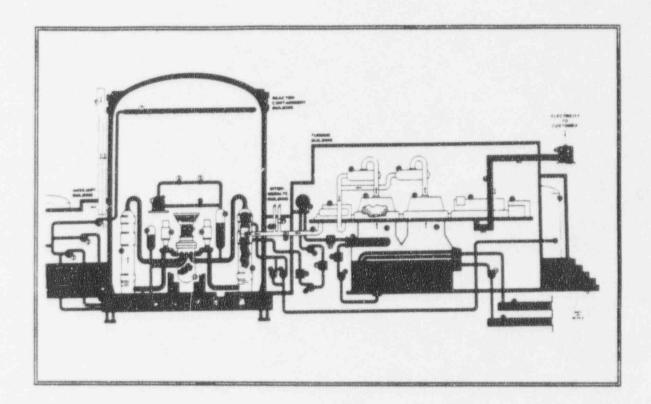
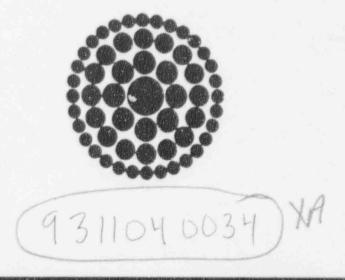
FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3

1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE



NOVEMBER 5, 1992





EXERCISE OBJECTIVES

GENERAL OBJECTIVES

- Demonstrate the ability to alert and mobilize FPC emergency response personnel and to activate FPC emergency response centers in a timely manner.
- 2. Demonstrate the adequacy, operability, and effective use of emergency communications equipment.
- Demonstrate the ability of FPC to support the State of Florida and local authorities in emergency response activities within the plume exposure pathway emergency planning zone.
- 4. Demonstrate that Areas Requiring Corrective Action observed in the 1991 Exercise have been corrected.

OPERATIONS OBJECTIVES (Control Room)

- Demonstrate the understanding of Emergency Action Levels (EAL's) and proficiency in recognizing and classifying emergency conditions.
- Demonstrate accident assessment and mitigation in the Control Room, including recognition and evaluation of degrading plant conditions, and recommendation of specific corrective actions to stabilize the plant.
- Demonstrate the ability to perform emergency notifications, as required, to the State of Florida, local authorities, and the Nuclear Regulatory Commission.
- 4. Demonstrate an effective turnover of Emergency Coordinator responsibilities between the Shift Supervisor and the Director, Nuclear Plant Operations or Man-On-Call.

ON-SITE EMERGENCY RESPONSE ORGANIZATION OBJECTIVES

- Demonstrate effective implementation of EM-206, "Emergency Plan Roster and Notification".
- Demonstrate site (Protected Area) evacuation and provisions to warn all personnel within the Owner Controlled Area.
- Demonstrate accident assessment and mitigation capabilities in the Technical Support Center (TSC).
- Demonstrate adequate management and control of on-site emergency response capabilities.
- Demonstrate an understanding of EAL's and proficiency in recognizing and classifying emergency conditions in the TSC.

- 6. Demonstrate the receipt and analysis of all field monitoring data and coordination of those results with non-FPC agencies at the Emergency Operations Facility (EOF).
- 7. Demonstrate an effective transfer of notification responsibilities from the Emergency Coordinator to the EOF Director when the Emergency Operations Facility is activated.
- 8. Demonstrate the effectiveness and control of the Emergency Repair Team.
- 9. Demonstrate the effectiveness and control of the Medical Emergency Team.
- 10. Demonstrate the effectiveness and control of the Plant Fire Brigade.
- 11. Demonstrate the effectiveness and control of the Emergency Sample Team (samples will be simulated).
- 12. Demonstrate the effectiveness and control of the Radiation Monitoring Team.
- 13. Demonstrate provisions and decision-making capability for utilization of evacuation routes.

CORPORATE EMERGENCY RESPONSE ORGANIZATION OBJECTIVES

- Demonstrate effective implementation of REP-02, "Activation and Notification of the Corporate Emergency Response Organization".
- 2. Demonstrate the ability to establish and maintain appropriate communications with State and Federal emergency management representatives including the recommendation of protective actions.

RADIOLOGICAL CONTROL OBJECTIVES

- 1. Demonstrate the ability to perform radiological monitoring and assessment in the plant and site environs.
- Demonstrate effective estimation and assessment of a (simulated) release
 of airborne radioactivity to the environment.
- Demonstrate the ability to provide the Emergency Coordinator and the EOF Director, timely and sound emergency protective action recommendations.
- Demonstrate the availability and operability of emergency supplies and equipment.
- 5. Demonstrate the ability to control radiological exposure to emergency workers and Generating Complex Personnel.
- Demonstrate the capability of decontaminating relocated on-site personnel.

ENGINEERING OBJECTIVES

 Demonstrate the capability of ascertaining the need for, and requisitioning, parts and components that will be used during recovery and corrective maintenance of damaged equipment.

SECURITY OBJECTIVES

- Demonstrate the ability to perform accountability on-site (Protected Area) within 30 minutes of a site evacuation.
- 2. Demonstrate the capability of maintaining on-site security throughout an emergency at CR-3, including the capability of establishing and enforcing access control points.

INFORMATION SERVICES OBJECTIVES

- 1. Demonstrate timely activation of the Emergency News Center.
- 2. Demonstrate the ability to obtain emergency related information.
- 3. Demonstrate the ability to disseminate timely, accurate, and appropriate emergency information.
- 4. Demonstrate the ability to coordinate the release of emergency related information with State and County Public Information Officers.

EXERCISE GROUND RULES

The 1992 Exercise will be quite different than in the past. For the first time, FPC is performing its annual exercise using the Simulator. This will improve the realism of the exercise and allow for active participation of the operators. However, since the actions of the operators can not be totally predictable, problems that have not surfaced in past exercises may surface this exercise.

Computerized displays of plant parameters, driven by the simulator will be established in the EOF and TSC. The displays will update parameters every four minutes. Since the parameters are based on real time operator action in the simulator, they will be somewhat different than the parameters listed in the scenario.

As long as the simulator remains on line, many of the Message Cards will not be handed out to the participants (particularly Control Room cards). If the simulator should fail, all facilities will be contacted and the use of the Operations Message Cards will begin. It is important to realize that the parameters will change significantly during the transition. Hardcopy plant parameters will be handed out by Controllers in the TSC and EOF.

All Exercise PARTICIPANTS are required to observe the following ground rules during the Exercise. Questions concerning these rules should be resolved prior to the start of the Exercise.

- If an actual emergency condition occurs during the conduct of this Exercise, all activities and communications related to the Exercise will be suspended.
- 2. If an unsafe condition arises, or exists, cognizant personnel must ignore the Exercise situation and take immediate actions to restore safety.
- 3. Manipulation of plant operating systems, valves, breakers, or controls in response to this Exercise are only to be simulated. Do not alter any plant operating equipment, systems, or circuits during the response to this Exercise.
- 4. No pressurization of fire hoses, discharging of fire extinguishers, or initiation of fire suppression systems should occur as part of the response to this Exercise.
- All operation of motor vehicles that occurs in response to this Exercise must comply with State and local laws governing use of motor vehicles.
- 6. All telephone communications, radio transmissions, and public address announcements related to the Exercise must begin and end with the statement, "THIS IS A DRILL" or "THIS IS AN EXERCISE." If communication lines are kept open for an extended period of time, the statement should be repeated periodically (especially when transmitting messages over systems that are monitored by non-FPC personnel).
- 7. If on-site security actions are required as part of the response to this Exercise, Exercise participants must cooperate with Security

representatives. Security representatives must also be prudent and tolerant in their actions toward Exercise participants.

- 8. Meteorological, plant, and dose assessment data will be supplied by the Exercise Controllers. Real time data will be utilized only at the direction of a Controller.
- 9. If you believe that the Exercise has revealed deficiencies in emergency plans, procedures, training, or equipment, note it or inform a Controller. Do not trust that you will remember the problem later.
- 10. Assure that an FPC Controller is aware of your key actions and decisions. Do not assume that a simulated or unobserved action was noted.
- 11. Whenever collection of a sample (on-site or off-site) is deemed necessary, the samples must actually be collected, and their analysis conducted, if possible (except for PASS samples). (In some circumstances the Controller may stipulate that sample collection or analysis be simulated.) All survey teams will be accompanied by a Controller.
- 12. Do not improvise information. Use only information provided by a Controller, results from the Simulator actions taken, or derived from approved procedures. The Controller will provide only selected parameters and instrument readings. The selected information will be sufficient to make decisions in accordance with FPC plans and procedures.

ADDITIONAL PARTICIPANT RESPONSIBILITIES

- Give all data collected, notes taken, procedures used to the Controller in your area.
- 2. Remain after the exercise for a "participant's" critique. Fill out the "Participant's Drill Critique Report" that will be given to you after the drill.

CONTROLLERS

- 1. A controller who observes or becomes aware of an actual emergency is responsible for suspending Exercise response in his/her immediate area, and for informing the Exercise Manager of the situation.
- A Controller who observes an Exercise participant undertake an action that would place either an individual or a component in an unsafe condition is responsible for intervening to terminate the unsafe activity immediately, and for informing the Controller of the occurrence.
- 3. Controllers must monitor telephone, radio, and public address communications to assure that each participant begins and ends his message with the statement, "THIS IS A DRILL" or "THIS IS AN EXERCISE." If this practice is not observed, it is the Controller's responsibility to remind the participant to follow this procedure.

- 4. A Controller who becomes aware of non-participating individuals who may have observed Exercise activities or overheard Exercise communications is responsible for assuring that these individuals are not misled into believing that an actual emergency exists.
- 5. Controllers are not required to protect themselves from simulated radiological hazards associated with the Exercise scenario. They are not, however, exempt from CR-3 radiological control procedures.

ADDITIONAL CONTROLLER RESPONSIBILITIES

- 1. Review appropriate procedures and evaluate the exercise performance on the basis of standards or requirements contained in the Radiological Emergency Response Plan and associated implementing procedures
- 2. Collect all data, notes taken and procedures used from the drill participants.
- Hand out a "Participant's Drill Critique Report" to each participant. Conduct a "Participant's Critique" immediately following the exercise, documenting problems and concerns they identify.
- 4. Fill out the "Exercise Evaluation" for the area you observed. Make sure participants are named and each problem or deficiency (ARCA) identified has a recommended corrective action. Also identify any "Concerns" noted.
- 5. Attend Controller's Critique.

CONTROL ROOM/TSC/EOF LEAD CONTROLLER

- Point of contact for facility.
- Notify Exercise Manager of events that may alter scenario or cause the possible suspension of the exercise.
- Coordinate emergency termination with Exercise Manager.

EXERCISE MANAGER

- Upon notification of an actual emergency, the Exercise Manager will notify all Facility Lead Controllers to suspend Exercise-related activity.
- 2. Upon notification that an Exercise participant has undertaken an action that would place either an individual or a component in an unsafe condition, the Exercise Manager will determine whether to continue, place a temporary hold on, or terminate the Exercise.
- 3. The Lead Controllers and Exercise Manager must maintain cognizance of Exercise progression and may alter the flow of the Exercise to accommodate variance in the response times of the participants.
- 4. The Exercise Manager must coordinate exercise termination with state and local controllers to assure all exercise objectives have been tested prior to termination.

CONTROLLER LOCATIONS

November 5, 1992

SIMULATOR CONTROL ROOM (5)

2 - Instructor Booth

2 - Control Panel Area

1 - Rad/Met Panel

CR-3 CONTROL ROOM (1)

1 - Controller Communicator

CONTROL ROOM/OPERATIONAL SUPPORT CENTER (2)

TECHNICAL SUPPORT CENTER (11)

1 - TSC Lead Controller

I - Emergency Coordinator

1 - Dose Assessment/Chemistry

1 - Radiation Monitoring (Environmental) Team5 - Emergency Repair/Radiation Monitoring Team

1 - Emergency Sample Team

1 - Communicator

FIRE/MEDICAL SCENES (4)

2 - Fire Brigade

2 - Medical Emergency Team

SECURITY (3)

1 - Central Alarm Station/In Plant

1 - Secondary Alarm Station

1 - TSC

MAIN ASSEMBLY AREA (1)

EMERGENCY OPERATIONS FACILITY (7)

1 - EOF Lead Controller

1 - EOF Director (Main Conference Room)

1 - FPC Main Conference Room

1 - Dose Assessment/DHRS Interface

3 - Emergency News Center

EXERCISE MANAGER (1)

1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE MISCELLANEOUS INFORMATION

SIMULATION:

The following events/notifications will be simulated:

- 1. Notification to offsite Law Enforcement Agencies.
- 2. Operation of the Post Accident Sampling System (PASS). Sample Team members will be required to step through appropriate procedures when samples are simulated.
- 3. Notification of off-site medical support (EMS, Hospitals)

MOCK-UPS:

The following mock-ups will be in place for the Exercise:

- A mock-up will be in place for the failed Main Steam Safety Valve (MSV-33). It will be located immediately inside the entrance doors to the Intermediate Building.
- A mock-up will be in place to simulate the crack in the Feedwater, exhaust trunk expansion joint (the crack will be indicated on the actual exhaust trunk).
- 3. A mock-up will be in place to simulate the leaking Cardox Valve on the 199' elevation of the Turbine Deck.
- A mock-up will be in place to simulate the RM-A12 ratemeter in the CR-3 Control Room.
- 5. A smoke generator will be used at the fire scene.

CONTROLLER GUIDELINES

November 5, 1992

ALL CONTROLLERS: RECORD NAMES OF PARTICIPANTS IN YOUR AREA

Don Smith/Chuck Crosten/Chuck Arbuthnot/Paul Fleming

1) Report to the Simulator Control Room at 0630, begin review of Ground Rules with participants and distribute participant's badges.

2) Distribute Calling Cards with Simulator phone numbers to participants.

3) Give Ops Message Cards when appropriate or if simulator fails.

All onsite notifications will be made (including CR-1,2,4,&5 by commercial phones). State and NRC notifications will be made. All other offsite notifications (EMS, Hospital, etc.) will be simulated (the NRC Ops Center will likely ask for subsequent notifications to be simulated).

5) Establish contact with Tom Miller in the CR-3 Control Room to set up communications with plant operators on site to help assure dispatched operators have a Controller with them. If a Controller is not available provide the needed information at an appropriate time to the CR-3 Control Room.

Be prepared to remove the ANSS @ 0730 and @ 1010 to coincide with the ANSS being dispatched to the fire and medical scenes at the plant.

7) Distribute Participants Critique Forms at the end of the Exercise and conduct an in-place critique immediately following the Exercise.

8) Assure that the communications are switched back to "Simulator Only" after the Exercise.

Tom Miller

- Report to the CR-3 Control Room at 0630, begin review of ground rules with participating operators and pass out participants badges and calling cards.
- Provide an additional Operator in the CR-3 Control Room to make PA announcements, sound evacuation/fire alarms, and to provide CR-3 Control Room repair information to the simulator.

3) Establish communications with simulator controllers in the instructor booth.

- 4) Assure the CR-3 Control Room lets the 311 emergency phone ring a minimum of 4 times. Calls should be coming in at approximately 0735 and 1010.
- 5) Follow this procedure for implementing routine operator actions/surviellances:
 - a. Simulator operators contact NAOs to direct action.
 - b. Tom Miller waits an appropriate time, calls the simulator instructor booth (ext. 6283) informs them that the action has been taken.
 - c. Tom Miller tells the NAOs to radio the information to the Simulator control room.
- 6) A Turbine Building Operator should respond to the vacuum leak at 1040-1050 and receive info from Walt Pittman.
- 7) Distribute Participant Critique Forms at the end of the Exercise and give participants an opportunity to discuss problems.

Steve Chapin

1) Assure REDAS simulator is operational in the EOF.

2) Report to the Simulator at 0630.

3) Establish contact with Fuller in the TSC to set up TSC REDAS display.

4) Provide Rad/Met data when requested.

- 5) Assure the phone calls to the Simulator Control Room are made @ 0720 and 0815.
- 6) Terminate the Exercise at the direction of the Exercise Manager.

Marjie Williams

1) Report to the CR-3 Control Room at 0630 to assist Tom Miller.

2) Report to the TSC at 0730 to Observe Man-on-Call response including CR/TSC turnover.

3) Continue to observe EC in the TSC.

Ron Fuller

1) Report to the TSC at 0630.

- 2) Establish contact with Steve Chapin to set up TSC REDAS displays.
- Provide hardcopy REDAS data to the TSC if necessary.
 Evaluate Dose Assessment and control of field teams.

5) Provide Chemistry data as appropriate.

Ahmad Kazemfar

Report to the TSC at 0700.

 Evaluate Environmental Survey Team response and utilize radio-controlled meters.

3) Be prepared to observe response to the 1145 Radwaste accident.

Walt Pittman

1) Assure mock-ups are in place prior to Exercise start for MSV-33, Exhaust trunk expansion joint, and the Cardox valve.

2) Report to the TSC at 0700.

3) Distribute calling cards to participants in your area.

4) Instruct Lead Maintenance person to notify you prior to dispatching any team from the TSC <u>OR</u> the OSC. Provide needed information for the Teams.

Be prepared to give additional info concerning the Feedwater Booster Pump 1A shaft seizure.

6) Accompany team to the Intermediate Bldg. to the MSV-33 mock-up at approx. 0900 and provide needed information. The Team may complete work anytime from 1000-1020. CALL THE SIMULATOR INSTRUCTOR BOOTH (PAX 382) WHEN THE REPAIR IS COMPLETE BEFORE THE TEAM RADIOS BACK TO THE TSC.

7) Report back to the TSC after the MSV repair is complete.

Walt Pittman (cont.)

Report to the Expansion Joint Mock-up at 1030 and provide operator with 8) needed information and wait for the Repair Team (Pat Ezell will be with them). CALL THE SIMULATOR INSTRUCTOR BOOTH (PAX 382) WHEN THE REPAIR IS COMPLETE BEFORE THE TEAM RADIOS BACK TO THE TSC.

Report back to the TSC with the expansion joint repair team.

Accompany the repair team from the TSC to the leaking Cardox Valve. 10) Repair time is not important to the scenario, after the repair is completed return to the TSC. TEAM MAY RADIO INFO ANY TIME AFTER THE REPAIR.

Dave Easter

Assure mock-ups are in place prior to Exercise start time for the TSC AHF-1) 62 failure and the RM-A12 failure (RM-A12 mock-up needs to be outside the CR-3 control room in the hallway.
Report to TSC at 0700 and assist Pittman until 1100.

Be prepared to implement AHF-62 failure in the TSC at 1115. 3)

Report to the OSC at 1330 to implement the RM-A12 repair to completion. 4) CALL THE SIMULATOR INSTRUCTOR BOOTH (PAX 382 OR EXT. 6283) WHEN THE REPAIR IS COMPLETE AND BEFORE THE TEAM REPORTS THAT RM-A12 IS REPAIRED.

Bob Parker/George Cadwell/Pat Ezell

Report to the TSC or Chem-Rad at 0700, establish contact with Walt Pittman 1) in the TSC. Provide Radiological Data for the teams dispatched (all dose rates are actuals prior to 0830). Assure participants have calling cards.

Report to the TSC if appropriate or when Chem-Rad re-locates. Instruct H.P. to notify you before anyone is dispatched. 3)

Coordinate with Walt Pittman and Dave Easter to assist them in controlling 4) ERT or RMT activities.

George Cadwell - Stay with HP Planner and assure all teams have 5)

controllers.

Bob Parker - Report to the Security Operations Center @ 0830 to give the 6) Message Card to two randomly-selected individuals during evacuation. Provide contamination info. and follow them back to the TSC. Ask the monitors to step through what they would do and assure the decon shower is operational.

Pat Ezell - Be prepared to accompany Repair Team to the Expansion Joint 7) mockup at approximately 1040. Pittman will be there to implement the repair, assist him with communications with the simulator instructor

booth.

Dave Worley

Report to the TSC at 0700.

Assure participants have calling cards.

Be prepared to accompany Sample Team and have the Team step through the 3) appropriate procedure.

Coordinate with Cadwell and Fuller to provide assistance if necessary. 4)

Bob Blume/Ken Linhart

1) Report to the plant at 0700.

Select and stage victim (member of Fire Brigade) and a partner in the Aux. Bldg. for the 0733 injury on 119' elevation.

3) Evaluate the medical response and terminate the drill once victim has been

prepared for transport either at the scene or at the RCA exit.

4) Make it clear to participants, particularly Security that ambulance

response is simulated.

Report to the Intermediate Bldg. entrance at 0930 and be prepared to implement the medical events. Randomly select a Repair Team member to give the Message Card to. Evaluate the medical response and terminate the drill once the victim has been adequately attended to.

6) Assist Walt Pittman with communications to the simulator instructor booth.

7) Ken - Report to the TSC to observe Dr. Kessler.

Bob - Report to the ENC and check in with Mark Johnson.

Jim Frijouf

 Report to the OSC/CR-3 Control Room at 0700 and distribute calling cards to participants as they arrive.

) Assist Dave Easter in communication with the simulator instructors booth

during RM-A12 repairs.

Assist Tom Miller in Ops Control.

4) Distribute Participant Critique Forms immediately after the Exercise.

Joan Bufe'-Carr

Report to the OSC @ 0700 and assist Frijouf.

 Report to the Nuc. Admin Bldg @0830 and assist Bob Nicholas with observing Site Evacuation and accountability.

3) Call John Pelham @0905 and read Controller Instruction #19.

4) Report back to the OSC.

Jay Russell/Alan Arnold

1) Report to the "B" Diesel room at 0700 to prepare to implement fire.

Assure participants have calling cards for the simulator.

3) Provide appropriate info to the ANO at approx. 0725.

4) Provide info to FTL until 0800 (Fire begins at 0725) and then secure from drill.

5) Alan Arnold - Report to the TSC after fire drill and accompany Walt Pittman to the Intermediate Bldg. at 0900 to provide Rad Data.

6) Jay Russell - Report to the TSC and check in with Sam Mansfield to assist

as a Controller when needed.

7) Alan Arnold - Report to the scene of the RadWaste accident at 1100 to provide Rad Info to FPC and County personnel.

Tom Neaman

1) Report to the TSC at 0700.

2) Evaluate Security response in TSC.

3) Assure the security Rep is aware that all actions associated with the bomb threat are simulated (Security should walk through their intended actions with the Controller).

3) After accountability is complete and has been announced in the TSC notify

Al Engle and/or Bob Nicholas at the Security Operations Center.

Al Engle

1) Report to Security Operations Center at 0730 and assure participants receive calling cards for simulator.

2) Evaluate Security response at Security Operations Center.

Assure Security is aware that the ambulance response will be simulated.

Bob Nicholas and/or Joan Carr will verify with you that the Guardhouse is ready for personnel re-entry before allowing evacuated personnel to re-enter.

Ed Carver

1) Report to the "B" Diesel Room at 0700 and coordinate with Russell and Arnold to stage fire scene. Then report to medical scene with Blume and Linhart (assure that Security is aware that offsite ambulance response will be simulated when the ambulance is requested.)

Evaluate Security response for balance of plant.

3) Evaluate Security response to injury and fire.

Bob Nicholas

Report to the TSC at 0730.

2) Report to the Nuc Admin Bldg at 0815 prior to plant evacuation.

Observe Reed Clarke or Steve Rainwater (evacuation supervisor). You will be assisted by Joan Carr.

After accountability is complete, walk to the Security Operations Center and verify with Al Engle that Security is ready for personnel to re-enter.

5) Notify Clarke or Rainwater that personnel may return to the Protected Area.

Be prepared to follow assembled personnel to Warehouse Area, if they are moved based on the Bomb Threat.

7) After personnel have re-entered, report to the EOF/ENC to act as mock media (check in with Mark Johnson, Dom Salute, and Frieda Frando.

Sam Mansfield

1) Report to the TSC at 0700.

2) Assure TSC Controllers are in place.

Assure participants receive call cards for simulator.
 Coordinate ERT/RMT Controllers with outgoing teams.
 Terminate Exercise when directed by Exercise Manager.

6) Assure all documentation is collected when drill is terminated.

7) Distribute Participant Critique Forms immediately after the Exercise.

8) Lead the TSC Participants/Facility Critique.

Mike Laycock

Report to the EOF at 0700.

2) Assure set-up is completed properly:

FAX Machines
 PAR Conf. Room

- ENC Lobby (including signs outside)

TV Hooked up

- Computers for PIO area, Main Conf. Room, RECALL Simulator, HRS Dose Assessment

3) DO NOT allow DEM or DHRS entry into the EOF Main Conference Room or other work areas until the EOF is operational (coordinate with the State Lead Controller.)

5) Terminate the Exercise when directed by the Exercise Manager.

Pete Ezzell

1) Report to the EOF at 0800.

2) Evaluate EOF Dose Assessment and interface with DHRS.

Ron Shires

Report to the EOF at 0800.

 Evaluate activities in the EOF Main Conference Room, particularly all EOF Director Activities.

Blair Wunderly

Report to the EOF at 0800.

 Evaluate activities in the FPC Conference Room (Assistant EOF Director, RECALL Operator, Engineering.

3) Distribute hard copy REDAS data to the RECALL Operator if necessary.

Mark Johnson/Dom Salute/Frieda Frando

Report to EOF at 0800.

2) Evaluate ENC activities including acting as media.

Coordinate with Blush to discuss plans for mock media (mock media should be implemented based on actual media response).

