	Did the ambulance have to wait for an excessive period of time to receive the victim for transport?			
17.	Were proper radiological controls practiced by the ambulance and hospital personnel?			
18.	Were proper release procedures practiced and followed?			
19.	Were appropriate procedures employed to minimize ambulance or other transport vehicle contamination?			
20.	Were appropriate procedures employed to maintain the hospital free of contamination?			





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#### -Corporate Emergency Operations Center (CEOC) and Plant Media Center (PMC) Controllers

		Yes	No	Observed
1.	Were the CEOC and PMC activated in a timely manner?			
2.	Were the CEOC and PMC activated as prescribed in the emergency plan implementing procedures?			
3.	Were procedures broken out and used?			
4.	Was there a clear dissemination of authority and control in the organizations?			
5.	Were dedicated communication links available with all necessary points of contact?			
6.	Did the CEOC and PMC staff initiate and coordinate activities in an efficient and timely manner?			
7.	Were current plant status announcements and periodic updates made?			
8.	Did the CEOC and PMC demonstrate operational and functional adequacy during the exercise?			
9.	Was there sufficient coordination in the preparation, review, and release of information to provide accurate and timely releases to the general public and news media?			
10.	Was the ability to establish, operate, and coordinate an effective rumor control demonstrated?			
11.	Were accurate and timely information releases made to the general public and the news media?			
12.	Did the PMC contain sufficient equipment and supplies to support all required public information activities?			
13.	Upon activation of the CEOC and PMC, was a check made to assure operability of all phone and telecopy equipment?			



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#### -Corporate Emergency Operations Center (CEOC) and Plant Media Center (PMC) Controllers-

		Yes	No	Not Observed
14.	Was a "Media Call" list used to properly notify representatives of the media of the emergency?			
15.	Was a post-drill/exercise critique held to evaluate CEOC and PMC personnel performance?			





-Assembly, Accountability, and Evacuation Controllers-

		Yes	No	Not Observed	
1.	Did the RNPD security organization mobilize and respond to the declaration of an Alert in a timely and effective manner?				
2.	Did RNPD security personnel adequately control site access in accordance with applicable security procedures?				
3.	Were appropriate security procedures available to, and used by security personnel?				
4.	Did communications contain the statement "this is a drill," or a similar statement?				
5.	Was site access limited to those persons necessary to perform emergency-related tasks?				
6.	Were security posts and access control points established and maintained as appropriate?			•	
7.	Did the RNPD security organization demonstrate the ability to account for all personnel in a timely manner?				
8.	Was the evacuation conducted in an efficient manner?				
9.	Did the security organization initiate steps to locate unaccounted-for individuals?				
10.	Were these steps coordinated with the Site Emergency Coordinator?				
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#### CAROLINA POWER & LIGHT COMPANY Exercise Critique Form

To	o: Chief Evaluator	Date:	<u></u>
1.	. Type of activity or facility observed (such notification, decontamination, public infor	n as off-site dose mation, TSC, EOF,	assessment, etc.):
2.	. Location:		
3.	. Date:		
4.	. Time: From To		
5.	. Procedure numbers that apply to activity an	nd/or facility eva	luated:
6.	. Names of personnel evaluated:		
7.	. With respect to the particular function or think that the Plan and Procedures are adeq	activity you are uate (explain if	evaluating, do you necessary)?
8.	Either here or in an attached report state aspects of the function or facility coserve observed.	your conclusions ed. Include good	as to the favorable points which you
9.	Either here or in an attached report, enume give your recommendations for corrective ac	erate the deficien tion. If you hav	cies observed and e none, so state.
10.	. Overall Rating:		
	Excellent - Satisfactory - Unsatisfactory -		
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Name Printed Evaluator's Own Dept. & Section

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