1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE NARRATIVE SUMMARY

Initial Conditions:

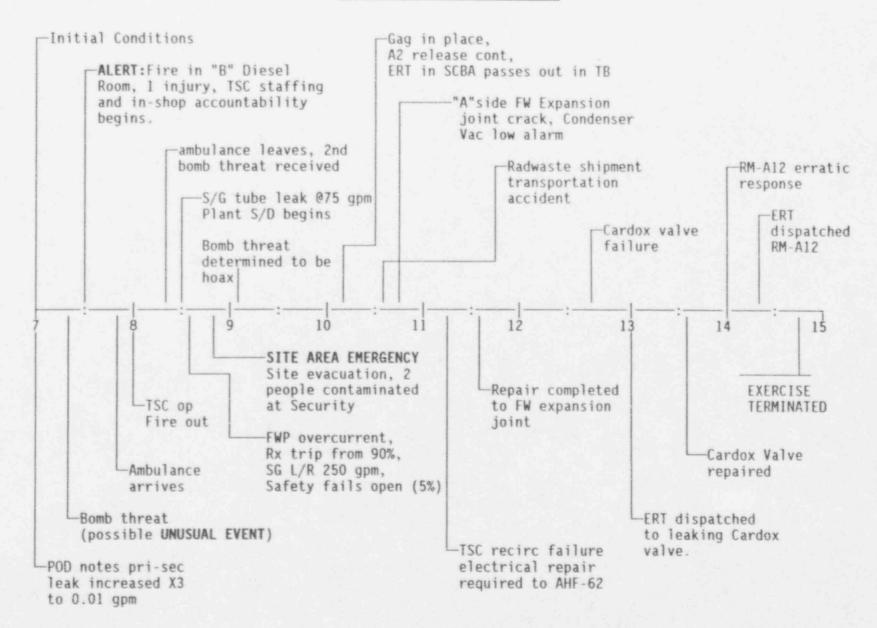
- The unit has been operating at full power for 3 months.
- Primary to secondary leak rate is about three times normal (0.01 gpm in A-OTSG).
- (0.01 gpm in A-OTSG).

 A radwaste shipment carrying drums of compacted waste is exiting the protected area.
- 0700 The Initial Conditions are given to the Simulator Control Room operators.
- O720 The Simulator Control Room receives a telephoned bomb threat stating that a bomb has been planted in the Nuclear Administration Building. No other details are known at this time.
- O725 The AC Lube Oil Recirc Pump motor seizes/shorts causing oil to spray into the "B" Diesel Room and to ignite.
- O726 The Simulator Control Room receives a fire alarm from the Emergency Diesel Generator Engine Room and sends an ANO to investigate.
- O727 The Simulator Control Room receives verification of a Fire Pump Start and an alarm that the sprinkler system in the diesel has actuated.
- O728 The ANO confirms that there is a fire in the "B" Diesel Generator Room. The Fire Brigade is dispatched to the scene.
- 0733 A fire brigade member hurrying to respond to the fire trips and falls down the stairs beside the elevator on the 119' elevation of the Auxiliary Building.
- O735 The Assistant Shift Supervisor reports that there has been one injury and that an ambulance is required. The MET is dispatched to the scene and Citrus EMS is notified via 911. (SIMULATED)
- O738 An <u>ALERT</u> is declared based on a fire lasting greater than 10 minutes. TSC staffing is initiated and in-shop accountability begins.
- 0747 The ambulance arrives on-site. (SIMULATED)
- OBOO The Assistant Shift Supervisor reports that the fire is out and that the governor motor and wires are burnt. The Diesel Lube Oil Recirc Pump and motor are also damaged. The "B" EDG is declared inoperable and the plant enters a 72 hour action statement.
- 0808 The TSC is declared operational.
- 0815 The Simulator Control Room receives a second bomb threat call.

- 0820 The ambulance exits the protected area (simulated).
- 0830 An eroded tube in A-OTSG fails and begins leaking at 75 gpm.
- 0831 Plant shutdown begins by procedure.
- O833 Feedwater Booster Pump 1A Shaft seizes and the pump is lost due to overcurrent. The reactor trips at about 90% power causing the tube leak to increase to 250 gpm. All main steam safety valves and atmospheric reliefs vent momentarily initiating an unmonitored environmental release. When the valves reseat, one valve (MSV-33) fails slightly open allowing the release to continue.
- 0838 A <u>SITE AREA EMERGENCY</u> is declared based on an OTSG leak greater than 200 gpm. EOF activation begins.
- O839 A Nuclear Auxiliary Operator is dispatched to pop the safety valve. This has no effect.
- 0853 While exiting the Security Building during the site evacuation, two workers who had been in the Auxiliary Building, are found to be contaminated.
- 0858 A repair team is dispatched from the TSC to repair the leaking main steam safety valve.
- 0905 Corporate Security is notified that a suspect responsible for the bomb threats has been apprehended. It has been determined that the threats were a hoax.
- 0933 The EOF is declared operational
- 1010 The repair team installs a gag on the leaking safety valve stopping the unmonitored release. However a lower level release continues through the condenser and the Auxiliary Building vent. While exiting the Intermediate Building, one of the ERT members (wearing SCBA) passes out. The EC is notified and the MET is dispatched.
- 1025 The MET reports that the ERT member was overheated and is now conscious. He is being returned to the TSC.
- A report is received from the Florida Highway Patrol (FHP) that the radwaste truck has been involved in an accident. After exiting the protected area this morning, the driver stopped for breakfast and then took a short nap in his sleeper cab. While traveling north on US 19 in Levy County, a cement truck ran a stop sign striking the semi-trailer broadside causing it to jack-knife and flip onto its side. The doors of one of the sea/land containers came open and some of its contents spilled. The FHP confirms that one of the investigating officers has a meter and has detected radioactive materials strewn along the roadway. Immediate assistance is requested.

- 1041 The Exhaust Trunk Expansion Joint on the "A" Feedwater Pump Turbine cracks causing the Simulator Control Room to receive a Condenser Vacuum Low alarm. A one-inch per minute vacuum leak decreases condenser vacuum until the Backup Air Removal Pumps auto start.
- 1051 The Turbine Building Operator reports the location of the vacuum leak to the Simulator Control Room.
- 1056 A repair team from the TSC is dispatched to the Feedwater Pump.
- 1115 While in the recirc mode, Air Handling Fan 62 (AHF-62) trips due to a blown fuse and causes the failure of the TSC ventilation.
- 1136 Repairs to the feedwater expansion joint are completed.
- 1233 A leaking Cardox Valve is observed at the Cardox Tank on 119' elevation of the Turbine Building, the Simulator Control Room is notified.
- 1253 A repair team from the TSC is dispatched to the leaking Cardox valve.
- 1335 The Cardox valve is repaired.
- 1400 RM-A12 begins to respond erratically, failing low and then returning upscale.
- 1415 An I&C repair team from the TSC is dispatched to RM-A12.
- 1445 The Exercise is terminated.

1992 RERP EXERCISE TIME LINE



FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 1

TIME: 0700

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 1 and the Exercise Plan of the Day to the Nuclear Shift Supervisor.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 1

TIME: 0700

TO: Nuclear Shift Supervisor

MESSAGE: Initial Conditions

PLANT STATUS:

- The unit has been operating at full power for 3 months.
- Primary to secondary leak rate is about three times normal (0.01 gpm on OTSGA).

EQUIPMENT STATUS:

- Makeup Pump 1B is running
- Makeup Pumps 1A and 1C are selected for ES Service

MAINTENANCE ACTIVITIES:

- A radwaste shipment carrying drums of compacted waste is exiting the protected area.
- Routine SPs and PMs



CRYSTAL RIVER UNIT 3 DAILY PLANT STATUS REPORT

DAY THURSDAY DATE 11/05/92 TIME 0500

MODE 1 RATED POWER 100 MWTH 2542 MWE 879 MVAR 140 EFPD 98.2 FUEL 0.019 MCI/ML RCS LEAKRATE (GPM) - IDENTIFIED 0.2 UNIDENTIFIED 0.1 PRIMARY/SECONDARY 0.01 CONDENSER AIR IN-LEAKAGE: 5.0 SCFM CONDENSER INLET TEMPERATURE: 78.0°F

VACUUM 28.0 "HG

RCS BORON (PPM) 1158

A 82

OTSG OP LEVELS: CONDENSER 02:

CONDENSER SODIUM:

A 1.33 ppb 3.5 ppb

78 %

4.71 ppb

2.0 ppb

RC PUMP SEAL STAGE PRESSURES (PSIG)

	RCP-1A	RCP-1B	RCP-1C	RCP-1D
2ND STAGE	1401	1407	1389	1472
3RD STAGE	664	691	738	800

PLANT OUTPUT LIMITED BY:

SPECIAL PLANT PROBLEMS/SPECIAL REQUIREMENTS/UNUSUAL CONDITIONS

0.01 GPM Primary/Secondary Leakage A - OTSG A shipment of RADWASTE will be trucked out today

**** STS ACTION STATEMENTS IN EFFECT ****

STS

TITLE

ENTRY DATE/TIME ACTION

3.7.12

Fire Barriers 03-01-90/ 1410

Hourly Roving Patrols

**** PREVIOUS 24 HR GENERATION DATA (0000 - 2400) ****

CR3 MW Hours 20,874

System MW Hours 95,594

CR3 (% of Total) 21.8

Capacity Factor (% of 860 Mwe) 102.2

CAPACITY FACTOR TO DATE:

1992 GOAL: 78.1 %

FOR CYCLE: 96.0 %

FOR YEAR: 70.6%

SAFE, LEGAL, EFFICIENT

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 2

TIME: 0720

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Call the Simulator Control Room (via ext. 3933) and read the following message:

"THIS IS A DRILL. I have planted an explosive device in the Nuclear administration building. Hickle can kiss his office goodby. I am fed up with Florida Power and the way they treat their employees. THIS IS A DRILL."

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 2

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE November 5, 1992

CONTROLLER INSTRUCTION

NO. 3

TIME: 0725

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 3 to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 3

TIME: 0725

TO: Simulator Control Room Operator

MESSAGE:

The Simulator Control Room receives the following alarm(s):

FIRE SYSTEM TROUBLE (F-C)
EMER DSL GEN ROOM FIF (A-S).5 on Fire Panel)

ADDITIONAL INFORMATION:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 4

TIME: 0726

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 4 to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1962 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 4

TIME: 0726

TO: Simulator Control Room Operator

MESSAGE:

The Simulator Control Room receives the following alarm(s):

FIRE PUMP 3A RUNNING (A-2-6 on Fire Panel) FIRE PUMP 3C RUNNING (A-2-14 on Fire Panel) FIRE PP HOUSE FAN TROUBLE (F-5-5)

ADDITIONAL INFORMATION:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 5

TIME: 0728

LOCATION: "B" Diesel Generator Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 5 to the individual responding to the fire alarm.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 5

TIME: 0728

TO: The individual responding to the fire alarm.

MESSAGE: You observe smoke and flames in the "B" Diesel Generator Engine Room. The sprinkler system is operating.

ADDITIONAL INFORMATION:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 6

TIME: 0730

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Assure the Fire Brigade is dispatched.

THE NUCLEAR ASSISTANT SHIFT SUPERVISOR (FIRE TEAM LEADER) MUST EXIT THE SIMULATOR CONTROL ROOM WHILE THE FIRE TEAM LEADER IS RESPONDING TO THE FIRE. COORDINATE THIS ACTIVITY WITH THE PLANT CONTROL ROOM CONTROLLER.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 6

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 7

TIME: 0733

LOCATION: 119' elevation Auxiliary Building Stairwell from 143' elevation.

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 7 to a responding Fire Brigade Member.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 7

TIME: 0733

TO: Responding Fire Brigade Member

MESSAGE:

While en route to the Fire Cart you have fallen down the stairs. You have severe pain in your back and left arm. You are conscious.

ADDITIONAL INFORMATION:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

CONTROLLER INSTRUCTION

NO. 8

TIME: 0733

LOCATION: 119' Aux. Bldg Stairs to 143' elevation.

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 8 to a responding Fire Brigade Member at the same time Message Card #7 is given to the "injured person."

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 8

TIME: 0733

TO: Responding Fire Brigade Member (other than the injured person).

MESSAGE: You observe that a Fire Brigade Member has fallen down the stairs.

ADDITIONAL INFORMATION:

CONTROLLER INSTRUCTION

NO. 9

TIME: Approx. 0735 (or when the victim survey is completed).

LOCATION: Injury Scene

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 9 to the individual who performs the victim survey.

ADDITIONAL INSTRUCTIONS: Vital signs can be given verbally in lieu of Message Card #9.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 9

TIME: Approx. 0735 (when the victim survey is completed.

TO: First Responder

MESSAGE: Vital signs will be provided by the Controller as they are monitored.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 10

TIME: 0735

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Assure all necessary medical notifications have been made. All offsite notifications to Ambulance and Hospitals will be simulated. The drill will be terminated at the RCA exit point.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 10

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 11

TIME: 0738

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

The fire has not been extinguished. Assure an ALERT is declared in a timely manner based on a fire > 10 minutes in duration potentially affecting safety-related equipment (10 minutes from confirmation of fire).

Also assure TSC staffing is initiated.

ADDITIONAL INSTRUCTIONS:

Assure the beeper page system is activated.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 11

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 12

TIME: 0800

LOCATION: Fire Scene/Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 12 to the Fire Team Leader

ADDITIONAL INSTRUCTIONS:

SIMULATOR CONTROL ROOM CONTROLLER

Assure "B" EDG is declared inoperable after initial damage assessment and that the plant enters a 72 hour action statement.

TSC CONTROLLER

Assure Repair Team is dispatched to "B" Diesel room to mock-up. Team should request appropriate parts to be gathered. Warehouse should pull the parts and hold.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 12

TIME: 0800

TO: Fire Team Leader

MESSAGE:

The fire is out. The governor motor and wiring is burnt. The Diesel Lube Oil Recirc Pump and motor are also damaged.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 13

TIME: 0815

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Call the Simulator Control Room (via ext. 3933) and read the following message to whomever answers:

"THIS IS A DRILL. Well, I see the telephone still works, so the bomb hasn't gone off yet! Give up trying, you'll never find it. It's going off today. THIS IS A DRILL."

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPONATION CRYSTAL RIVER UNIT 3 1992 NADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 13

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

CONTROLLER INSTRUCTION

NO. 14

TIME: 0830

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

When the operator goes to the Steam Line Monitors, perform the following:
Give Message Card No. 14 to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

Provide RM-G27 reading of 200 mr/hr when operator checks panel.

Assure shutdown procedures are initiated based on the OTSG leak.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE November 5, 1992

MESSAGE CARD

NO. 14

TIME: 0830

TO: Simulator Control Room Operator

MESSAGE: The Simulator Control Room receives the following alarm(s):

MN STM LINE A/B HIGH RAD MONITOR FAIL (H-1-5)

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 14(a)

TIME: 0831

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Provide the following operations data when requested by an operator:

LETDOWN FLOW = 60 GPM

MAKEUP FLOW = 120 GPM

SEAL INJECTION = 40 GPM

PZR LEVEL = 200 inches trending upward slightly

RM-A12 = Trending Upward

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE November 5, 1992

MESSAGE CARD

NO. 14(a)

TIME: 0831

TO: N/A

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 15

TIME: 0833

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 15 to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE November 5, 1992

MESSAGE CARD

NO. 15

TIME: 0833

TO: Simulator Control Room Operator

MESSAGE: The Simulator Control Room receives the following alarm(s):

FWBP A TRIP (L-3-1) LOSS OF FW PP RUNBACK (K-4-1)

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 15(A)

TIN.C: 0833.5

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 15(A) to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 15(A)

TIME: 0833.5

TO: Simulator Control Room Operator

MESSAGE: The Simulator Control Room receives the following alarm(s):

RPS CHANNEL A TRIP (J-5-1)
RPS CHANNEL B TRIP (J-5-2)
RPS CHANNEL C TRIP (J-5-3)
RPS CHANNEL D TRIP (J-5-4)
RX TRIP (J-4-1)
MAIN TURB TRIP (O-3-1)
CRDM BREAKER OPEN (J-5-6)

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 16

TIME: 0834

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 16 to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 16

TIME: 0834

TO: Simulator Control Room Operator

MESSAGE:

Video Monitors indicate that there is steam release continuing through one leaking Safety Valve.

The Simulator Control Room receives the following alarms:

RM-A12 WARNING RM-A12 HIGH RM-A2 GAS WARNING RM-A4 WARNING RM-A4 HIGH

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 16A

TIME: 0839

LOCATION: 119' Intermediate Building

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 16A to the NAO dispatched to pop the leaking safety valve.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 16A

TIME: 0839

TO: NAO dispatched to pop the safety valve

MESSAGE:

Popping the safety valve has no effect.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 16B

TIME: 0840

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Provide the following operations data when requested by an operator:

LETDOWN FLOW = 10 GPM

MAKEUP FLOW = >200 GPM

SEAL INJECTION = 40 GPM

PZR LEVEL = 70 inches slowly trending downward

RM-A12 = Trending Upward rapidly

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 16B

TIME: 0840

TO: N/A

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 17

TIME: 0845

LOCATION: Technical Support Center

CONTROLLER INSTRUCTIONS:

1) Assure a Site Area Emergency is declared based on >200 gpm tube leak. Do not prompt the SAE.

NOTE: Allow sufficient time for leak rate calculations to be performed and for the results to be transmitted to the TSC.

2) Assure an Emergency Repair Team is dispatched to repair the safety valve.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 17

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 18

TIME: 0853

LOCATION: Security Operations Center

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 18 to two randomly selected evacuees and Security Officers.

ADDITIONAL INSTRUCTIONS:

If personnel are monitored at the Security Operations Center assure the following contamination levels are given out:

Evacuee #1 - left arm on shirt = 300 cpm (RM-14)

Evacuee #2 - back of head, neck, and upper back of shirt = 200 cpm

Assure Health Physics in the TSC is notified.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 18

TIME: 0853

<u>TO</u>: Two randomly selected evacuees and the Security Officer in the area of the portal monitor.

MESSAGE:

The Portal Monitor has just alarmed as you stepped through it.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 19

TIME: 0900

LOCATION: 1) TSC 2) Corporate Security

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

- 1) Assure proper decontamination techniques are performed on the contaminated individuals. The TSC shower system should be made operational.
- 2) Call Corporate Security (240-4376) and read the following message:

THIS IS A DRILL. The Citrus County Sheriff's Office has apprehended a suspect who was observed making the bomb threat calls to Florida Power. The calls have been determined to be a hoax. THIS IS A DRILL.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIGLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 19

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 20

TIME: 1010

LOCATION: Intermediate Building at the leaking Safety Valve (MSV-33)

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 20 to the Emergency Repair Team Leader. NOTE: If mock-up is used, the Message Card is not necessary.

ADDITIONAL INSTRUCTIONS:

CONTACT SIMULATOR CONTROLLER (PAX 382) IMMEDIATELY AFTER REPAIR IS COMPLETED (BEFORE REPORTING IT TO THE TSC)!

Assure repair status is reported back to the TSC.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 20

TIME: 1010

TO: Emergency Repair Team Leader

MESSAGE: The repair effort is complete.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 21

TIME: 1012 (or upon ERT exit from Intermediate Building)

LOCATION: Intermediate Building Exit door.

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 21 to an Emergency Repair Team Member.

ADDITIONAL INSTRUCTIONS:

Assure the Simulator Control Room is contacted (ext 3933) with injury information.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 21

TIME: 1012 (or upon exit from Intermediate Building)

TO: ERT Member

MESSAGE:

After feeling hot and light headed, you pass out. Lie on the floor. The Controller will instruct you as to when you will regain consciousness.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 22

TIME: 1015 or upon arrival of Medical Emergency Team (MET)

LOCATION: Injury Scene

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Provide vital signs on the attached Message Card when appropriate.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 22

TIME: 1015 (or after victim survey)

TO: MET member

MESSAGE: Vital Signs to be provided by the Controller as they are monitored.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 22A

TIME: 1030

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Assure request from the State to assist in the Transportation Accident is relayed to the TSC.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 22A

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 23

TIME: 1041

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 23 to a Simulator Control Room Operator.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 23

TIME: 1041

TO: Simulator Control Room Operator

MESSAGE: The Simulator Control Room receives the following alarm(s):

TURB VACUUM PRETRIP (O-3-2) CONDENSER VAC PUMP TROUBLE (N-1-3)

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 24

TIME: 1051 (or upon arrival of operator)

LOCATION: Feedwater Pump area

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 24 to operator sent to Feedwater Pump area.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 24

TIME: 1051

TO: Operator dispatched to Feedwater Pump 2A.

MESSAGE:

You observe a crack in the expansion joint on the "A" Feedwater Pump Turbine exhaust.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 25

TIME: 1055

LOCATION: TSC

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Assure an ERT is dispatched to "A" side Feedwater Pump Turbine expansion joint.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 25

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 26

TIME: 1115

LOCATION: TSC

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 26 to the Emergency Coordinator.

ADDITIONAL INSTRUCTIONS:

ASSURE THE TSC VENTILATION IS IN THE RECIRC (EMERGENCY) MODE PRIOR TO HANDING OUT MESSAGE CARD #26.

Controller will provide symptoms to Repair Team (AHF-62 failure due to blown fuse).

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 26

TIME: 1115

TO: Emergency Coordinator

MESSAGE:

The TSC Ventilation System has just shut down.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 27

TIME: 1136

LOCATION: Feedwater Pump 2A

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 27 to the ERT Leader.

NOTE: If a mock-up is used, Message Card # 27 is not necessary.

ASSURE SIMULATOR CONTROLLER IS NOTIFIED (PAX 382) IMMEDIATELY AFTER REPAIR IS COMPLETED (PRIOR TO REPORTING IT TO THE SIMULATOR CONTROL ROOM).

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 27

TIME: 1136

TO: ERT Leader

MESSAGE:

Repairs to FWP-2A expansion joint are complete.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 28

TIME: CARD DELETED

LOCATION:

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 28

TIME: CARD DELETED

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 29

TIME: 1233

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Call the Simulator Control Room (PAX 380) and report a valve leak in the Cardox System on the 119' Elevation of the Turbine Building.

ADDITIONAL INSTRUCTIONS:

Assure TSC is notified and that a Repair Team is sent to the Cardox Valve to repair leak.

Controller to provide repair information at the scene (using mock-up).

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 29

TIME: 1233

TO: N/A

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 30

TIME: 1400

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Give Message Card No. 30 to the Rad/Met reader in the Simulator Control Room.

ADDITIONAL INSTRUCTIONS:

Assure the Simulator Control Room Operator is notified.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 30

TIME: 1400

TO: Simulator Control Room Rad/Met Reader

MESSAGE:

RM-A12 is responding erratically.

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 31

TIME: 1415

LOCATION: Simulator Control Room

CONTROLLER INSTRUCTIONS:

At the time designated above, perform the following:

Provide RM-A12 repair information to ERT as appropriate.

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 31

TIME: N/A

TO:

MESSAGE:

ADDITIONAL INFORMATION:

November 5, 1992

CONTROLLER INSTRUCTION

NO. 32

TIME: 1445

LOCATION: Simulator Control Room, TSC, EOF

CONTROLLER INSTRUCTIONS:

At the time designated above and after concurrence with the Exercise Manager, perform the following:

Give Message Card No. 32 to SSOD, EC, and EOF Director.

ADDITIONAL INSTRUCTIONS:

FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3 1992 RADIOLOGICAL EMERGENCY RESPONSE PLAN EXERCISE

November 5, 1992

MESSAGE CARD

NO. 32

TIME: 1445

TO: SSOD, EC, and EOF Director

MESSAGE: The Exercise is terminated. Restore all facilities to pre-Exercise status.

ADDITIONAL INFORMATION:

1992 EXERCISE OPS TABLE	0825 REX1				0845	0850	0855	0900	0905	0910
T-COLD WR A DEG F	557				532	512	495	488	480	473
T-COLD WR B DEG F	557			551	533	515	498	491	483	476
T-AVE DEG F	580			551	533	520	520	520	520	520
RC PRES WR A PSIG	2162		1922	2038	1764	1571	1412	1274	1153	1058
STEAM TEMP OUT A DEG F	593		548	552	534	515	501	492	485	477
STEAM TEMP OUT B DEG F	593		548	551	533	515	500	493	486	478
STEAM PRES OUT A PSIG	908		1014	989	800	665	601	552	515	480
STEAM PRES OUT B PSIG	908		1011	985	819	699	619	573	534	498
TURB HOR PRES A PSIA	895	905	1014	990	800	665	601	600	600	600
TURB HOR PRES B PSIA	895	905	1011	986	819	699	619	600	600	600
RC PRES WR B PSIG	2162		1924	2039	1763	1547	1389	1250	1129	1034
PZR LEVEL CMP IN.	221.7			124.5		121.3	113.8	107.1	100.0	106.7
OTSG A SU LEVEL IN.	238.6			51.7	32.8	32.2	33.6	32.2	32.1	32.1
OTSG A OP LEVEL %	89.9			6.2			3.4	3.3	3.2	3.0
OTSG B SU LEVEL IN.	238.8		32.9						32.2	
OTSG B OP LEVEL %	89.9		5.3		4.7		3.1	3.2	3.0	2.8
RC FLOW A CM MLB/HR	72.5						32.0	32.0	32.2	32.4
RC FLOW B CM MLB/HR	73.2		73.3			80.1	80.1	80.1	80.1	80.1
	1.6E-03							1.1E-03		6.5E-04
	1.6E-03				2.1E-02			6.8E-03		5.2E-03
MAKEUP FLOW GPM	27		0.02.03	0	0	0	0	0.02-03		20
LETDOWN FLOW GPM	61		0	0		0		0	0	0
BWST LEVEL FT	45.8		45.6		45.1			44.4	44.2	44.1
MAKEUP TANK LEVEL IN.	71.4	67.7	79.3	85.3		84.9	86.0	87.7	88.0	83.1
OTSG WR A LEVEL IN.	299.8	279.0	43.2	50.3	40.0	40.0	40.0	40.0	40.0	40.0
OTSG WR B LEVEL IN.	300.8	278.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
TURB BYPASS VLV A POS %	0.0	0.0	14.6	14.7	28.2	30.8	20.9	24.0	24.0	
TURB BYPASS VLV B POS %	0.0	0.0	12.6	9.3		26.1	16.3	19.1	19.1	19.1
T-HOT (X) IMOO8H	611	606	559	553	534	515	499	490	483	475
RC PRES WR A PSIG	2162	2159	1927	2039	1759	1565	1410	1270	1150	1054
RC PRES WR B PSIG	2162	2159	1927	2039	1759	1543	1387	1248	1127	1032
T-HOT WR (RECORDED)	602	600	557	551		515	499	491	484	476
SATURATION MARGIN DEG F	45.7		74.7	87.9	85.6	86.0	88.4	82.0	76.8	73.4
PZR TEMPERATURE DEG F	648	648	630	629	621	605	591	578	565	554
FEEDWATER TEMP A DEG F	456		392						304	300
FEEDWATER TEMP B DEG F	456					312		297	292	
EFP-1 TO B OTSG	0						0	0	0	287
EFP-1 TO A OTSG	0			0			0	0	0	0
EFP-2 TO B OTSG	0							0	0	0
EFP-2 TO A OTSG	0				0	0	0	0	0	0
SRC RANGE NI-1 CPS (LOG)	-			5.17284						
SRC RANGE N1-2 CPS (LOG)							1.22723			1.11669
	-4.25841					-11	-11	-11		-11
	-4.24936							-11		-11
OTSG A RC TEMP DIFF				45.0				45.0	45.0	
OTSG B RC TEMP DIFF	45.6			45.6				45.6	45.6	45.6
OTSG A RC TEMP DIFF	45	43	1			8		31	39	45.6
OTSG B RC TEMP DIFF	45	44	1		. 1	5		29	37	45
EFT LEVEL FT	34.8	34.8		34.8			34.8	34.8	34.8	34.8
CONDENSER VAC IN. HG	2.9	2.8	1.5			1.8	1.6	1.7	1.7	1.7
	5325.0			8.7	122.0	99.6	9.8	41.0	39.4	34.4
MAIN FW FLOW B KLB/HR	5343.4			87.3	170.7	160.2		99.8		
The same of the second	217217	4016.7	110.0	507 130	11.04	100.1	84.6	77.0	93.2	90.1

1992 EXERCISE OPS TABLE	0825	0830	0835	0840	0845	0850	0855	0900	0905	0910
	REX1	2	3	4	5	6	7	8	9	10
EFIC SG B LR LEVEL IN.	150.0	150.0	29.3	30.7	29.7	30.1	31.2	31.4	31.5	31.6
EFIC SG B HI LEVEL %	90.0	80.7	0.3	0.2	1.0	1.0	0.4	0.7	0.7	0.8
EFIC SG A LR LEVEL IN.	150.0	150.0	37.4	53.9	29.5	30.0	32.8	30.9	31.4	31.4
EFIC SG A HI LEVEL %	90.0	80.5	0.6	1.4	1.1	1.4	0.7	1.0	1.0	1.0
HPI FLOW MUV-25 GPM	0	0	. 0	0	0	0	0	0	0	0
HPI FLOW MUV-23 GPM	0	0	269	0	287	202	215	0	0	0
HPI FLOW MUV-26 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-24 GPM	0	0	259	293	292	204	216	262	330	228
DH FLOW & PMP GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW B PMP GPM	0	0	0	0	0	0	0	0	0	0

1992 EXERCISE OPS TABLE	0915		0925	0930	0935		0945	0950	0955	1000
a maria taka 1	11		13	14	15	16	17	18	19	20
T-COLD WR A DEG F	465	459	451	halala	439	429	424	417	412	406
T-COLD WR B DEG F	469	462	455	447	441	432	425	418	412	406
T-AVE DEG F	520	520	520	520	520	520	520	520	520	520
RC PRES WR A PSIG	967	889	817	756	685	634	587	548	515	486
STEAM TEMP OUT A DEG F	470	464	457	450	443	434	427	420	414	408
STEAM TEMP OUT B DEG F	471	465	457	450	444	435	422	414	407	398
STEAM PRES OUT A PSIG	447	416	385	358	328	300	317	293	274	257
STEAM PRES OUT B PSIG	464	433	399	370	343	311	268	248	232	216
TURB HOR PRES A PSIA	600	600	600	600	600	600	600	600	600	600
TURB HDR PRES B PSIA	600	600	600	600	600	600	600	600	600	600
	943	866	794	732	661	610	563	525	491	461
PZR LEVEL CMP IN.	106.7	111.8	112.7	120.6	98.4	109.9	107.8	108.7	108.6	108.5
OTSG A SU LEVEL IN.	32.1	32.2	32.2	32.5	31.9	32.0	57.1	82.9	102.3	119.5
OTSG A OP LEVEL %	3.0	3.0	2.9	2.8	3.1	2.9	2.1	3.0	6.9	7.5
OTSG B SU LEVEL IN.	32.2	32.2	32.3	32.2	32.2	32.3	32.2	32.3	32.3	32.3
OTSG B OP LEVEL %	2.8	2.8	2.8	2.7	2.8	2.7	4.9	4.8	4.7	4.9
RC FLOW A CM MLB/HR	32.6	32.9	33.1	33.4	33.6		34.7	34.9	35.0	35.2
RC FLOW B CM MLB/HR	80.1		80.1	80.1	80.1		80.1	80.1	80.1	80.1
	8.0E-04					9.4E-04	2.5E-05	2.6E-05	2.7E-05	2.8E-05
	5.1E-03		6.5E-03	5.8E-03	6.8E-03	5.6F-03	3.3E-02	2.88-02	2.5E-02	2.6E-02
	68	21	21	22	170	200	199	190	175	171
LETDOWN FLOW GPM	0	0	0	0	0	0	0	0	0	0
BWST LEVEL FT	43.9	43.7	43.6	43.4	43.3			42.9	42.8	42.7
MAKEUP TANK LEVEL IN.	82.9	83.1	83.2	83.1	85.0	83.0	84.4	84.3	84.5	84.6
OTSG WR A LEVEL IN.	40.0	40.0	40.0	40.0	40.0	40.0	50.0	65.1	77.0	88.0
OTSG WR B LEVEL IN.	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
TURB BYPASS VLV A POS %	25.2	27.0	27.8	27.8	32.8	31.8	0.0	0.0	0.0	0.0
TURB BYPASS VLV B POS %	20.3	22.9	24.6	24.6	27.3	28.1	100.0	100.0	100.0	100.0
T-HOT (X) IM008H	468	462	454	448	440	432	425	421	415	409
RC PRES WR A PSIG	965	887	816	754	683	633	585	547	515	485
RC PRES WR B PSIG	942	863	793	730	659	609	562	524	491	461
T-HOT WR (RECORDED)	469	463	455	448	441	432	427	420	414	408
SATURATION MARGIN DEG F	69.3	65.9	63.5	61.9	57.0	57.6	54.2	54.1	53.1	52.5
PZR TEMPERATURE DEG F	544	534	524	515	505	496	488	481	475	469
FEEDWATER TEMP A DEG F	296	292	286	281	274	266	265	263	262	261
FEEDWATER TEMP B DEG F	282	277	271	264		252	242	234	229	224
EFP-1 TO B OTSG	0	0	0	0	0	0	0	0	0	0
EFP-1 TO A OTSG	0	0	0	0	0	0	0	0	0	0
EFP-2 TO B OTSG	0	0	0	0	0	0	0	0	0	0
EFP-2 TO A OTSG	0	0	0	0	0	0	0	0	0	0
SRC RANGE NI-1 CPS (LOG)			1.0526	1.02056	0.99771	0.96191	0.94187	0.91403	0.89063	0.86793
SRC RANGE NI-2 CPS (LOG)		1.05492	1.02079	0.98857	0.96555	0.92963	0.90792	0.88003	0.85656	0.83377
INT RANGE NI-3 AMP	-11	-11	-11	-11	-11	-11	-11	-11	+11	-11
INT RANGE NI-4 AMP	-11	+11	-11	-11	-11	-11	-11	-11	-11	-11
OTSG A RC TEMP DIFF	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
OTSG B RC TEMP DIFF	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
OTSG A RC TEMP DIFF	53	60	68	75	81	90	93	101	106	112
OTSG B RC TEMP DIFF	51	58	66	73	80	89	95	102	108	114
EFT LEVEL FT	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
CONDENSER VAC IN. HG	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7
MAIN FW FLOW A KLB/HR	37.8	47.3	38.9	38.8	61.1	37.5	7.3	7.0	7.3	7.3
MAIN FW FLOW B KLB/HR	89.9	98.4	97.7	92.8	98.8	91.2	217.0	197.2	187.2	190.0

1992 EXERCISE OPS TABLE	0915	0920	0925	0930	0935	0940	0945	0950	0955	1000
	11	12	13	14	15	16	17	18	19	20
EFIC SG B LR LEVEL IN.	31.6	31.5	31.5	31.5	31.3	31.5	28.2	28.3	28.2	27.9
EFIC SG B HI LEVEL %	0.8	1.0	1.2	1.2	1.4	1.4	3.9	3.8	3.9	4.1
EFIC SG A LR LEVEL IN.	31.5	30.9	31.2	31.5	30.6	30.7	62.3	90.6	107.0	120.6
EFIC SG A HI LEVEL %	1.1	1.3	1.4	1.4	1.8	1.7	0.8	1.9	5.8	6.6
HPI FLOW MUV-25 GPM	0	0	0	0	0	0	0	0	0	0
HP1 FLOW MUV-23 GPM	0	0	0	0	0	0	0	0	0	0
HP1 FLOW MUV-26 GPM	0	0	0	0	0	0	0	0	0	0
HP1 FLOW MUV-24 GPM	216	240	245	249	0	0	0	0	0	0
DH FLOW A PMP GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW B PMP GPM	0	0	0	0	0	0	0	0	0	0

1992 EXERCISE OPS TABLE	1005	1010	1015		1025		1035			1050
	21	22	23	24	25	26		28	29	30
T-COLD WR A DEG F	401	394	386	382	376	373	370	367	365	361
T-COLD WR B DEG F	401	396	390	385	380	376	373	370	367	364
T-AVE DEG F	520	520	520	520	520	520	520	520	520	520
RC PRES WR A PSIG	465	450	447	442	437	430	423	417	411	403
STEAM TEMP OUT A DEG F	403	398	391	386	382	377	374	370	368	359
STEAM TEMP OUT B DEG F	390	385	378	373	369	365	362	359	357	354
STEAM PRES OUT A PSIG	241	227	208	196	186	174	167	160	155	137
STEAM PRES OUT B PSIG	201	191	177	166	157	149	142	138	133	128
TURB HOR PRES A PSIA	600	600	600	600	600	600	600	600	600	600
TURB HDR PRES B PS1A	600	600	600	600	600	600	600	600	600	600
RC PRES WR B PSIG	441	415	411	406	401	394	387	380	374	367
PZR LEVEL CMP IN.	108.6	97.8	102.6	103.1	104.2	110.0	109.3	109.4	109.3	108.0
OTSG A SU LEVEL IN.	136.5	152.7	169.8	187.2	205.1	223.0	241.0	250.0	250.0	250.0
OTSG A OP LEVEL %	9.0	10.7	13.9	19.2	28.1	37.3	46.5	61.1	69.6	72.1
OTSG B SU LEVEL IN.	31.7	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
OTSG B OP LEVEL %	4.8	4.8	4.7	4.7		4.6		4.6	4.3	4.3
RC FLOW A CM MLB/HR	35.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
RC FLOW B CM MLB/HR	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
	8.8E-06			7.1E-06		8.0E-06	8.4E-06	8.8E-06		9.5E-06
	2.6E-02		1.9E-02	1.7E-02	1.5E-02		1.3E-02		1.1E-02	
MAKEUP FLOW GPM	160	181	198	164	200	158	149	145	141	192
LETDOWN FLOW GPM	0	0	. 0	0	0		0	0		0
BWST LEVEL FT	42.6	42.5	42.3	42.2	42.1		41.9		41.7	
MAKEUP TANK LEVEL IN.	84.8	85.0	84.4	84.9	84.7		85.2	85.3	85.4	85.2
OTSG WR A LEVEL IN.	99.2	110.4	122.5	135.2	148.7		177.7		198.5	211.2
OTSG WR B LEVEL IN.	40.0	40.0	40.0		40.0	40.0	40.0	40.0	40.0	40.0
TURB BYPASS VLV A POS %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9
TURB BYPASS VLV B POS %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
T-HOT (X) 1M00HH	402	398	392	387	381	376	375	371	370	366
RC PRES WR A PSIG	465	450	447	442	437	430	423	417	410	403
RC PRES WR B PSIG	440	414	411	406	401	394	387	381	374	367
T-HOT WR (RECORDED)	403	396	390	384	380	376	372	369	367	361
SATURATION MARGIN DEG F	53.7	52.2	58.0	62.2	65.4	68.2	70.0	71.4	72.2	73.9
PZR TEMPERATURE DEG F	464	461	460	459	458	456	455	454	452	451
FEEDWATER TEMP A DEG F	260	260	259	258				254	253	252
FEEDWATER TEMP B DEG F	222	219	218	217	216	216	216	215	215	215
EFP-1 TO B OTSG	0	0	0	0	. 0	0	0	0	0	0
EFP-1 TO A OTSG	0	0	0	0	0	0	0	0	0	0
EFP-2 TO B OTSG	0	0	0	0	0	0	0	0	0	0
EFP-2 TO A OTSG	0	. 0	0	0	0	0	0	0	0	0
SRC RANGE NI-1 CPS (LOG)			0.80209	0.78115			0.73229	0.71966	0.70903	0.69574
SRC RANGE NI-2 CPS (LOG)		0.79315	0.76822	0.74724	0.72943	0.7122	0.6982	0.68553	0.67487	0.66152
INT RANGE NI-3 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
INT RANGE NI-4 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
OTSG A RC TEMP DIFF	45.0	45.0	45.0	45.0		45.0	45.0	45.0	45.0	45.0
OTSG B RC TEMP DIFF	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
OTSG A RC TEMP DIFF	117	123	129	135	139	143	147	150	152	155
OTSG B RC TEMP DIFF	119	124	130	135	140	144	147	150	153	156
EFT LEVEL FT	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
CONDENSER VAC IN. HG	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	4.0	5.3
MAIN FW FLOW A KLB/HR	4.0	3.1	3.4	3.4	3.4	3.7	4.0	4.0	4.0	4.0
MAIN FW FLOW B KLB/HR	193.0	176.9	163.1	154.3	146.9	139.7	134.7	125.0	121.2	115.3

1992 EXERCISE OPS TABLE	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050
	21	22	23	24	25	26	27	28	29	30
EFIC SG B LR LEVEL IN.	27.4	27.9	27.9	28.0	28.0	28.0	28.0	28.2	28.3	28.3
EFIC SG B HI LEVEL %	4.1	4.1	4.1	4.0	4.0	4.0	4.0	3.8	3.8	3.8
EFIC SG A LR LEVEL IN.	133.7	146.3	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
EFIC SG A HI LEVEL %	8.2	10.0	13.3	18.9	27.8	37.0	46.4	61.1	69.5	71.5
HPI FLOW MUV-25 GPM	0	0	0	0	0	0	0	0	0	0
HP1 FLOW MUV-23 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-26 GPM	0	. 0	0	0	0	0	0	0	0	0
HPI FLOW MUV-24 GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW A PMP GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW B PMP GPM	0	0	0	0	0	0	0	0	0	0

1992 EXERCISE OPS TABLE	1055									
	31		33							
T-COLD WR A DEG F	355	347	347				325	327		322
T-COLD WR B DEG F	357		347	200			332	329	326	324
T-AVE DEG F	520	520	520	520	520		520	520	520	520
RC PRES WR A PSIG	396	372	359	353			306	239	234	231
STEAM TEMP OUT A DEG F	352	345	342	336	333		325	324	321	319
STEAM TEMP OUT B DEG F	348	341	338	333	329		323	320	318	315
STEAM PRES OUT A PSIG	124	111	108	97	93		82	80	77	74
STEAM PRES OUT B PSIG	117	106	100	94	87		80	75	73	70
TURB HDR PRES A PSIA	600	600	600	600	600	600	600	600	600	600
TURB HOR PRES B PSIA	600	600	600	600	600	600	600	600	600	600
RC PRES WR B PSIG	360	335	321	316	273	265	268	202	197	195
PZR LEVEL CMP IN.	109.3	126.5	97.7	107.3	111.6		120.2	125.6	133.8	130.7
OTSG A SU LEVEL IN.	250.0	250.0	250.0	250.0		250.0	250.0	250.0	250.0	250.0
OTSG A OP LEVEL %	70.6	69.6	68.8	68.4	68.6	68.9	69.3	69.8	70.2	70.4
OTSG B SU LEVEL IN.	32.3	32.6	32.1	33.4	32.1		30.7	31.4	32.7	30.9
OTSG B OP LEVEL %	4.2	4.2	4.1	4.1		4.1	3.7	4.1	3.8	3.7
RC FLOW A CM MLB/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RC FLOW B CM MLB/HR	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
SU FW FLOW A KLB/HR		1.1E-05			1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05	1.2E-05
	8.3E-03		6.8E-03	5.7E-03	5.2E-03	8.2E-03	3.6E-03	6.4E-03	3.7E-03	7.0E-03
MAKEUP FLOW GPM	188	196	32	200	128	32	200	156	113	107
LETDOWN FLOW GPM	0	0	0	0	0	0	0	0	0	0
BWST LEVEL FT	41.5	41.3	41.3	41.2	41.1		40.9	40.8	40.7	40.6
MAKEUP TANK LEVEL IN.	84.9	83.7	85.7	82.5	85.4	85.7	80.8	85.4	85.5	85.7
OTSG WR A LEVEL IN.	209.8	210.2	208.7	205.6	206.5	206.9	207.0	209.0	209.5	210.3
OTSG WR B LEVEL IN.	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
TURB BYPASS VLV A POS %	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
TURB BYPASS VLV B POS %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
T-HOT (X) IMOOBH	358	353	349	343	338	336	332	330	327	325
RC PRES WR A PSIG	396	371	358	352	310	302	305	239	234	232
RC PRES WR B PSIG	360	335	321	315	272	264	268	202	197	194
T-HOT WR (RECORDED)	354	347	344	338	335	333	327	326	323	321
SATURATION MARGIN DEG F	78.8	78.5	78.7	81.6	73.1	73.1	77.8	57.1	58.0	58.6
PZR TEMPERATURE DEG F	449	443	440	429	427	424	409	405	404	402
FEEDWATER TEMP A DEG F	251	250	249	248	246	245	244	243	242	241
PEEDWATER TEMP B DEG F	215	214	213	213	212	211	211	210	211	211
EFP-1 TO B OTSG	0	0	0	0	0	0	0	0	0	0
EFP-1 TO A OTSG	0	0	0	0	0	0	0	0	0	0
EFP-2 TO B OTSG	0	0	0	0	0	0	0	0	0	0
EFP-2 TO A OTSG	0	. 0	0	0	0	0	0	0	0	0
SRC RANGE NI-1 CPS (LOG)						0.5963	0.58027	0.57149	0.56092	0.55337
SRC RANGE NI-2 CPS (LOG)			0.60251	0.5852	0.56961	0.56167	0.54557	0.53677	0.52617	0.51862
INT RANGE N1-3 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
INT RANGE NI-4 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
OTSG A RC TEMP DIFF	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
OTSG B RC TEMP DIFF	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
OTSG A RC TEMP DIFF	162	168	173	177	182	184	187	191	194	196
OTSG B RC TEMP DIFF	162	169	173	177	182	185	188	192	194	196
EFT LEVEL FT	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
CONDENSER VAC IN. HG	6.4	7.3	8.0	8.6	9.0	9.4	9.7	9.8	10.0	9.0
MAIN FW FLOW A KLB/HR	4.2	4.4	4.4	4.5	4.5	4.7	4.7	4.7	4.7	4.7
MAIN FW FLOW B KLB/HR	107.6	98.9	97.0	84.9	59.6	82.7	94.4	92.3	17.1	112.8

1992 EXERCISE OPS TABLE	1055	1100	1105	1110	1115	1120	1125	1130	1135	1140
	31	32	33	34	35	36	37	38	39	40
EFIC SG B LR LEVEL IN.	28.3	27.7	26.9	28.4	29.8	28.7	27.3	28.4	28.0	27.3
EFIC SG B HI LEVEL %	3.7	3.8	3.7	3.7	3.7	4.0	3.6	3.7	3.3	3.5
EFIC SG A LR LEVEL IN.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
EFIC SG A HI LEVEL %	70.6	69.3	69.1	68.4	68.8	68.5	69.1	70.0	69.9	70.5
HP1 FLOW MUV-25 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-23 GPM	0	0	0	0	0	0	0	0	0	0
HP1 FLOW MUV-26 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-24 GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW A PMP GPM	0	0	0	C	0	0	0	0	0	0
DH FLOW B PMP GPM	0	0	0	0	0	0	0	0	0	0

1992 EXERCISE OPS TABLE	1145		1155			1210	1215		1225	1230
	41		43	44		46	47	48	49	50
T-COLD WR A DEG F	320	318	315	313		309	307	305	303	301
T-COLD WR B DEG F	322	319	317	315		310	308	306	305	303
T-AVE DEG F	520	520	520	520		520	520	520	520	520
RC PRES WR A PSIG	242	252	247	241		281	296	286	279	282
STEAM TEMP OUT A DEG F	317	314	312	309		305	303	301	299	298
STEAM TEMP OUT B DEG F	313	311	309	307		302	300	299	297	295
STEAM PRES OUT A PSIG	71	68	65	63		58	56	54	52	50
STEAM PRES OUT B PSIG	68	65	62	60		55	53	52	50	48
TURB HOR PRES A PSIA	600	600	600	600		600	600	600	600	600
TURB HOR PRES B PSIA	600	600	600	600		600	600	600	600	600
RC PRES WR B PSIG	204	215	212	202		243	258	248	241	244
PZR LEVEL CMP IN.	130.8	131.0	131.1	129.4		129.4	129.6	129.7	129.6	129.6
OTSG A SU LEVEL IN.	250.0	250.0	250.0			250.0	250.0	250.0	250.0	250.0
OTSG A OP LEVEL %	70.7	69.7	69.7	69.6		69.4	71.4	72.4	73.7	74.7
OTSG B SU LEVEL IN.	31.8	32.1	31.2	29.6		32.1	31.2		31.9	
OTSG B OP LEVEL %	3.8	3.9	3.6	3.9			3.7			3.6
RC FLOW A CM MLB/HR	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
RC FLOW B CM MLB/HR	80.1	80.1	80.1	80.1		80.1	80.1	80.1	80.1	80.1
SU FW FLOW A KLB/HR					1.3E-05		1.3E-05	1.4E-05		1.4E-05
SU FW FLOW B KLB/HR		2.6E-03			1.6E-03		3.2E-03	5.9E-04	1.1E-03	1.9E-03
MAKEUP FLOW GPM	114		117	118		128	133	129	127	129
LETDOWN FLOW GPM	0		0	0			0	0	0	0
BWST LEVEL FT	40.5	40.4	40.4	40.3			40.0	39.9		39.7
MAKEUP TANK LEVEL IN.	85.7	85.8	85.8	85.9		86.0	85.9	86.0	86.1	86.1
OTSG WR A LEVEL IN.	212.4	210.9	210.1			210.3	212.9	215.2	217.6	220.6
OTSG WR B LEVEL IN.	40.0	40.0	40.0	40.0		40.0	40.0	40.0	40.0	40.0
TURB BYPASS VLV A POS %	62.8	62.8	62.8	62.8		62.8	62.8	62.8	81.1	81.1
TURB BYPASS VLV B POS %	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0
T-HOT (X) IM008H	323	321	319	315		311	309	308	305	303
RC PRES WR A PSIG	242	252	246	241		282	296	286	279	282
RC PRES WR B PS1G	205	214	208	205	224	244	258	248	241	244
T-HOT WR (RECORDED)	318	316	314	311		307	305	303	301	300
SATURATION MARGIN DEG F	65.0	72.0	71.7	72.0		91.6	98.1	96.9	96.3	99.1
PZR TEMPERATURE DEG F	405	409	407	405	412	418	423	420	417	418
FEEDWATER TEMP A DEG F	239	238	237	236		234	233	232	231	230
FEEDWATER TEMP B DEG F	211	212	212	212	212	212	212	212	212	212
EFP-1 TO B OTSG	0	0	0	0		0	0	0	0	0
EFP-1 TO A OTSG	0	. 0	0	0		0	0	0	0	0
EFP-2 TO B OTSG	0	- 0	0	0		0	0	0	0	0
EFP-2 TO A OTSG	0	0	0	0	0	0	0	0	0	0
SRC RANGE NI-1 CPS (LOG)	0.54504	0.53571	0.52706	0.51833		0.50031	0.49186	0.48514	0.47849	0.47109
SRC RANGE NI-2 CPS (LOG)	0.51026	0.50089	0.49222		0.474425	0.46538	0.45692	0.45019	0.44353	0.43611
INT RANGE NI-3 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
INT RANGE NI-4 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
OTSG A RC TEMP DIFF	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
OTSG B RC TEMP DIFF	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
OTSG A RC TEMP DIFF	198	200	203	205	207	209	212	213	215	217
OTSG B RC TEMP DIFF	198	201	203	206	208	210	212	214	215	217
EFT LEVEL FT	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
CONDENSER VAC IN. HG	7,7	6.5	5.6	4.8	4.4	4.0	3.8	3.6	3.4	3.2
MAIN FW FLOW A KLB/HR	4.7	4.7	4.7	4.7	4.8	4.9	4.9	4.9	4.9	4.9
MAIN FW FLOW B KLB/HR	29.1	75.4	63.7	37.7	46.1	54.6	66.3	67.5	39.3	58.6

EFIC SG B LR LEVEL IN. 28.4 26.9 26.1 28.5 28.1 27.7 26.8 27.6 27.4 27.7 EFIC SG B HI LEVEL % 3.3 3.5 3.4 3.4 3.5 3.6 3.5 3.7 3.4 3.9 EFIC SG A LR LEVEL IN. 150.0	1345	2 EXERCISE	OPS 1	TABL	Ε	1145	1150	1155	1200	1205	1210	1215	1220	1225	1230
EFIC SG B HI LEVEL % 3.3 3.5 3.4 3.4 3.5 3.6 3.5 3.7 3.4 3.5 EFIC SG A LR LEVEL IN. 150.0						41	42	43	44		46	47	48	49	50
EFIC SG A LR LEVEL IN. 150.0 150	EFIC	C SG B LR L	EVEL	IN.		28.4	26.9	26.1	28.5	28.1	27.7	26.8	27.6	27.4	27.7
EFIC SG A HI LEVEL % 70.1 69.9 69.6 69.7 70.0 70.2 71.9 72.7 74.5 74.4 HPI FLOW MUV-25 GPM 0 0 0 0 0 0 0 0 0 0 0 HPI FLOW MUV-23 GPM 0 0 0 0 0 0 0 0 0 0 0	EFIC	C SG B HI LI	EVEL	X.		3.3	3.5	3.4	3.4	3.5	3.6	3.5	3.7	3.4	3.5
HPI FLOW MUV-25 GPM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EFIC	C SG A LR L	EVEL	IN.		150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
HP1 FLOW MUV-23 GPM 0 0 0 0 0 0 0 0 0	EFIC	C SG A HI L	EVEL	×		70.1	69.9	69.6	69.7	70.0	70.2	71.9	72.7	74.5	74.9
	HPI	FLOW MUV-2	5 GP	м		0	0	0	0	0	0	0	0	0	0
	HPI	FLOW MUV-2	3 GP	M		0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-26 GPM 0 0 0 0 0 0 0 0 0	HPI	FLOW MUV-2	6 GP	м		.0	0	0	.0	0	0	0	0	0	0
HP1 FLOW MUV-24 GPM 0 0 0 0 0 0 0 0 0 0	HP I	FLOW MUV-2	4 GPF	M		0	0	0	0	0	0	0	0	0	0
DH FLOW A PMP GPM 0 0 0 0 0 0 0 0 0	DH F	FLOW A PMP	GPM			0	0	. 0	0	0	0	0	0	0	0
DH FLOW B PMP GPM 0 0 0 0 0 0 0 0 0	DH F	FLOW B PMP	GPM			0	0	0	0	0	0	0	0	0	0

1992 EXERCISE OPS TABLE	1235	1240	1245		1255	1300	1305	1310		
	51	52	53	54	55	56	57	58	59	60
T-COLD WR A DEG F	300	298	296	295	294	293	292	291	291	290
T-COLD WR B DEG F	301	300	298	297	295	294	293	293	292	291
T-AVE DEG F	520	520	520	520	520	520	520	520	520	520
RC PRES WR A PSIG	285	288	283	284	287	288	277	263	253	256
STEAM TEMP OUT A DEG F	296	294	293	291	290	289	288	237	287	286
STEAM TEMP OUT B DEG F	293	292	290	289	287	286	286	215	284	283
STEAM PRES OUT A PSIG	49	47	46	45	43	42	42	41	41	40
STEAM PRES OUT B PSIG	47	45	44	43	41	40	40	39	39	38
TURB HOR PRES A PSIA	600	600	600	600	600	600	600	600	600	600
TURB HOR PRES B PSIA	600	600	600	600	600	600	600	600	600	600
RC PRES WR B PSIG	246	249	244	245	248	249	236	225	217	217
PZR LEVEL CMP IN.	129.6	129.5	129.7	129.6	129.6	129.6	129.7	129.7	129.6	129.6
OTSG A SU LEVEL IN.	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
OTSG A OP LEVEL %	75.7	76.4	77.1	78.1	78.8	79.4	80.2	80.7	81.1	81.5
OTSG B SU LEVEL IN.	32.8	31.9	29.9	31.5	32.3	30.6	31.6	33.9	31.9	32.8
OTSG 8 OP LEVEL %	3.9	3.6	3.8	3.6	3.9	3.8	3.7	3.6	3.7	3.8
RC FLOW A CM MLB/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RC FLOW B CM MLB/HR	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
SU FW FLOW A KLB/HR	1.4E-05	1.48-05	1.4E-05							
SU FW FLOW B KLB/HR	2.0E-03	1.8E-03	1.5E-03	1.4E-03	2.9E-03	1.4E-03	7.2E-04	1.6E-03	4.8E-04	1.9E-03
MAKEUP FLOW GPM	130	132	127	127	127	127	122	119	115	115
LETDOWN FLOW GPM	0	0	0	0	0	0	0	0	0	0
BWST LEVEL FT	39.6	39.5	39.4	39.3	39.2	39.2	39.1	39.0	38.9	38.8
MAKEUP TANK LEVEL IN.	86.1	86.1	86.2	86.2	86.3	86.3	86.4	86.5	86.5	86.6
OTSG WR A LEVEL IN.	222.2	224.7	226.6	228.1	228.2	229.8	231.6	232.7	233.5	234.5
OTSG WR B LEVEL IN.	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
TURB BYPASS VLV A POS %	81.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TURB BYPASS VLV B POS %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
T-HOT (X) 1M008H	302	300	299	297	296	295	295	294	292	291
RC PRES WR A PSIG	285	288	283	284	287	287	275	263	255	256
RC PRES WR B PSIG	247	250	244	246	248	249	236	225	217	218
T-HOT WR (RECORDED)	298	296	295	293	292	291	290	290	289	288
SATURATION MARGIN DEG F	101.7	104.5	104.0	105.9	108.0	109.4	105.2	101.6	99.2	100.6
PZR TEMPERATURE DEG F	419	420	419	419	419	420	417	413	410	410
FEEDWATER TEMP A DEG F	220						223		221	
FEEDWATER TEMP B DEG F	212	212	212	212		211	211			
EFP-1 TO 8 OTSG	0				0	0	0			211
EFP-1 TO A OTSG	0					0			0	0
EFP-2 TO B OTSG	0		0			0		0	0	
EFP-2 TO A OTSG	0		0	0	0			0		0
SRC RANGE NI-1 CPS (LOG)							0		0	0
SRC RANGE NI-2 CPS (LOG)	0.40373	0.43090	0.43103	0.44012	0.43740	0.43430				
INT RANGE NI-3 AMP	-11	-11					0.39558		0.38873	0.38472
INT RANGE NI-4 AMP	-11		-11	-11	-11	-11	-11	-11	-11	-11
OTSG A RC TEMP DIFF		-11	-11			-11		-11	-11	-11
OTSG B RC TEMP DIFF		45.0		45.0		45.0	45.0	45.0	45.0	45.0
	45.6		45.6		45.6	45.6	45.6	45.6	45.6	45.6
OTSG A RC TEMP DIFF	219	220	222	223	224	226	226	227	228	229
OTSG B RC TEMP DIFF	219	221	222	224	225	226	227	228	228	229
EFT LEVEL FT	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
CONDENSER VAC IN. HG	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.3	2.2
MAIN FW FLOW A KLB/HR	4,9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
MAIN FW FLOW B KLB/HR	53.8	55.0	53.1	41.9	16.2	17.2	62.5	60.1	30.0	16.2

1992 EXERCISE OPS TABLE	1235	1240	1245	1250	1255	1300	1305	1310	1315	1320
	51	52	53	54	55	56	57	58	59	60
EFIC SG B LR LEVEL IN.	27.6	28.7	27.8	27.6	28.2	27.2	27.2	26.9	27.8	27.2
EFIC SG B H! LEVEL %	3.5	3.4	3.5	3.2	3.4	3.4	3.3	3.5	3.2	3.5
EFIC SG A LR LEVEL IN.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
EFIC SG A HI LEVEL %	76.7	76.8	77.4	78.1	78.9	79.9	80.5	81.0	81.4	81.8
HPI FLOW MUV-25 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-23 GPM	0	0	0	0	0	0	0	0	. 0	0
HPI FLOW MUV-26 GPM	0	0	0	0	0	0	0	0	0	0
HP1 FLOW MUV-24 GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW A PMP GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW B PMP GPM	0	0	0	. 0	0	0	0	0	0	0

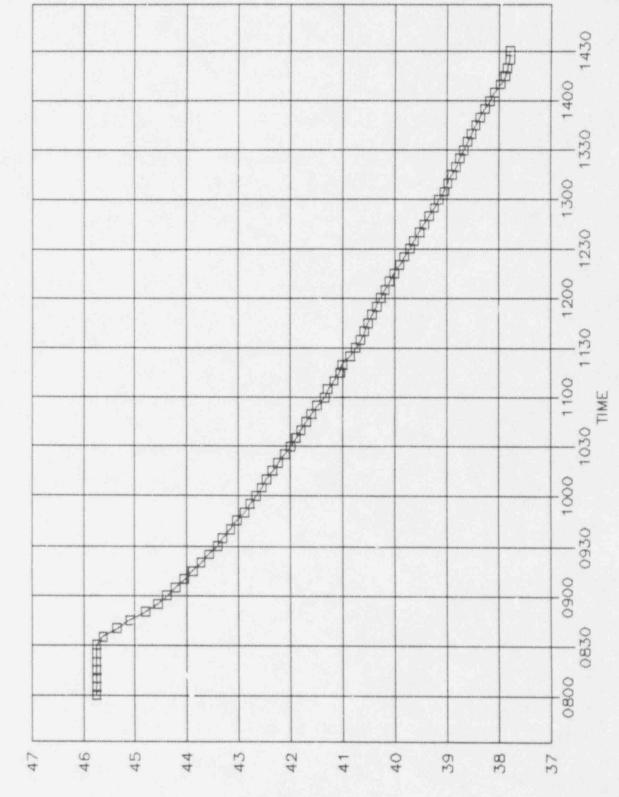
1992 EXERCISE OPS TABLE	1325				1345				The second second	
	61				65	66				
T-COLD WR A DEG F	289	288	288	287	287	285	283	281		272
T-COLD WR B DEG F	290	290	289		288	287	285	282	279	
T-AVE DEG F	520	520	520	520	520	520	520	520	520	520
RC PRES WR A PSIG	259	261	261	251	243	245	247	236	236	248
STEAM TEMP OUT A DEG F	285	285	284	283	283	282	280	277	274	269
STEAM TEMP OUT B DEG F	283	282	281	281	280	279	281	279	284	280
STEAM PRES OUT A PSIG	39	39	38	38	38	37	35	33	30	27
STEAM PRES OUT B PSIG	37	37	36	36	35	34	36		32	28
TURB HOR PRES A PSIA	600	600	600	600	600	600	600	600	600	600
TURB HDR PRES B PSIA	600	600	600	600	600	600	600	600	600	600
RC PRES WR B PSIG	220	222	223	211	204	206	207	203	197	208
PZR LEVEL CMP IN.	129.5	129.6	129.6		129.6	129.3	129.5	129.5	129.6	130.2
OTSG A SU LEVEL IN.	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
OTSG A OP LEVEL %	81.9	82.3	83.0	83.4	83.6	83.2	77.6	71.3	68.7	72.5
OTSG B SU LEVEL IN.	32.8	33.0	31.2	31.7	31.4		133.2	184.8	235.6	250.0
OTSG B OP LEVEL %	3.7	3.5	3.8	3.6	3.5		7.6		37.0	
RC FLOW A CM MLB/HR	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
RC FLOW B CM MLB/HR	80.1		80.1				80.1			80.1
	1.4E-05								1.5E-05	
SU FW FLOW B KLB/HR			1.9E-03		5.3E-03		6.4E-02	6.5E-02	6.5E-02	6.5E-02
MAKEUP FLOW GPM	117	117	117	114	110	123	128	130	130	146
LETDOWN FLOW GPM	0	0	0	0	0		0	0		
BWST LEVEL FT	38.8	38.7	38.6	38.5	38.4	38.4	38.3	38.2	38.1	38.0
MAKEUP TANK LEVEL IN.	86.6	86.7	86.7	86.8	86.9	86.9	86.9	86.9	86.9	86.6
OTSG WR A LEVEL IN.	235.6	236.8	239.0	240.4	241.4	239.3	226.6	213.1	210.4	214.7
OTSG WR B LEVEL IN.	40.0	40.0	40.0	40.0	40.0	56.2	96.4	133.1	172.9	197.2
TURB BYPASS VLV A POS %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TURB BYPASS VLV B POS %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
T-HOT (X) 1M00HH	291	291	289	289	290	287	286	284	280	276
RC PRES WR A PSIG	259	261	261	250	243	245	246	235	236	247
RC PRES WR B PSIG	220	222	223	211	204	206	208	201	197	207
T-HOT WR (RECORDED)	288	287	286	286	285	284	282	279	276	271
	102.2	103.7	105.1	100.6	98.6	100.5	103.3	103.5	104.8	113.8
PZR TEMPERATURE DEG F	411	412	412	409	406	406	407	404	403	402
FEEDWATER TEMP A DEG F	220		218	217	216	216	215	214	214	213
	211		211	211	211		214	215	215	215
EFP-1 TO B OTSG	0	0	0	0	0	0	0	0	0	0
EFP-1 TO A OTSG	0		0			. 0	0	0	0	0
	0		0	0	0	0	0	0	0	0
EFP-2 TO A OTSG	0		0	. 0	0	0	0	0	0	0
SRC RANGE NI-1 CPS (LOG)						0.39833	0.3912	0.38362	0.37481	0.35866
SRC RANGE NI-2 CPS (LOG)	0.38102		0.37378	0.37102	0.36821	0.36328	0.35611	0.34851	0.33966	0.32342
INT RANGE NI-3 AMP	-11	-11	-11	-11	-11	-11	-11	-11	+11	-11
INT RANGE NI-4 AMP	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
OTSG A RC TEMP DIFF	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
OTSG B RC TEMP DIFF		45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
OTSG A RC TEMP DIFF	229	230	231	231	232	233	235	238	241	246
OTSG B RC TEMP DIFF	230	231	231	232	232	234	236	238	241	246
EFT LEVEL FT	34.8		34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
CONDENSER VAC IN, HG	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9
MAIN FW FLOW A KLB/HR	4.9	4.9	4.9	4.9	4.9	4.9	5.1	5.1	5.1	5.1
MAIN FW FLOW B KLB/HR	33.6	39.5	71.8	65.2	75.2	300.8	300.4	298.7	301.9	301.2

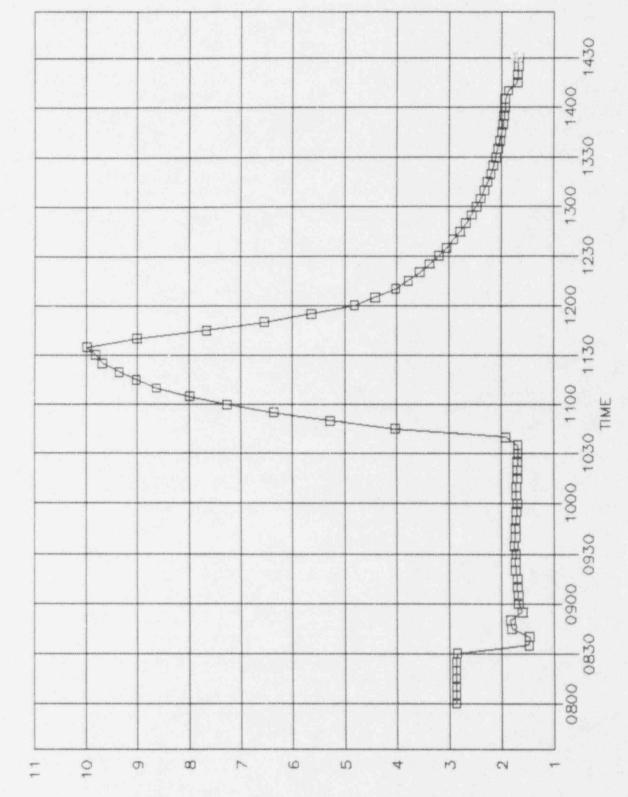
1992 EXERCISE OPS TABLE	1325	1330	1335	1340	1345	1350	1355	1400	1405	1410
	61	62	63	64	65	66	67	68	69	70
EFIC SG B LR LEVEL IN.	27.5	26.4	28.5	28.8	29.5	62.4	125.0	150.0	150.0	150.0
EFIC SG B HI LEVEL %	3.5	3.4	3.7	3.3	3.9	6.4	7.6	15.2	38.1	61.3
EFIC SG A LR LEVEL IN.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
EFIC SG A HI LEVEL %	82.2	82.8	83.2	83.5	83.9	83.1	77.3	70.7	69.2	72.8
HP1 FLOW MUV-25 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-23 GPM	0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-26 GPM	.0	0	0	0	0	0	0	0	0	0
HPI FLOW MUV-24 GPM	0	0	0	0	0	0	0	0	0	0
DH FLOW A PMP GPM	0	0	0	0	0	0	0	0	0	3010
DH FLOW B PMP GPM	0	0	0	0	0	0	0	0	0	0

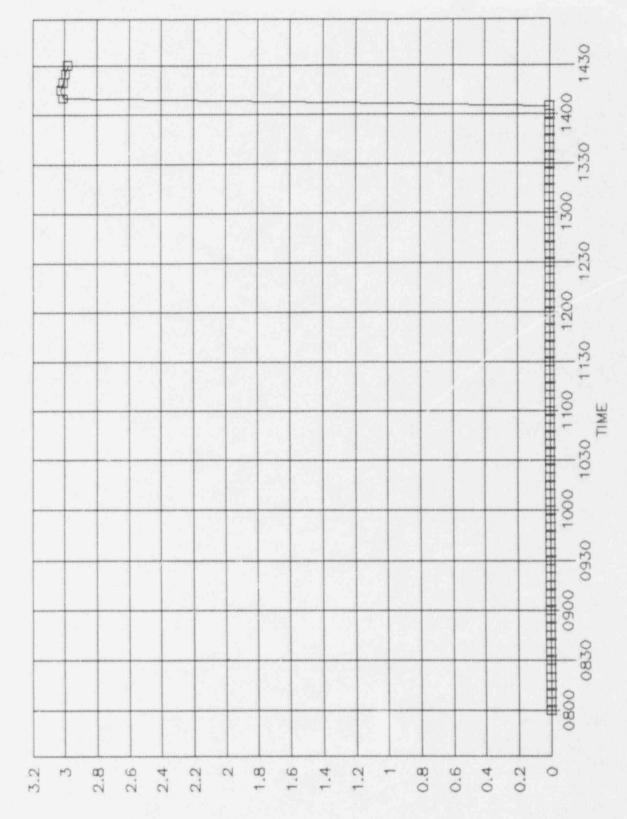
1992 EXERCISE OPS TABLE			
	71		73
T-COLD WR A DEG F	250		
T-COLD WR B DEG F	269		268
T-AVE DEG F	520	520	520
RC PRES WR A PSIG	234	218	202
STEAM TEMP OUT A DEG F	257		249
STEAM TEMP OUT B DEG F	266		
STEAM PRES OUT A PSIG	19	17	16
STEAM PRES OUT 6 PSIG	25		22
TURB HDR PRES A PSIA	600		
TURB HDR PRES B PSIA	600		
RC PRES WR B PSIG	230		
PZR LEVEL CMP IN.		129.9	
OTSG A SU LEVEL IN.		250.0	
OTSG A OP LEVEL %	75.4		
OTSG B SU LEVEL IN.		250.0	
OTSG B OP LEVEL %		58.4	
RC FLOW A CM MLB/HR	0.0		
RC FLOW B CM MLB/HR	8.6		8.5
SU FW FLOW A KLB/HR		1.5E-05	
SU FW FLOW B KLB/HR	1.4E-06		1.4E-06
MAKEUP FLOW GPM	111	130	149
LETDOWN FLOW GPM	. 0	0	
BWST LEVEL FT	37.9	37.8	37.8
MAKEUP TANK LEVEL IN.	86.9		
OTSG WR A LEVEL IN.	230.7		238.8
OTSG WR B LEVEL IN.	198.9	195.2	191.5
TURB BYPASS VLV A POS %	79.5		
TURB BYPASS VLV B POS %	11.4	11.4	11.4
T-HOT (X) 1M008H	288	289	290
RC PRES WR A PSIG	232	214	195
RC PRES WR B PSIG	232	213	195
T-HOT WR (RECORDED)	269		
SATURATION MARGIN DEG F		112.1	103.7
PZR TEMPERATURE DEG F	402	396	391
FEEDWATER TEMP A DEG F	212	212	212
FEEDWATER TEMP B DEG F	215	215	214
EFP-1 TO B OTSG	0	0	0
EFP-1 TO A OTSG	0	0	0
EFP-2 TO B OTSG	0	0	0
EFP-2 TO A OTSG	0		0
SRC RANGE NI-1 CPS (LOG)		0.335715	0.3187
SRC RANGE N1-2 CPS (LOG)	0.31748	0.30024	0.283
INT RANGE N1-3 AMP	-11	-11	-11
INT RANGE NI-4 AMP	-11	-11	-11
OTSG A RC TEMP DIFF	45.0	45	45.0
OTSG B RC TEMP DIFF	45.6	46	45.6
OTSG A RC TEMP DIFF	251	256	261
OTSG B RC TEMP DIFF	251	252	253
EFT LEVEL FT	34.8	34.8	34.8
CONDENSER VAC IN. HG	1.7	1.7	1.7
MAIN FW FLOW A KLB/HR	5.1	5.2	5.3
MAIN FW FLOW B KLB/HR	2.0	2.0	2.0

1420 1425
1420 1423
73
150.0 150.0
58.2 54.2
50.0 150.0
78.0 79.5
0 0
0 0
0 0
0 0
3011 2996
0 0



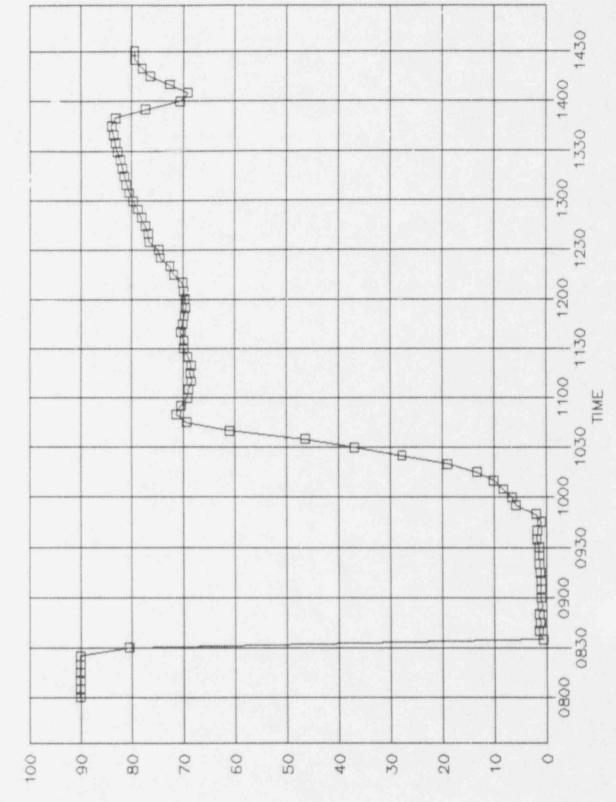




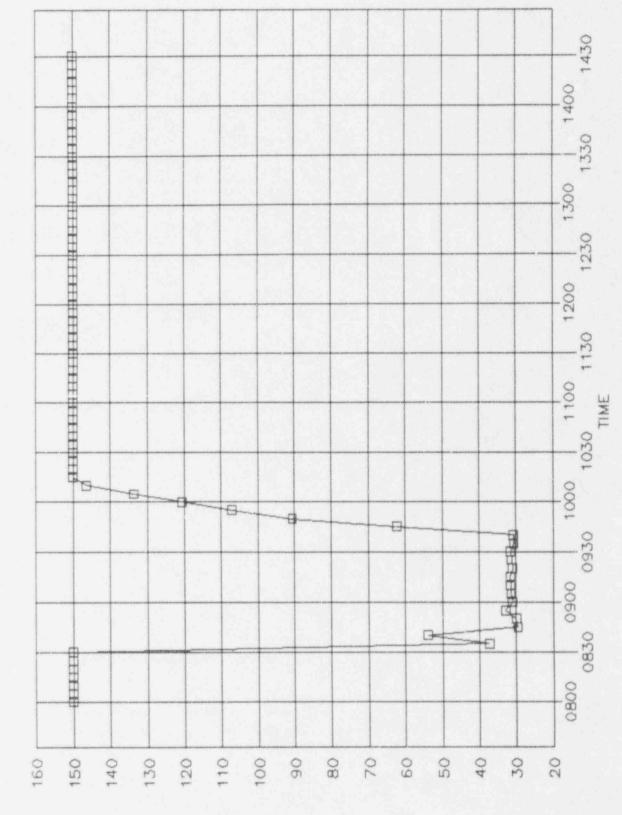


(Thousands)

EFIC SG A HI LEVEL



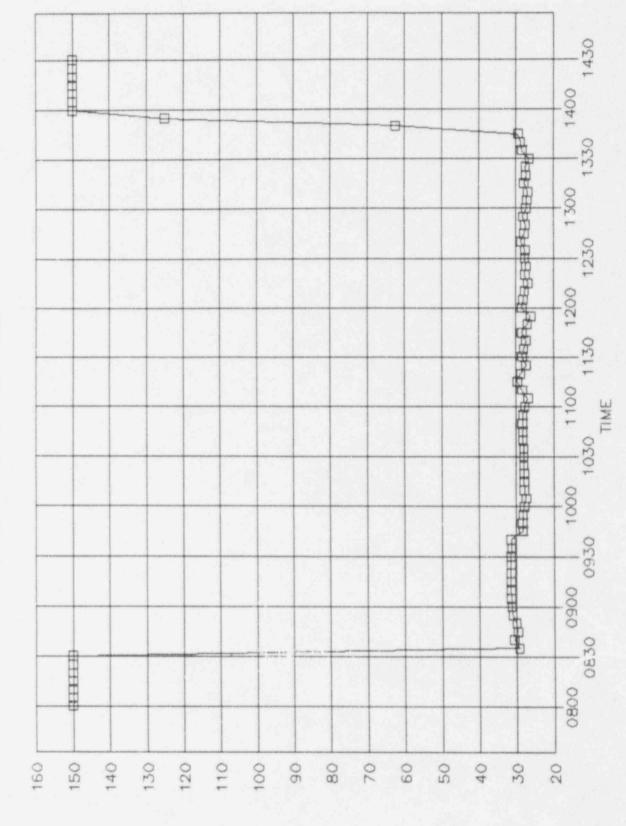
EFIC SG A LR LEVEL

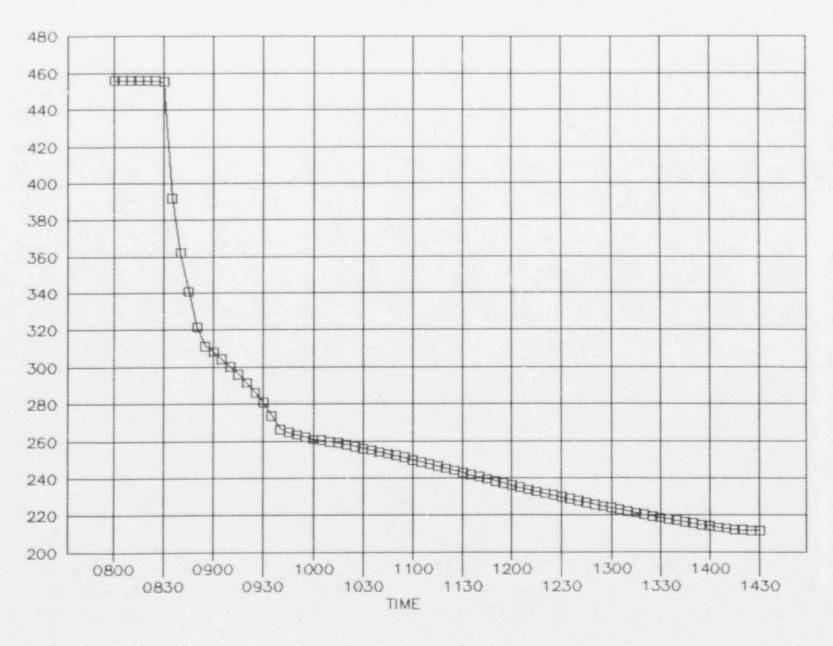


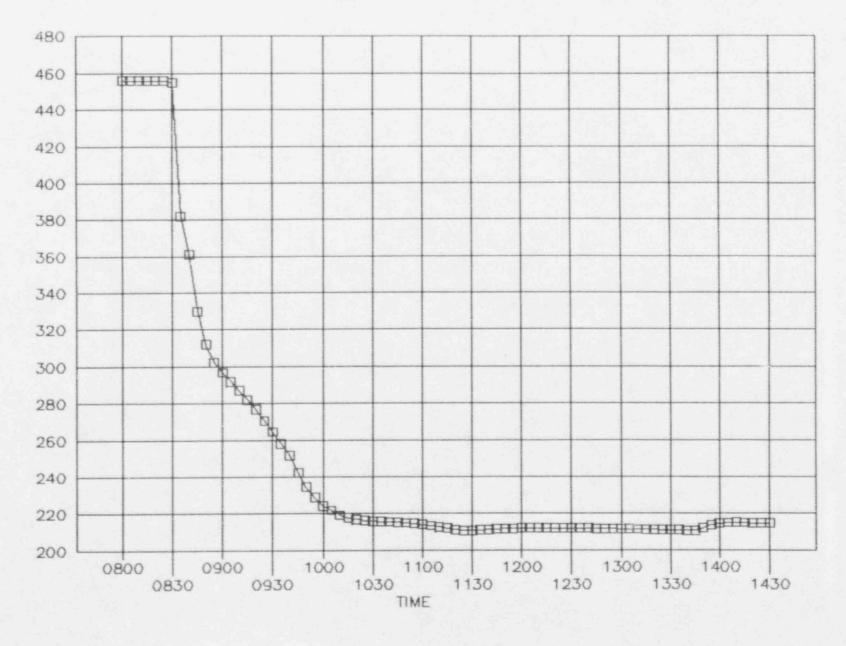
EFIC SG B HI LEVEL H++++

PERCENT

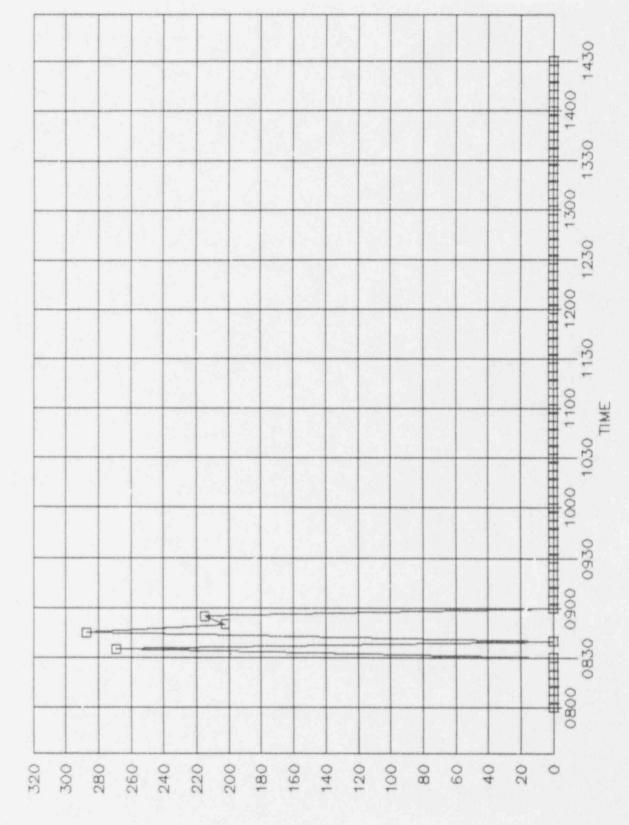
EFIC SG B LR LEVEL

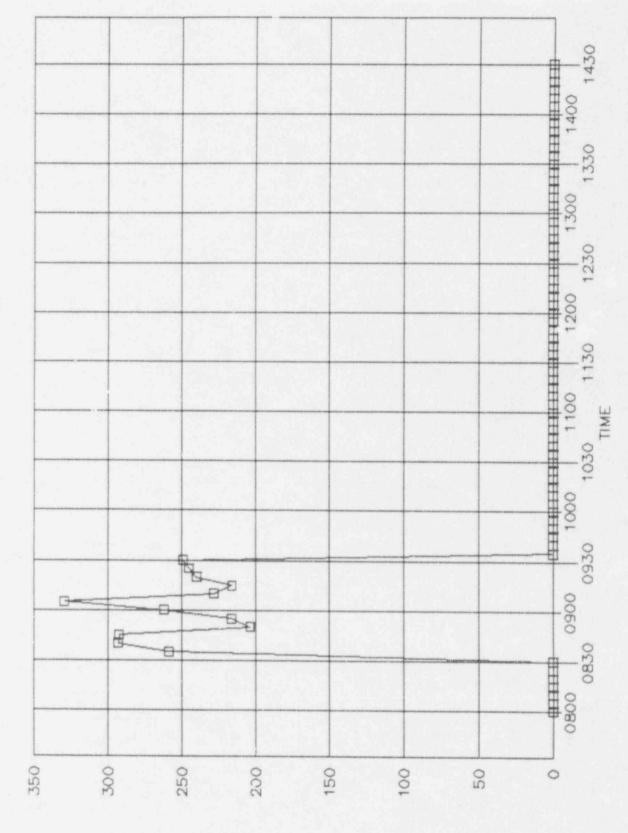




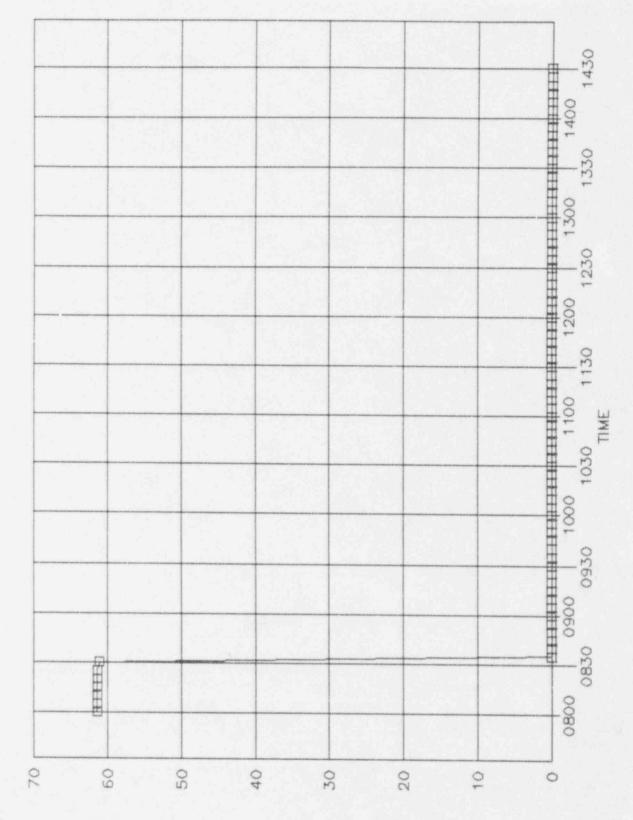


DEG

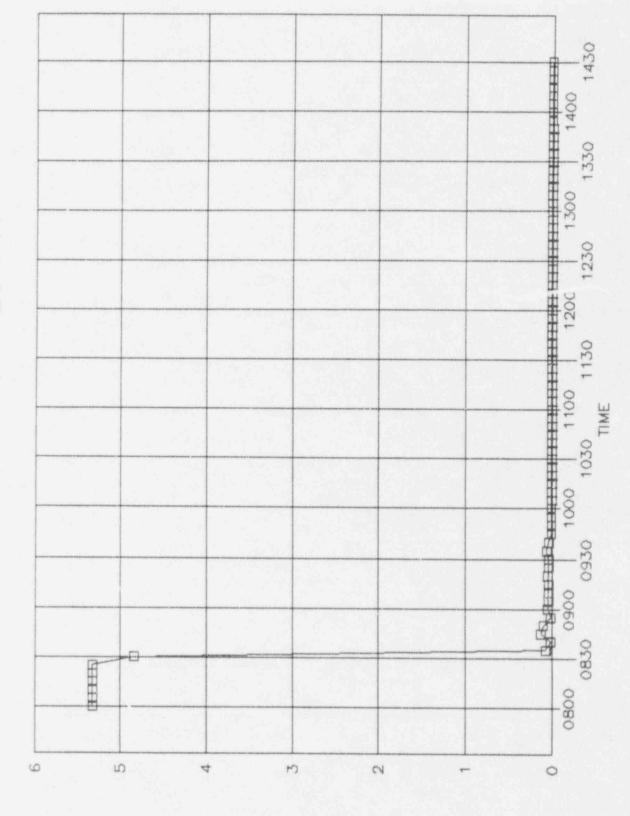




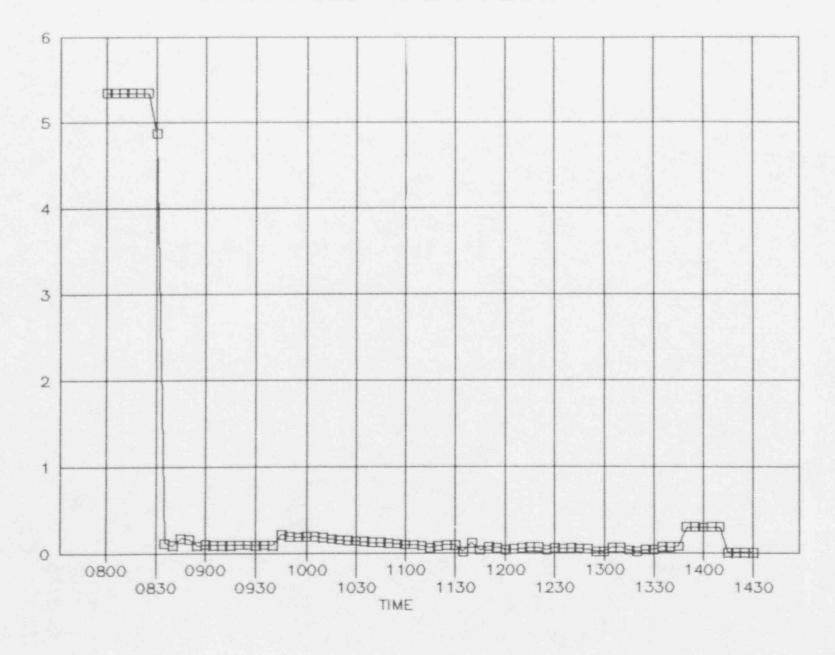
LETDOWN FLOW



MAIN FEEDWATER FLOW A

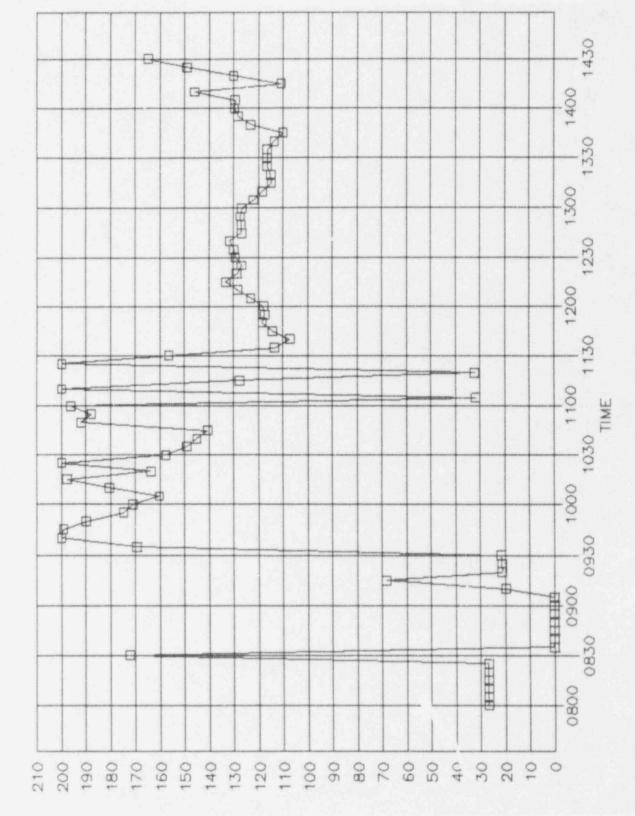


(Thousands)

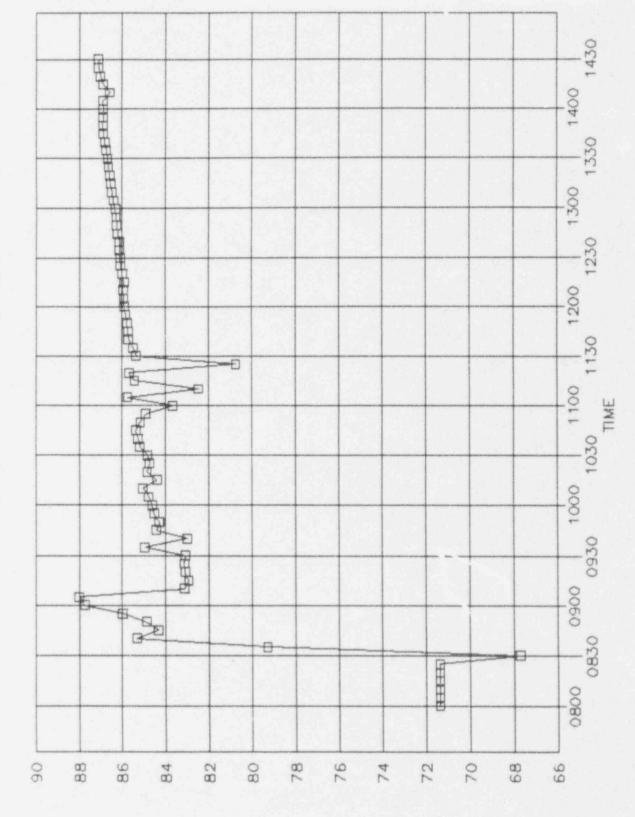


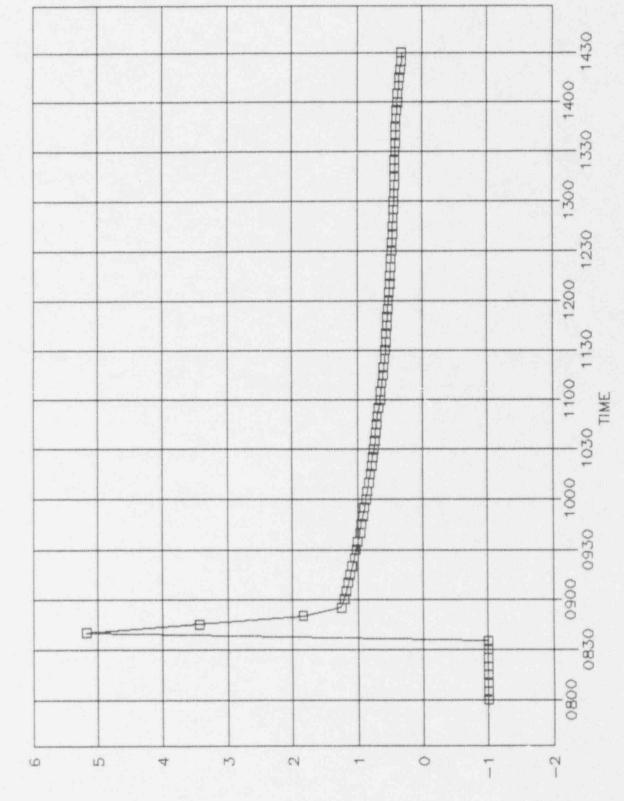
KLB/HR (Thousands)

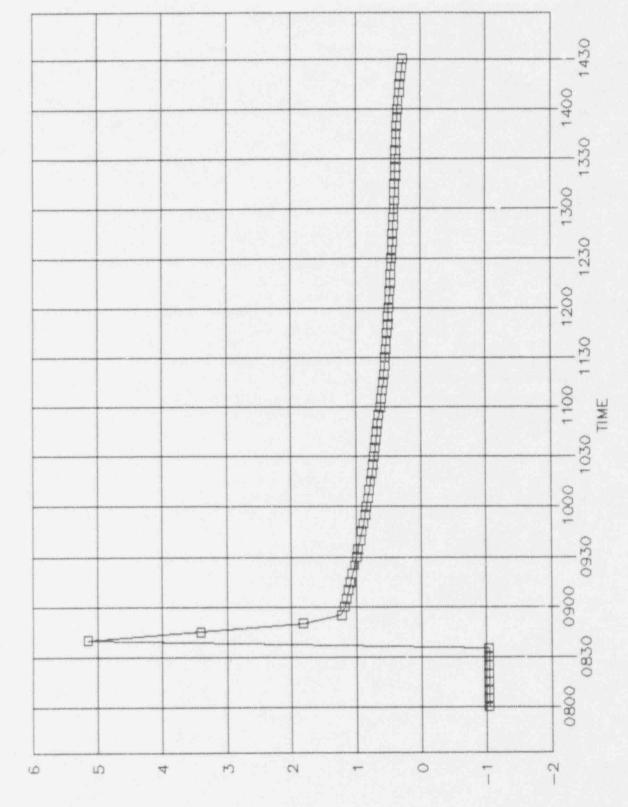
MAKEUP FLOW



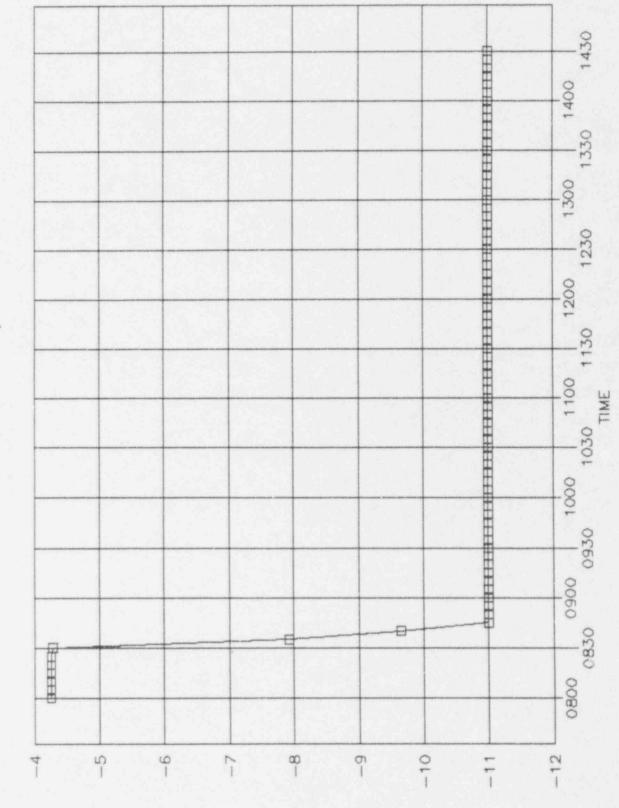
MAKEUP TANK LEVEL



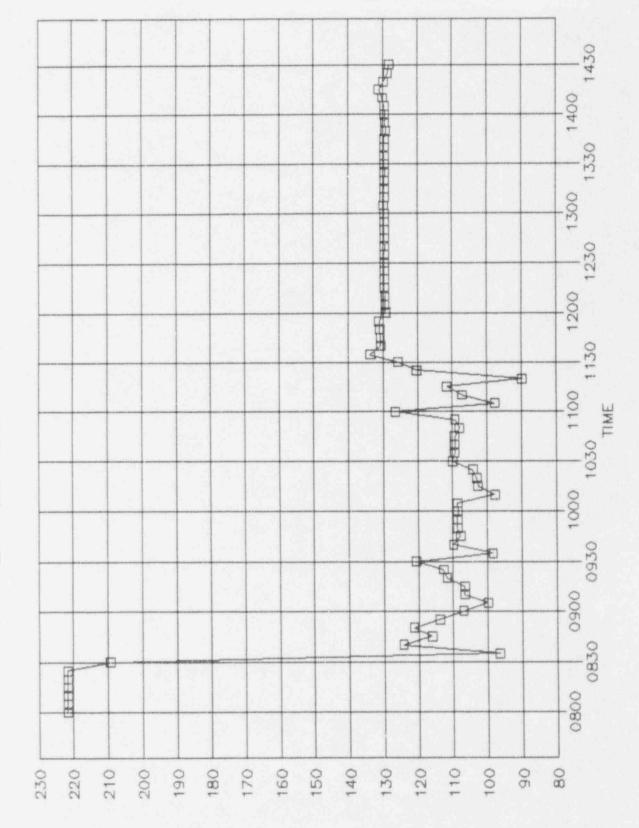




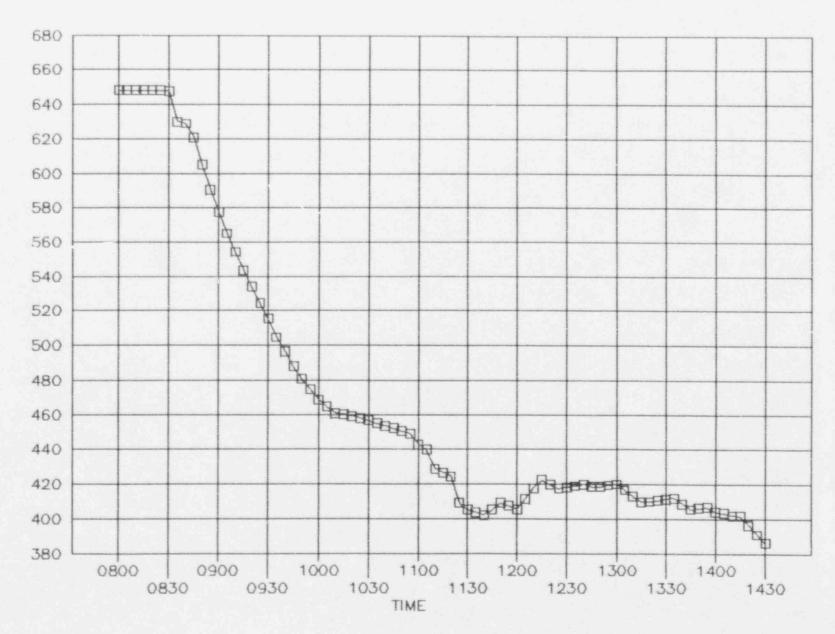
INT RANGE NI-3, NI-4



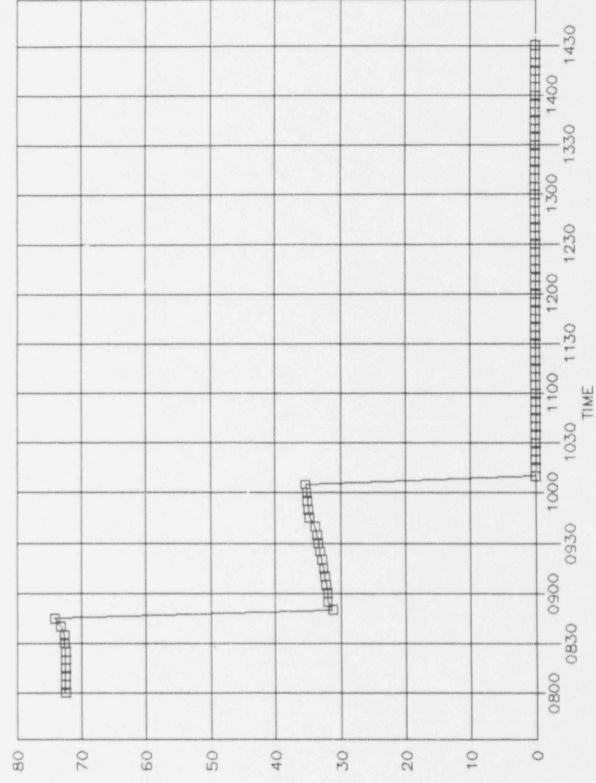
PZR LEVEL COMP IN.



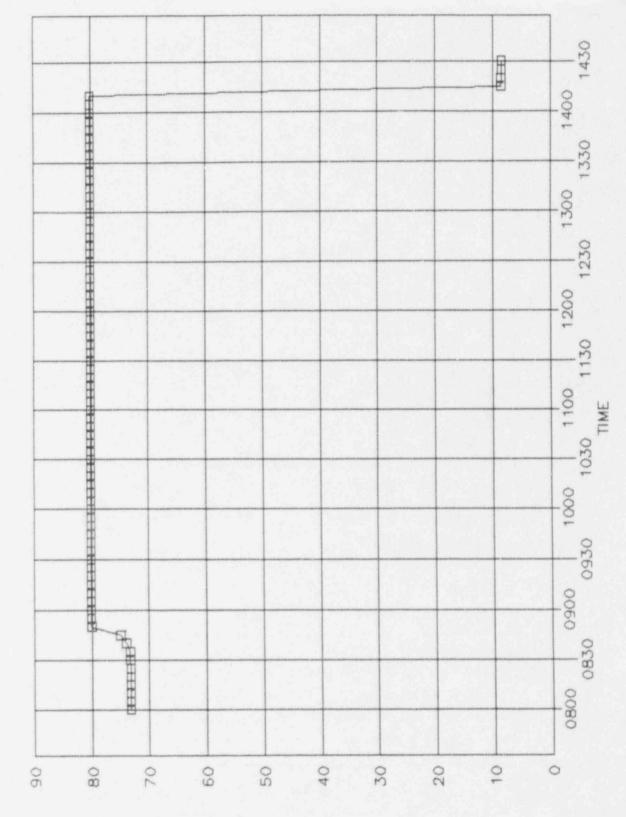


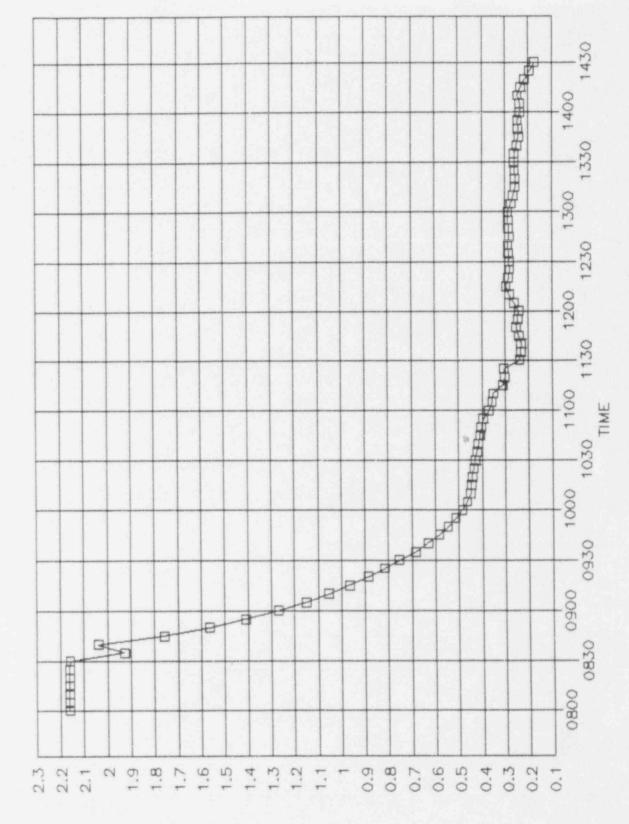




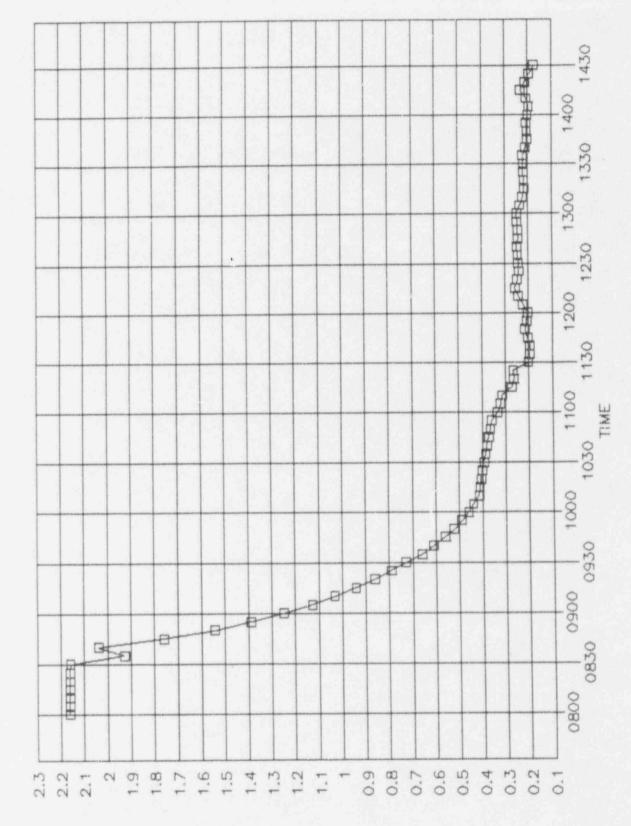


RC FLOW B CM



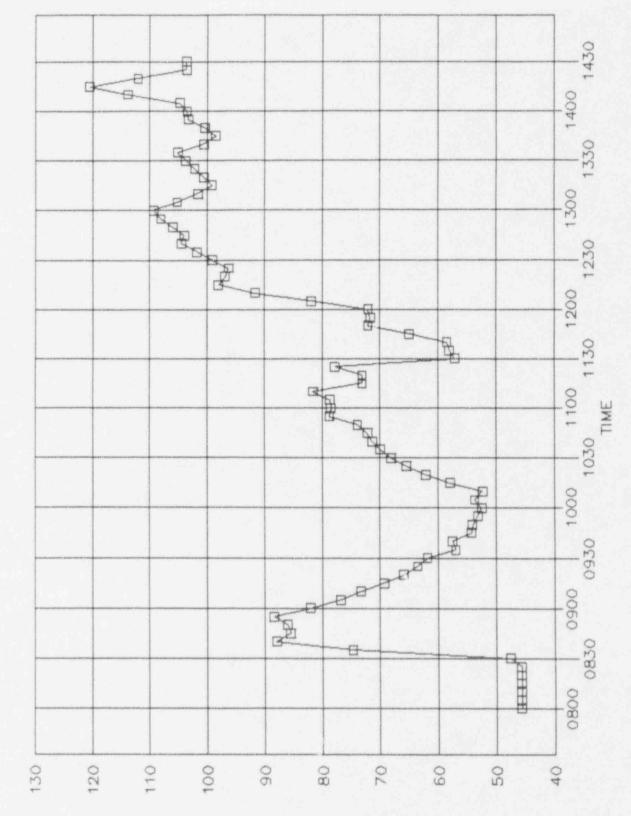


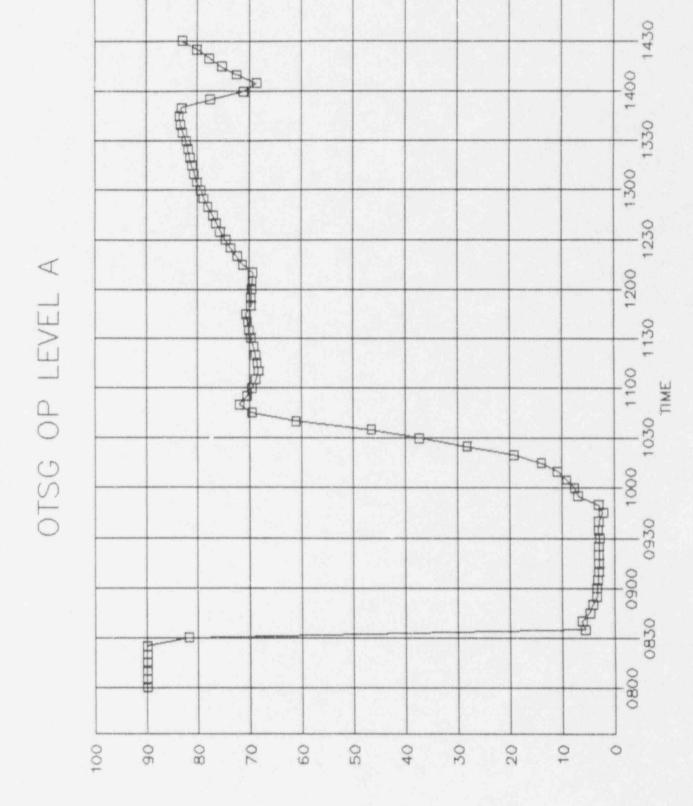
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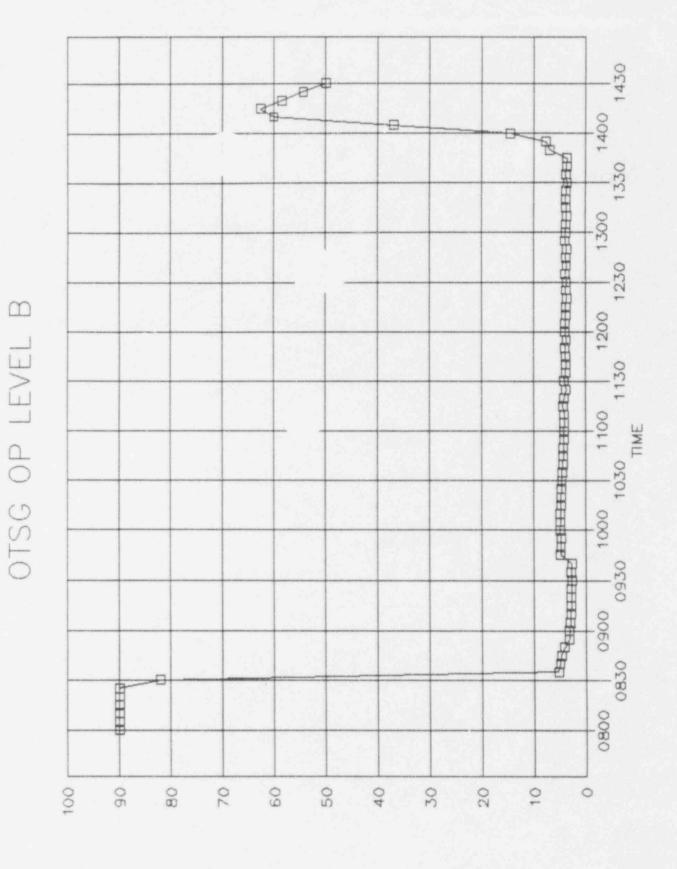
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SATURATION MARGIN



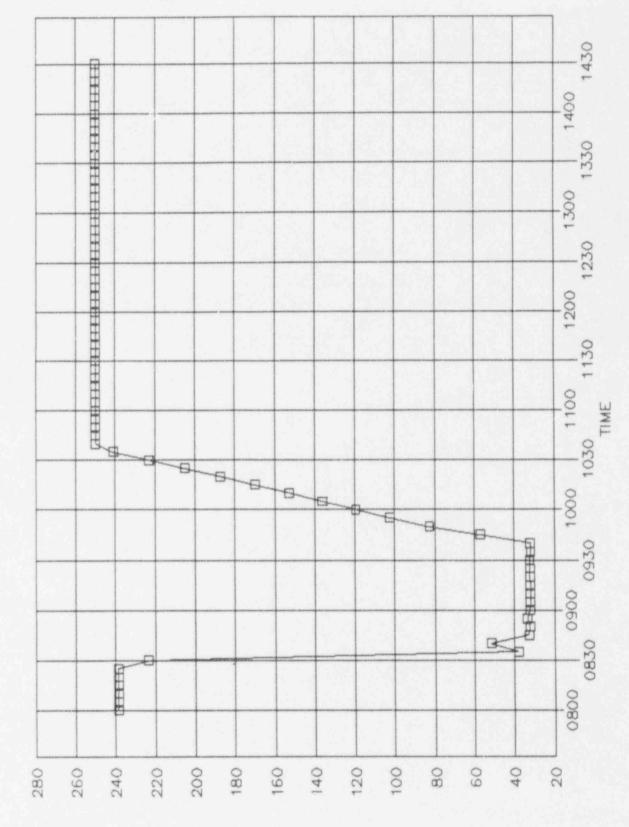


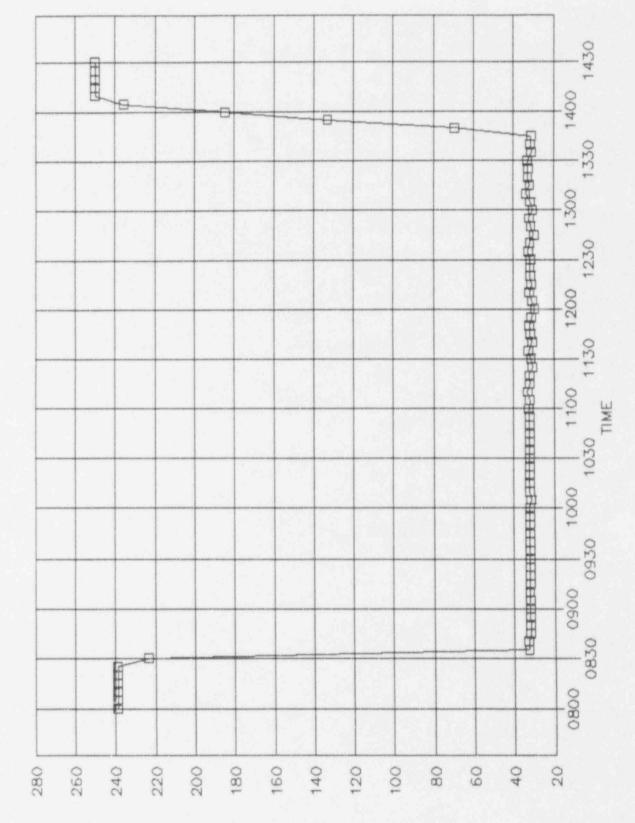
PERCENT

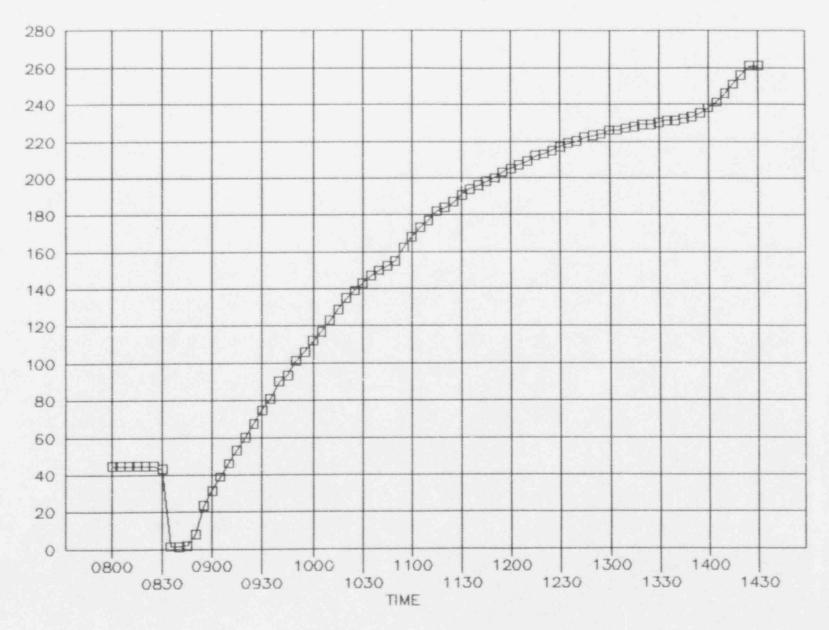


PERCENT

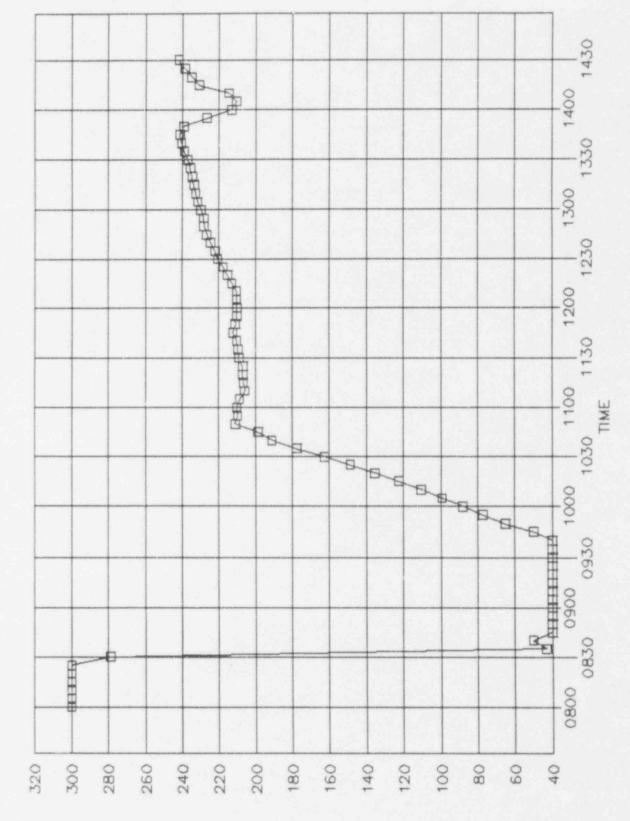
OTSG SU LEVEL A

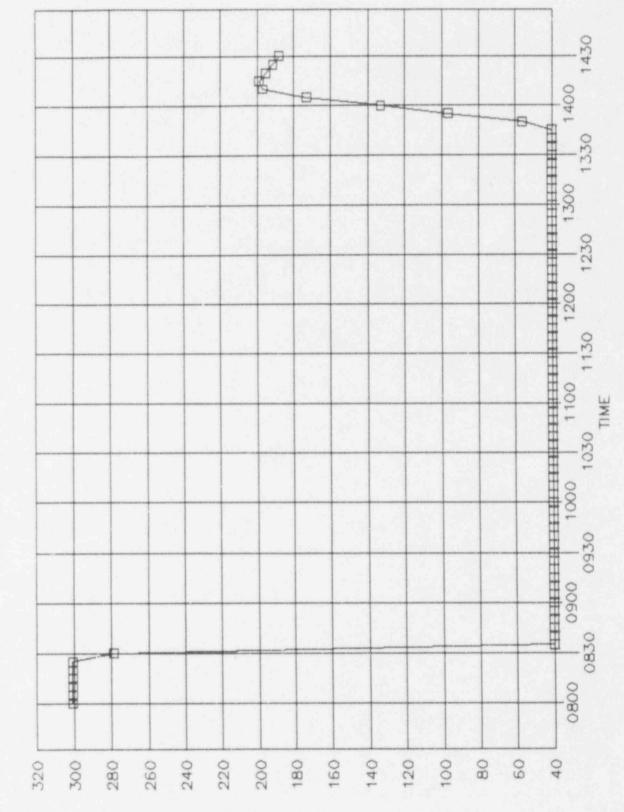




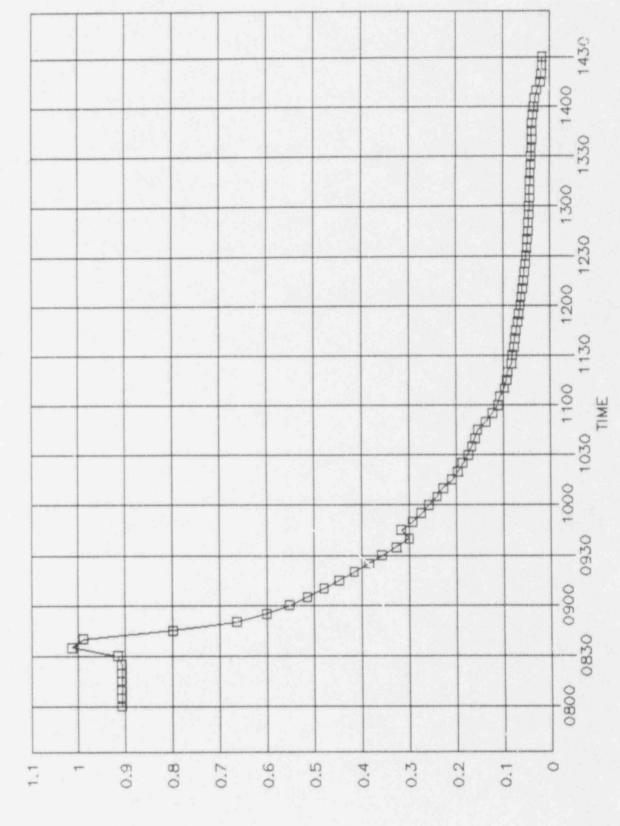


OTSG WR LEVEL A



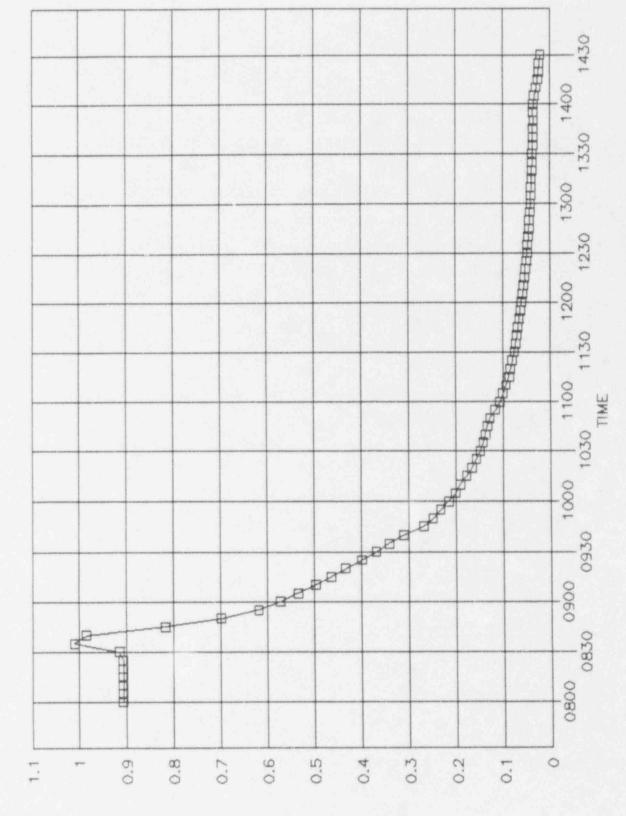






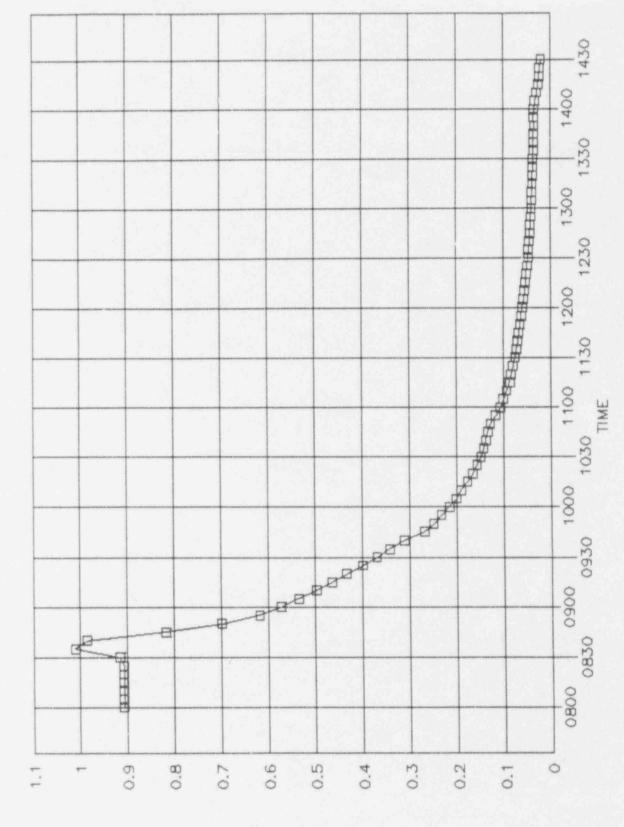
(Thousands)





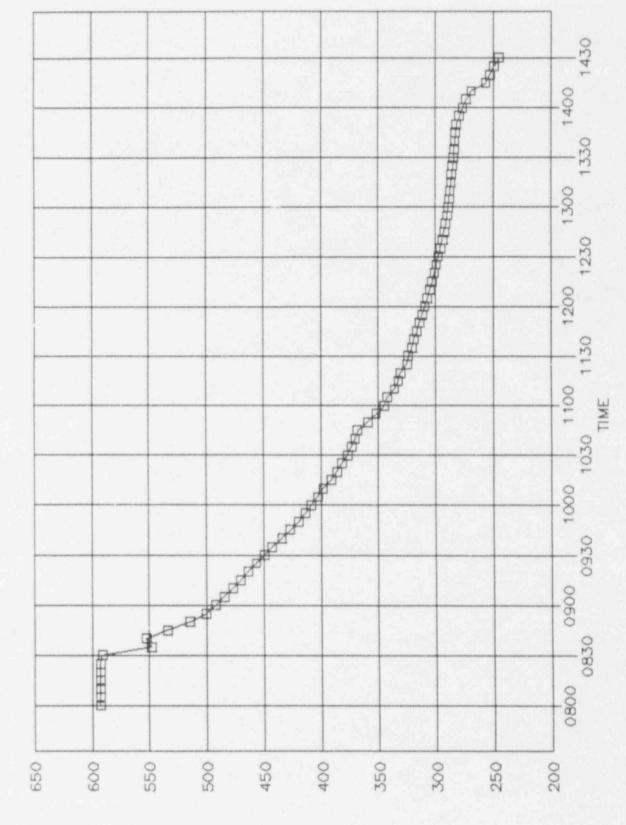
(Thousands)



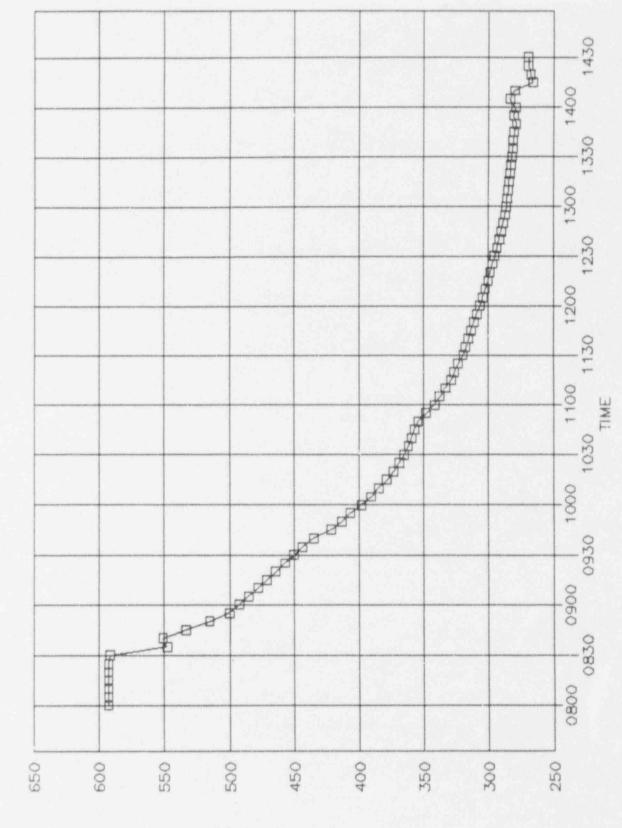


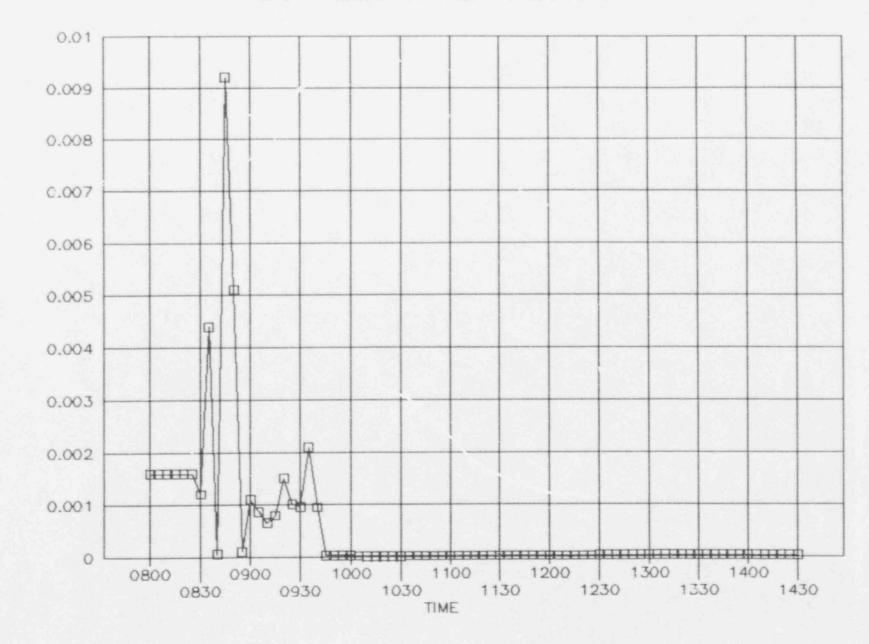
(SprosuorT)

STEAM TEMP OUT A

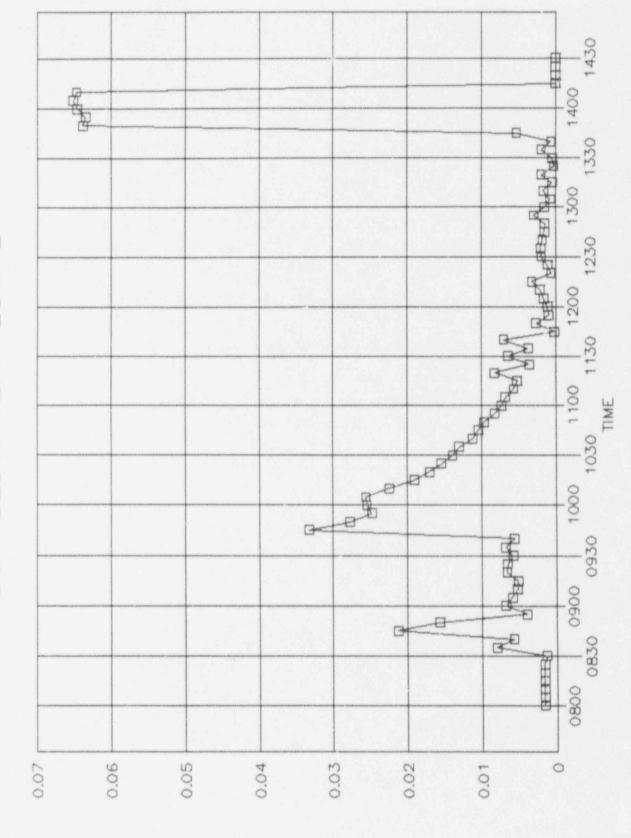


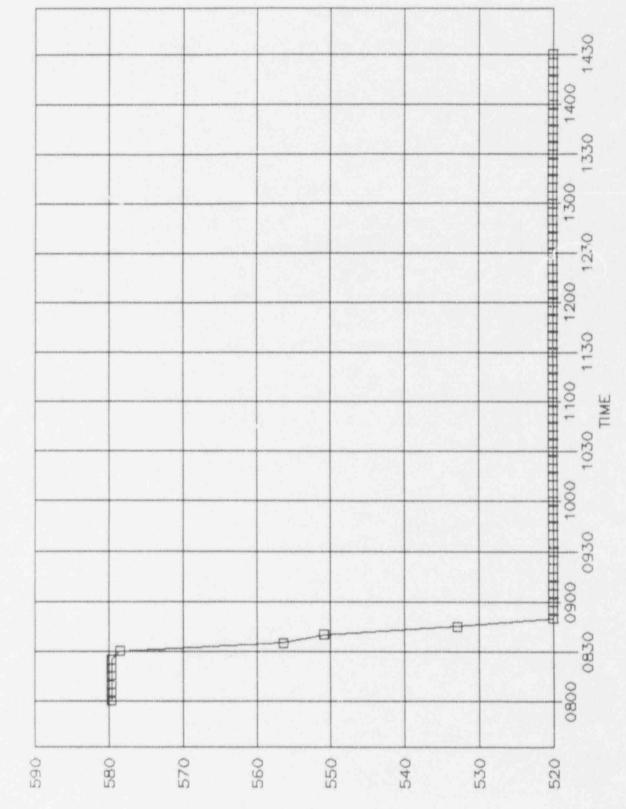
STEAM TEMP OUT B

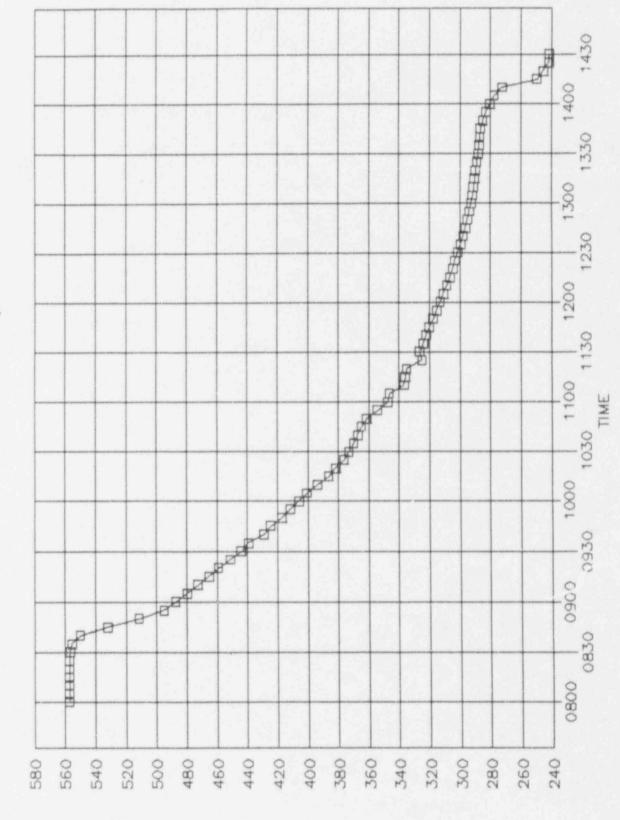


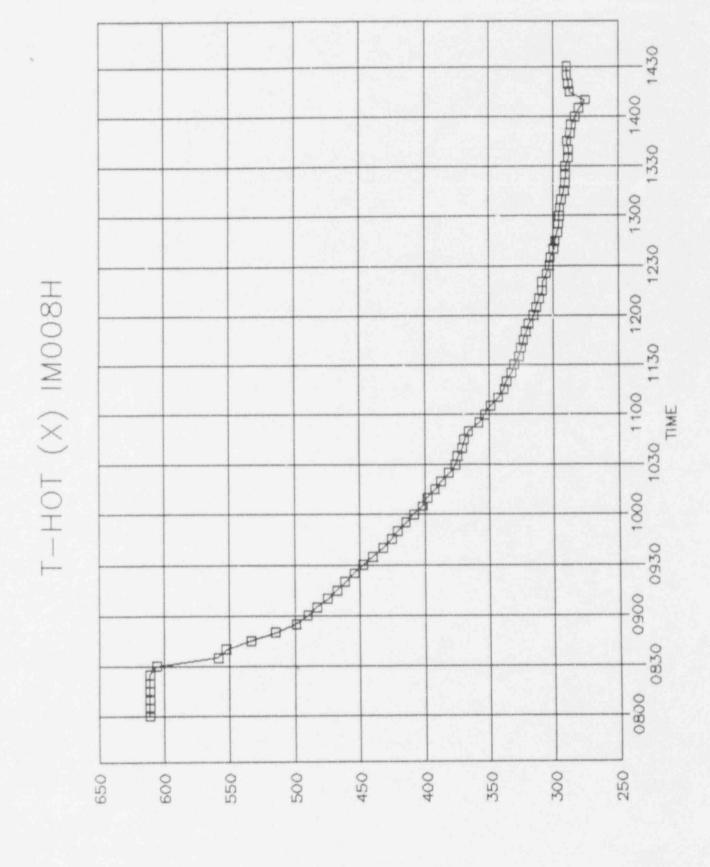


SU FEEDWATER FLOW B

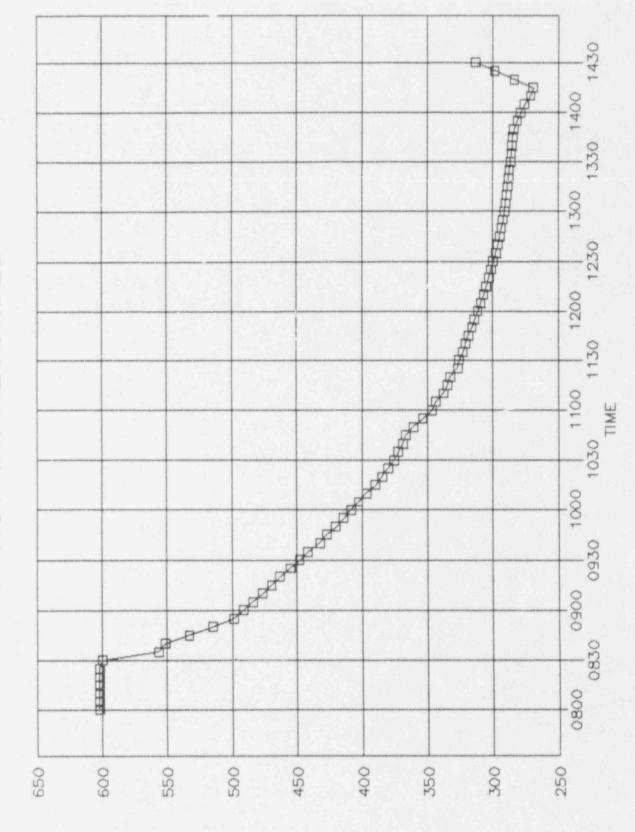




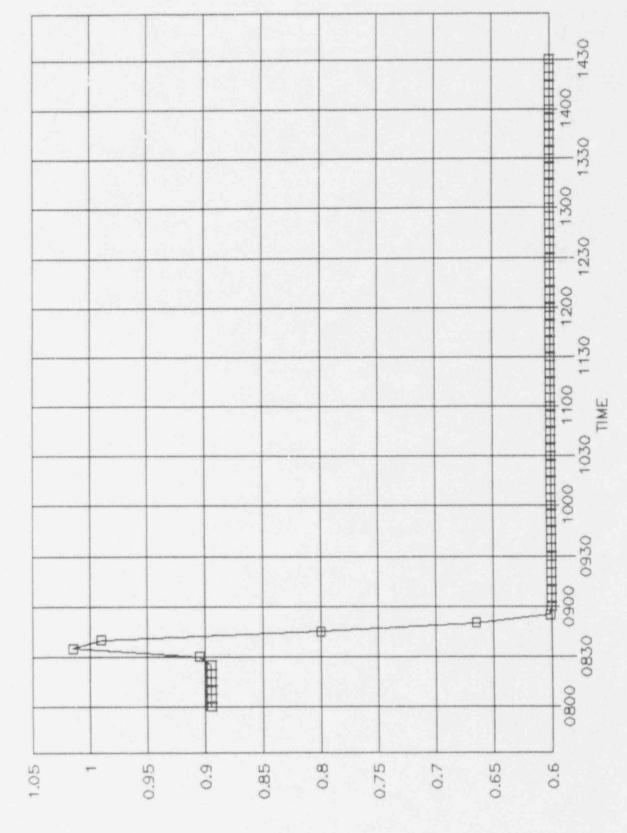




T-HOT WR RECORDED



TURB HDR PRES A



OISG (Thousands)

0900 1000 1100 1200 1300 1400 TURB HOR PRES B 0560 0800 1.05 0.95 0.85 6.0 0.8 0.75 0.65 9.0 0.7

(Thousands)

TURB BYPASS VLV A POSITION CATHER THE PARTY OF THE PARTY O 国

PERCENT

1000 | 1100 | 1200 | 1300 | 1400 | 1030 | 1130 | 1230 | 1330 | 1430 TURB BYPASS VLV B POSITION G S

PERCENT

RADIATION MONITORS

RM-A1L	RM-G12
RM-A1M	RM-G1
RM-A1H	RM-G2
RM-A1I	RM-G3
RM-A1P	RM-G4
RM-A2L	RM-G5
RM-A2M	RM-G6
RM-A2H	RM-G7
RM-A2I	RM-G8
RM-A2P	RM-G9
RM-A3	RM-G10
RM-A4	RM-G11
RM-A5G	RM-G13
RM-A5I/P	RM-G14
RM-A6G	RM-G15
RM-A6I/P	RM-G16
RM-A7	RM-G17
RM-A8	RM-G18
RM-A11	RM-G25
RM-A12	RM-G26
RM-L1	RM-G27
RM-L2	RM-G28
RM-L3	RM-G29
RM-L5	RM-G30
RM-L6	

	RM-A1L	RM-A1M	RM-A1H	RM-A1I	RM-A1P	RM-A2L	RM-A2M
0500	10	0.3	0.0	10	10	32	0.1
0515	10	0.4	0.0	10	10	22	0.1
0530	10	0.3	0.0	10	10	31	0.1
0545	10	0.3	0.0	10	10	26	0.1
0600	10	0.3	0.0	10	10	27	0.1
0615	10	0.4	0.0	10	10	35	0.1
0630	10	0.3	0.0	10	10	25	0.1
0645	10	0.2	0.0	10	10	23	0.1
0700	10	0.4	0.0	10	10	29	0.1
0715	10	0.4	0.0	10	10	22	0.1
0730	10	0.2	0.0	10	10	26	0.1
0745	10	0.3	0.0	10	10	27	0.1
0800	10	0.3	0.0	10	10	20	0.1
0815	10	0.3	0.0	10	10	30	0.1
0830	10	0.3	0.0	10	10	27	0.1
0845	10	0.2	0.0	10	10	8124	0.1
0900	10	0.3	0.0	10	10	6704	0.1
0915	10	0.3	0.0	10	10	5775	0.1
0930	10	0.2	0.0	10	10	5159	0.1
0945	10	0.3	0.0	10	10	3358	0.1
1000	10	0.3	0.0	10	10	3356	0.1
1015	10	0.3	0.0	10	10	4220	0.1
1030	10	0.4	0.0	10	10	4369	0.1
1045	10	0.3	0.0	10	10	4374	0.1
1100	10	0.3	0.0	10	10	4415	0.1
1115	10	0.3	0.0	10	10	4030	0.1
1130	10	0.3	0.0	10	10	3441	0.1
1145	10	0.3	0.0	10	10	3572	0.1
1200	10	0.3	0.0	10	10	3645	0.1
1215	10	0.3	0.0	10	10	4236	0.1
1230	10	0.3	0.0	10	10	4165	0.1
1245	10	0.2	0.0	10	10	4210	0.1
1300	10	0.3	0.0	10	10	4289	0.1
1315	10	0.4	0.0	10	10	3980	0.1
1330	10	0.4	0.0	10	10	4073	0.1
1345	10	0.3	0.0	10	10	3913	0.1
1400	10	0.3	0.0	10	10	3984	0.1
1415	10	0.3	0.0	10	10	4008	0.1
1430	10	0.3	0.0	10	10	4100	0.1
1445	10	0.3	0.0	10	10	3900	0.1

	RM-A2H	RM-A2I	RM-A2P	RM-A3	RM-A4	RM-A5G	RM-A5I/P
0500	0.1	31	23	23	25	13	20
0515	0.1	35	29	13	30	19	21
0530	0.1	30	25	14	33	21	17
0545	0.1	44	26	19	34	15	25
0600	0.1	44	21	20	26	23	18
0615	0.1	27	26	12	23	15	20
0630	0.1	34	23	17	23	17	15
0645	0.1	31	25	15	30	19	27
0700	0.1	28	26	15	30	19	16
0715	0.1	33	25	11	31	18	20
0730	0.1	26	23	14	29	22	27
0745	0.1	29	33	13	29	16	15
0800	0.1	32	22	10	31	16	19
0815	0.1	34	22	16	30	20	20
0830	0.1	26	30	11	24	16	16
0845	0.1	34	26	17	22962	18	18
0900	0.1	26	26	21	18956	15	13
0915	0.1	35	25	15	16334	23	23
0930	0.1	30	28	15	14596	19	19
0945	0.1	35	21	15	9513	15	27
1000	0.1	43	24	16	9506	22	18
1015	0.1	38	22	16	11947	22	25
1030	0.1	35	19	18	12366	19	22
1045	0.1	38	22	15	12381	15	21
1100	0.1	35	29	15	12495	15	15
1115	0.1	30	16	18	11410	21	25
1130	0.1	36	23	14	9748	24	23
1145	0.1	35	17	12	10116	23	23
1200	0.1	32	27	12	10323	23	18
1215	0.1	31	25	13	11991	19	15
1230	0.1	35	20	1.5	11789	20	
1245	0.1	23	20	13	11916	19	19
1300	0.1	29	27	17	12141	19	12
1315	0.1	33	23	12	11268	19	22
1330	0.1	39	25	14	11532	20	18
1345	0.1	36	20	15	11080	12	22
1400	0.1	30	30	17	11026	12	20
1415	0.1	30	25	16	11348	21	17
1430	0.1	32	18	11	10971	19	26
1445	0.1	34	26	14	10553	23	24

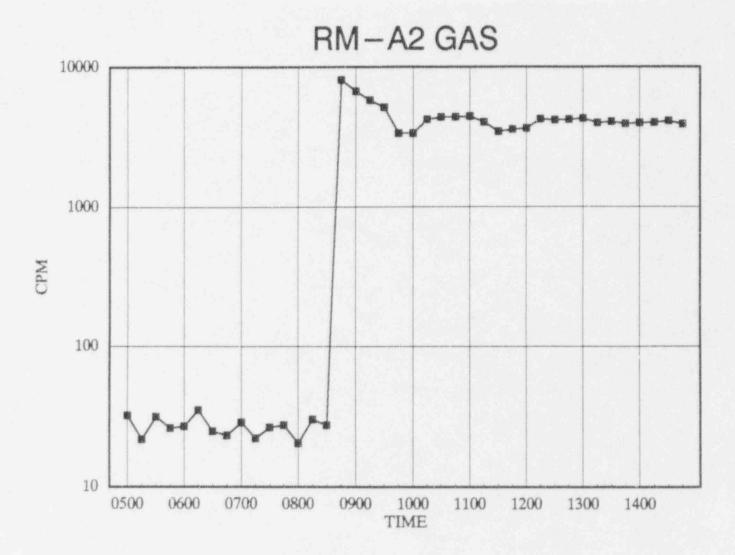
	RM-A6G	RM-A6I/P	RM-A7	RM-A8	RM-A11	RM-A12	RM-L1
0500	394	651	17	30	2298	44	12231
0515	395	668	19	27	2251	35	12120
0530	404	680	22	31	2332	36	12198
0545	452	660	25	33	2331	45	12209
0600	410	691	18	26	2245	42	12225
0615	441	679	18	27	2226	30	12096
0630	365	687	17	32	2305	36	12250
0645	428	693	16	23	2348	40	12357
0700	459	692	24	35	2188	38	12381
0715	401	677	22	31	2221	42	12389
0730	404	654	20	32	2313	34	12118
0745	407	699	15	30	2220	41	12173
0800	409	693	14	37	2199	31	12141
0815	432	653	26	31	2298	36	12418
0830	448	694	29	28	2229	35	11917
0845	426	662	27	37	2292	1.0E+06	12163
0900	439	681	30	34	2278	1.0E+06	12315
0915	392	661	26	29	2304	1.0E+06	12014
0930	435	692	19	26	2295	1.0E+06	12344
0945	396	668	14	21	2274	7.0E+05	12337
1000	396	686	26	25	2310	7.0E+05	12431
1015	409	664	19	27	2283	8.7E+05	12466
1030	428	679	20	31	2189	9.0E+05	12198
1045	418	671	16	27	2260	9.1E+05	12206
1100	418	654	22	22	2178	9.1E+05	12181
1115	380	659	21	24	2322	8.3E+05	12200
1130	426	686	18	36	2257	7.1E+05	12509
1145	437	652	18	32	2337	7.4E+05	12574
1200	393	654	19	21	2338	7.6E+05	12523
1215	422	680	26	27	2309	8.8E+05	12380
1230	401	654	13	23	2256	8.6E+05	12346
1245	438	685	18	35	2260	8.7E+05	12189
1300	441	660	17	27	2275	8.9E+05	12063
1315	375	671	20	21	2331	8.2E+05	12233
1330	402	691	19	31	2266	8.4E+05	12080
1345	407	686	17	22	2328	8.1E+05	12075
1400	429	683	25	25	2250	8.1E+05	12498
1415	403	673	20	30	2244	5.0E+01	12290
1430	406	688	18	24	2228	1.0E+06	12436
1445	413	669	15	23	2282	1.0E+03	12209

	RM-L2	RM-L3	RM-L5	RM-L6	RM-G12	RM-G1	RM-G2
0500	40128	484	381	303	5.6	0.1	0.2
0515	39988	480	422	323	5.4	0.1	0.3
0530	40563	468	362	337	5.4	0.1	0.2
0545	40452	508	363	319	5.7	0.1	0.2
0600	40369	454	410	309	5.4	0.1	0.2
0615	40104	444	383	320	5.3	0.1	0.3
0630	39926	428	374	322	5.5	0.1	0.2
0645	40499	502	383	331	5.7	0.1	0.2
0700	40277	458	374	361	4.8	0.1	0.3
0715	40539	477	389	311	5.7	0.1	0.2
0730	40034	505	379	341	6.5	0.1	0.2
0745	41152	438	404	301	5.2	0.1	0.2
0800	40932	532	387	332	5.5	0.1	0.2
0815	40720	454	387	308	4.8	0.1	0.2
0830	41022	466	382	358	5.3	0.1	0.2
0845	40740	473	389	335	6.1	0.1	0.3
0900	41516	455	357	309	5.4	0.1	0.2
0915	43459	497	379	342	5.2	0.1	0.3
0930	44038	495	350	310	5.7	0.1	0.2
0945	28412	444	372	330	6.2	0.1	0.2
1000	27996	475	412	335	4.8	0.1	0.3
1015	41930	490	390	330	5.4	0.1	0.3
1030	42130	465	364	344	5.2	0.1	0.2
1045	42001	491	420	319	5.2	0.1	0.2
1100	42213	425	395	336	5.3	0.1	0.2
1115	42187	452	343	298	5.5	0.1	0.2
1130	42395	449	380	366	5.3	0.1	0.2
1145	42028	453	388	333	5.4	0.1	0.2
1200	41657	440	349	326	5.4	0.1	0.2
1215	41795	471	370	373	5.8	0.1	0.2
1230	42157	432	402	338	4.9	0.1	0.2
1245	41847	412	346	341	5.8	0.1	0.2
1300	41895	489	398	323	5.6	0.1	0.2
1315	41713	439	369	331	5.4	0.1	0.2
1330	42410	455	338	305	5.4	0.1	0.2
1345	41566	488	399	289	5.8	0.1	0.2
1400	42104	416	352	341	6.0	0.1	0.2
1415	41445	470	393	309	5.3	0.1	0.2
1430	41833	469	392	327	5.8	0.1	0.2
1445	42018	449	391	349	5.8	0.1	0.2

	RM-G3	RM-G4	RM-G5	RM-G6	RM-G7	RM-G8	RM-G9
0500	0.5	0.2	8.0	283.6	4.0	0.1	0.1
0515	0.6	0.3	8.0	284.4	3.7	0.1	0.1
0530	0.6	0.2	8.0	283.8	4.0	0.1	0.1
0545	0.6	0.2	8.0	285.7	3.9	0.1	0.1
0600	0.5	0.2	8.0	279.1	3.9	0.1	0.1
0615	0.5	0.3	8.0	279.3	4.1	0.1	0.1
0630	0.7	0.2	8.0	273.9	4.0	0.1	0.1
0645	0.6	0.2	8.0	274.7	4.2	0.1	0.1
0700	0.6	0.2	8.0	278.1	3.8	0.1	0.1
0715	0.7	0.2	8.0	275.4	3.7	0.1	0.1
0730	0.5	0.3	8.0	275.9	4.0	0.1	0.1
0745	0.6	0.3	8.0	272.3	4.5	0.1	0.1
0800	0.5	0.2	8.0	275.8	4.2	0.1	0.1
0815	0.7	0.2	8.0	275.5	4.0	0.1	0.1
0830	0.7	0.2	8.0	274.0	3.5	0.1	0.1
0845	0.6	0.3	8.0	272.1	3.8	0.1	0.1
0900	0.6	0.2	8.0	273.5	3.8	0.1	0.1
0915	0.7	0.2	8.0	269.2	4.1	0.1	0.1
0930	0.7	0.2	8.0	275.5	4.0	0.1	0.1
0945	0.5	0.2	8.0	275.4	4.1	0.1	0.1
1000	0.7	0.3	8.0	274.0	4.0	0.1	0.1
1015	0.6	0.2	8.0	274.6	4.5	0.1	0.1
1030	0.6	0.3	8.0	275.4	4.1	0.1	0.1
1045	0.7	0.4	8.0	273.6	3.8	0.1	0.1
1100	0.6	0.3	8.0	275.4	4.2	0.1	0.1
1115	0.7	0.2	8.0	274.9	4.4	0.1	0.1
1130	0.6	0.2	8.0	273.1	3.8	0.1	0.1
1145	0.6	0.2	8.0	277.3	4.2	0.1	0.1
1200	0.6	0.2	8.0	276.6	4.1	0.1	0.1
1215	0.6	0.2	8.0	271.6	3.5	0.1	0.1
1230	0.7	0.3	8.0	271.7	4.4	0.1	0.1
1245	0.7	0.3	8.0	274.5	4.3	0.1	0.1
1300	0.5	0.3	8.0	274.5	3.6	0.1	0.1
1315	0.6	0.2	8.0	275.3	4.2	0.1	0.1
1330	0.7	0.2	8.0	272.1	4.0	0.1	0.1
1345	0.6	0.2	8.0	272.7	3.8	0.1	0.1
1400	0.6	0.2	8.0	275.1	4.3	0.1	0.1
1415	0.6	0.2	8.0	273.3	3.9	0.1	0.1
1430	0.6	0.2	8.0	276.3	3.9	0.1	0.1
1445	0.6	0.2	8.0	275.4	4.2	0.1	0.1

	RM-G10	RM-G11	RM-G13	RM-G14	RM-G15	RM-G16	RM-G17
3507	1.9	0.1	0.2	0.2	0.7	106.9	0.6
0515	1.6	0.1	0.1	0.2	0.6	109.7	0.7
0530	1.8	0.1	0.2	0.2	0.8	101.9	0.6
0545	2.1	0.1	0.2	0.2	0.7	103.1	0.5
0600	2.4	0.1	0.1	0.2	0.5	109.0	0.6
0615	1.9	0.1	0.2	0.2	0.8	105.0	0.6
0630	1.8	0.1	0.2	0.2	0.6	109.5	0.5
0645	1.9	0.1	0.2	0.2	0.6	105.7	0.5
0700	2.2	0.1	0.2	0.2	0.6	104.7	0.5
0715	3.4	0.1	0.2	0.2	0.7	106.4	0.6
0730	2.3	0.1	0.2	0.2	0.6	108.5	0.6
0745	3.8	0.1	0.1	0.2	0.8	103.4	0.6
0800	3.7	0.1	0.2	0.2	0.7	108.8	0.6
0815	1.6	0.1	0.2	0.2	0.5	103.5	0.7
0830	1.6	0.1	0.1	0.2	0.8	106.9	0.6
0845	2.1	0.1	0.2	0.2	0.7	105.4	0.6
0900	1.5	0.1	0.1	0.2	0.7	107.7	0.7
0915	1.8	0.1	0.2	0.2	0.6	102.5	0.5
0930	1.7	0.1	0.2	0.2	0.6	101.0	0.7
0945	1.6	0.1	0.2	0.2	0.7	102.2	0.7
1000	2.0	0.1	0.2	0.2	0.6	108.5	0.5
1015	1.9	0.1	0.2	0.2	0.6	107.2	0.7
1030	1.9	0.1	0.2	0.2	0.8	102.6	0.7
1045	1.7	0.1	0.2	0.2	0.7	106.2	0.5
1100	1.6	0.1	0.2	0.2	0.6	102.5	0.6
1115	1.8	0.1	0.2	0.2	0.7	105.5	0.6
1130	1.6	0.1	0.2	0.2	0.6	106.7	0.6
1145	2.1	0.1	0.2	0.2	0.7	105.2	0.6
1200	1.8	0.1	0.2	0.2	0.6	106.6	0.6
1215	1.4	0.1	0.2	0.2	0.7	100.3	0.6
1230	2.2	0.1	0.2	0.2	0.6	105.3	0.6
1245	1.8	0.1	0.2	0.2	0.6	101.1	0.6
1300	1.7	0.1	0.2	0.2	0.6	106.4	0.7
1315	1.7	0.1	0.2	0.2	0.6	107.5	0.5
1330	3.1	0.1	0.3	0.2	0.8	104.5	0.7
1345	1.5	0.1	0.2	0.2	0.8	102.5	0.6
1400	2.2	0.1	0.1	0.2	0.6	108.1	0.6
1415	1.8	0.1	0.2	0.2	0.7	103.7	0.7
1430	2.3	0.1	0.2	0.2	0.6	102.5	0.7
1445	3.3	0.1	0.2	0.2	0.6	109.6	0.6

	RM-G18	RM-G25	RM-G26	RM-G27	RM-G28	RM-G29	RM-G30
0500	29.9	0.1	0.1	0.1	0.1	1.5	1.6
0515	29.1	0.1	0.1	0.1	0.1	1.5	1.6
0530	29.0	0.1	0.1	0.1	0.1	1.5	1.6
0545	29.5	0.1	0.1	0.1	0.1	1.5	1.6
0600	29.3	0.1	0.1	0.1	0.1	1.5	1.6
0615	29.7	0.1	0.1	0.1	0.1	1.5	1.6
0630	29.0	0.1	0.1	0.1	0.1	1.5	1.6
0645	28.7	0.1	0.1	0.1	0.1	1.5	1.6
0700	28.6	0.1	0.1	0.1	0.1	1.5	1.6
0715	29.6	0.1	0.1	0.1	0.1	1.5	1.6
0730	29.1	0.1	0.1	0.1	0.1	1.5	1.6
0745	28.9	0.1	0.1	0.1	0.1	1.5	1.6
0800	28.4	0.1	0.1	0.1	0.1	1.5	1.6
0815	29.9	0.1	0.1	0.1	0.1	1.5	1.6
0830	28.8	0.1	0.1	200.0	0.1	1.5	1.6
0845	29.7	0.1	0.1	0.6	0.1	1.5	1.6
0900	29.2	0.1	0.1	0.1	0.1	1.5	1.6
0915	29.1	0.1	0.1	0.1	0.1	1.5	1.6
0930	29.3	0.1	0.1	0.1	0.1	1.5	1.6
0945	29.3	0.1	0.1	0.1	0.1	1.5	1.6
1000	29.5	0.1	0.1	0.1	0.1	1.5	1.6
1015	30.0	0.1	0.1	0.1	0.1	1.5	1.6
1030	28.3	0.1	0.1	0.1	0.1	1.5	1.6
1045	29.2	0.1	0.1	0.1	0.1	1.4	1.6
1100	29.8	0.1	0.1	0.1	0.1	1.5	1.6
1115	29.4	0.1	0.1	0.1	0.1	1.5	1.6
1130	29.6	0.1	0.1	0.1	0.1	1.5	1.6
1145	29.2	0.1	0.1	0.1	0.1	1.5	1.6
1200	29.7	0.1	0.1	0.1	0.1	1.5	1.6
1215	29.2	0.1	0.1	0.1	0.1	1.5	1.6
1230	28.8	0.1	0.1	0.1	0.1	1.5	1.6
1245	27.4	0.1	0.1	0.1	0.1	1.4	1.6
1300	29.0	0.1	0.1	0.1	0.1	1.5	1.6
1315	29.9	0.1	0.1	0.1	0.1	1.5	1.6
1330	28.7	0.1	0.1	0.1	0.1	1.5	1.6
1345	29.2	0.1	0.1	0.1	0.1	1.5	1.6
1400	28.6	0.1	0.1	0.1	0.1	1.5	1.6
1415	30.1	0.1	0.1	0.1	0.1	1.4	1.6
1430	29.2	0.1	0.1	0.1	0.1	1.5	1.6
1445	29.5	0.1	0.1	0.1	0.1	1.5	1.6



RM-A12

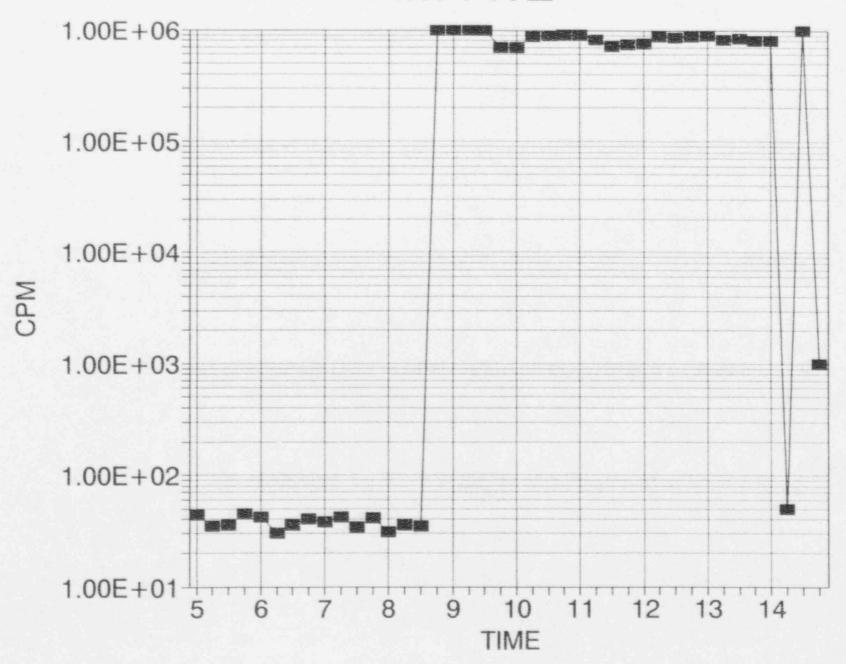


Table 12.2

Radiation Monitoring Systems

Monitor		Range of	Detector	Type
Designation	Description	Sensitivity	Type	Radiation
RM-G1	Control Room	.1 - 1 x 10 mr/hr	G.M.	Gamma
RM-G2	Radiochemistry Laboratory	.1 - 1 x 104 mr/hr	G.M.	Gamma
RM-G3	Sample Room	.1 - 1 x 10 mr/hr	G.M.	Gamma
RM-G4	Entrance Corridor	.1 - 1 x 104 mr/hr	G.M.	Gamma
RM-G5	Waste Gas Decay Tank Area	.1 - 1 x 10 ⁴ mr/hr	G.M.	Ganma
RM-G6	Makeup Tank Area	.1 - 1 x 10 ⁴ mr/hr	G.M.	Gamma
RM-G7	Reactor Coolant Bleed Tank			
	Elev. 95'	.1 - 1 x 10 ⁴ mr/hr	G.M.	Gamma
RM-G8	Reactor Coolant Bleed Tank			
	Elev. 115'	.1 - 1 x 10 mr/hr	G.M.	Gamma
RM-G9	Personnel Access Hatch	.1 - 1 x 10° mr/hr	G.M.	Gamma
RM-G10	Makeup Pump Area	.1 - 1 x 10 mr/hr	G.M.	Gamma
RM-G11	Deborating - Demineralizer Area	.1 - 1 x 10° mr/hr	G.M.	Gamma
RM-G12	Spent Resin Storage Tank Area	.1 - 1 x 104 mr/hr	G.M.	Gamma
RM-G13	Decontamination Pit Area	.1 - 1 x 104 mr/hr	G.M.	Gamma
RM-G14	Fuel Storage Pool Area	.1 - 1 x 104 mr/hr	G.M.	Garma
RM-G15	Auxiliary Building Fuel Handling			
	Bridge	.1 - 1 x 104 mr/hr	G.M.	Gamma
RM-G16	Reactor Building Fuel Handling			
	Bridge	.1 - 1 x 10 ⁶ mr/hr	G.M.	Gamma
RM-G17	Reactor Building, Near Personnel			
	Access Hatch	.1 - 1 x 10 ⁴ mr/hr	G.M.	Gamma
RM-G18	Reactor Building, In-Core			
	Instrument Area	.1 - 1 x 10 ⁴ mr/hr	G.M.	Gamma
RM-G25	Steam Line Monitors (119' Inter.			
	Bldg.)	.1 - 1 x 10 mr/hr	Ion Chamber	Ganma
RM-G26	Steam Line Monitors (119' Inter.	7		
	Bldg.)	$.1 - 1 \times 10^7 \text{mr/hr}$	Ion Chamber	Gamma
RM-G27	Steam Line Monitors (119' Inter.	,		
	Bldg.)	$.1 - 1 \times 10^7 \text{mr/hr}$	Ion Chamber	Gamma

Table 12.2 (Continued)

Radiation Monitoring Systems

Monitor Designation	Description	Range of Sensitivity	Detector Type	Type <u>Radiation</u>
RM-G28	Steam Line Monitor (119' Inter. Bldg.)	.1 - 1 x 10 ⁷ mr/hr	Ion Chamber	Gamma
RM-G29	Reactor Building, Elev. 180'	10 ⁰ - 10 ⁸ R/hr	Ion Chamber	Gamma
RM-G30	Reactor Building, Elev. 180'	10 ⁰ - 10 ⁸ R/hr	Ion Chamber	Ganma
RM-A1	Reactor Building Purge Duct (Mid Range) (High Range	$10^{-2} - 10^{3}$ mr/hr	Scintillation Scintillation G.M. Ion Chamber Ion Chamber	P-Cs ¹³⁷ , Beta-G I-I ¹³¹ Gamma G-Kr ³⁵ , Beta-G Gamma Gamma
RM-A2	Auxiliary and Fuel Handling Building Exhaust Duct (Mid Range) (High Range	10 ⁻¹¹ - 10 ⁻⁷ Ci/cc 10 ⁻¹¹ - 10 ⁻⁷ Ci/cc 10 ⁻⁶ - 10 ⁻² Ci/cc 10 ⁻² - 10 ³ mr/hr)10 ⁻¹ - 10 ⁷ mr/hr	Scintillation Scintillation G.M. Ion Chamber Ion Chamber	P-Cs ¹³⁷ , Beta-G I-I ¹³¹ , Gamma G-Kr ⁸⁵ , Beta-G Gamma Gamma
RM-A3 RM-A4	Auxiliary Building Exhaust Duct Fuel Handling and Spent Fuel	10 ⁻⁶ - 10 ⁻² Ci/cc	G.M.	G-Kr ⁸⁵ , Beta-G
RM-A5	Exhaust Duct Control Complex Return Duct	10 ⁻⁶ - 10 ⁻² Ci/cc 10 ⁻⁶ - 10 ⁻² Ci/cc 10 ⁻¹¹ - 10 ⁻⁷ Ci/cc	G.M.	G-Kr ⁸⁵ , Beta-G G-Kr ⁸⁵ , Beta-G I-1 ¹³¹ , Gamma
RM-A6	Reactor Building Air Sample Line	10 ⁻⁶ - 10 ⁻² Ci/cc	G.M.	
RM-A7 RM-A8	Nuclear Sample Room Auxiliary Building Exhaust Duct	10 ⁻¹¹ - 10 ⁻⁷ Ci/cc 10 ⁻⁶ - 10 ⁻² Ci/cc 10 ⁻⁶ - 10 ⁻² Ci/cc	G.M.	G-Kr ⁸⁵ , Beta-G I-I ¹³¹ , Gamma G-Kr ⁸⁵ , Beta-G G-Kr ⁸⁵ , Beta-G

P = Particulate I = Iodine G = Gaseous

Table 12.2 (Continued)

Radiation Monitoring Systems

Monitor Designation	Description	Range of Sensitivity	Detector Type	Type <u>Radiation</u>
RM-A9	Not Assigned			
RM-A10	Not Assigned			
RM-All	Waste Gas Decay Tank	10 ⁻⁶ - 10 ⁻² Ci/cc	G.M.	G-Kr85, Beta-G
RM-A12	Condenser Vacuum Pump Exhaust	10 ⁻⁶ - 10 ⁻² Ci/cc	G.M.	G-Kr Beta-G
RM-A13	Gas Sampling Station	10 ⁻⁶ - 10 ⁻² Ci/cc	G.M.	G-Kr ⁸⁵ , Beta-G
RM-L1	Primary Coolant Letdown	10 ⁻⁵ - 10 ⁻¹ Ci/cc	Scintillation	G-Kr ^{as} , Beta-G G-Kr ^{as} , Beta-G I-I ¹³¹ , Gamma
RM-L2	Plant Discharge Line	10 ⁻⁶ - 10 ⁻² Ci/cc	Scintillation	Co ⁶⁰ , Gamma
RM-L3	Nuclear Services Closed Cycle			
	Cooling Water	10 ⁻⁶ - 10 ⁻² Ci/cc	Scintillation	Co ⁶⁰ , Gamma
RM-L4	Spent Fuel Cooling Water	10 ⁻⁶ - 10 ⁻² Ci/cc	Scintillation	Co ⁶⁰ , Ganma
RM-L5	Decay Heat Closed Cycle Cooling			
	Water, I	10 ⁻⁶ - 10 ⁻² Ci/cc	Scintillation	Co ⁶⁰ , Gamma
RM-L6	Decay Heat Closed Cycle Cooling			
	Water, II	10 ⁻⁶ - 10 ⁻² Ci/cc	Scintillation	Co ⁶⁰ , Gamma
RM-L7	Turbine Building Basement	10 ⁻⁶ - 10 ⁻² Ci/cc	Scintillation	Co ⁶⁰ , Gamma Co ⁶⁰ , Gamma

P = Particulate I = Iodine G = Gaseous

1992 EXERCISE IN-PLANT DATA

TURBINE BUILDING

The elevation maps show the whole body dose rates in the turbine building at various times and locations during the exercise.

Dose rates are due to shine from iodine and other isotopes accumulating in the condensate deminerlizers.

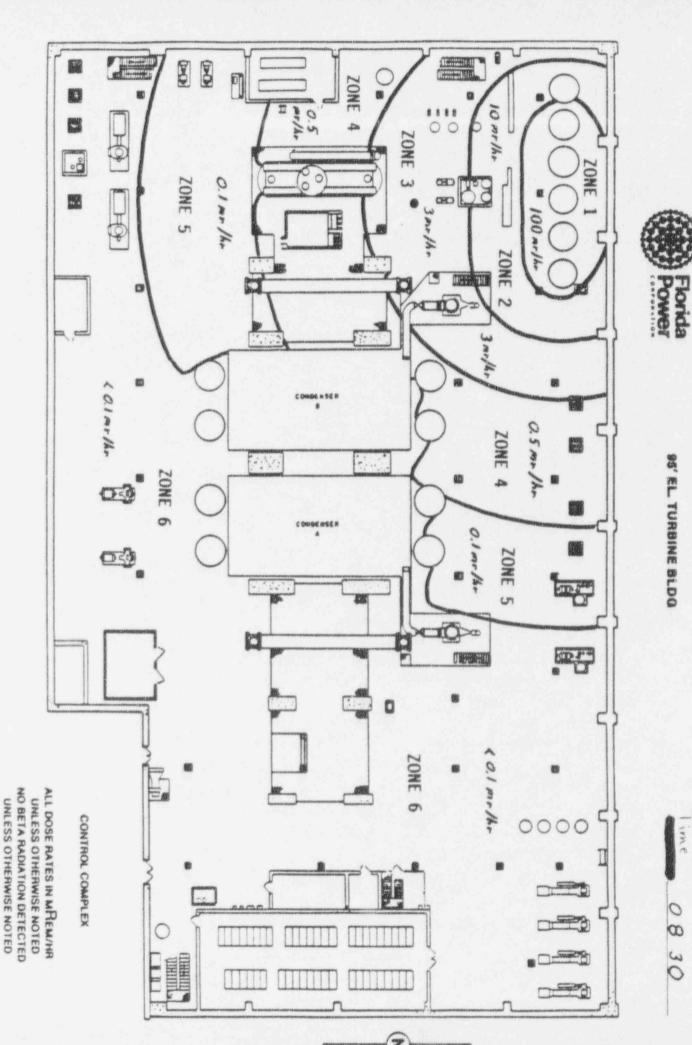
The demins are located in the northwest corner of the 95' elevation.

Both particulate and iodine air activities are at background levels.

Smearable activity is at background levels.

119' INTERMEDIATE BUIDING

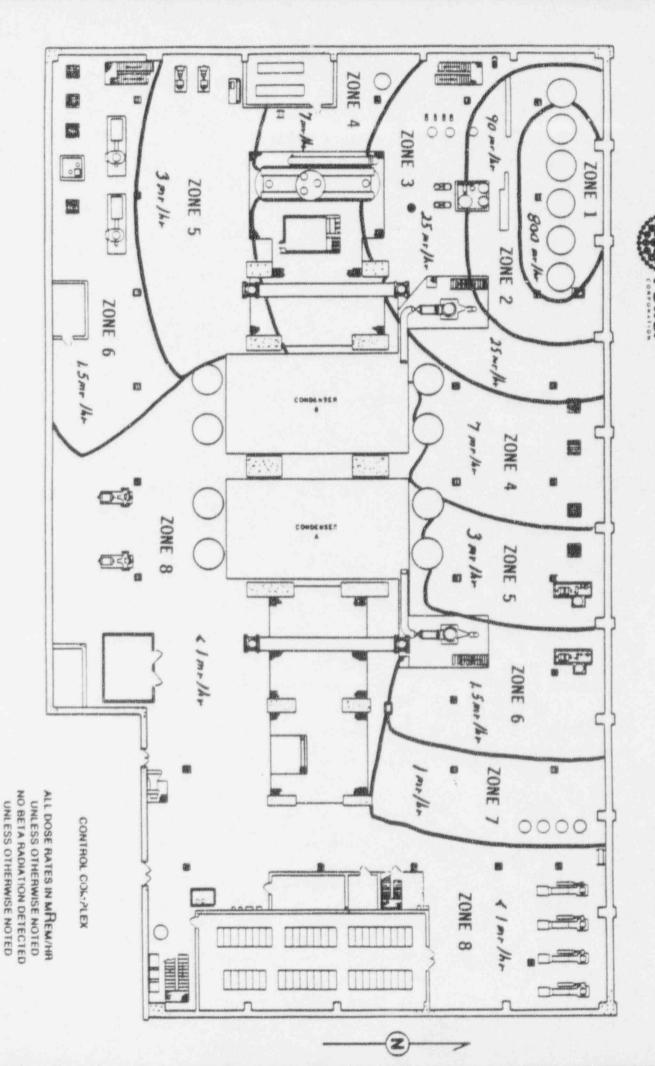
General area dose rate near MSV-33 and associated steamlines is 0.5 mR/hr. Contact dose rate on the safety valve and the steamlines is 6 mR/hr.



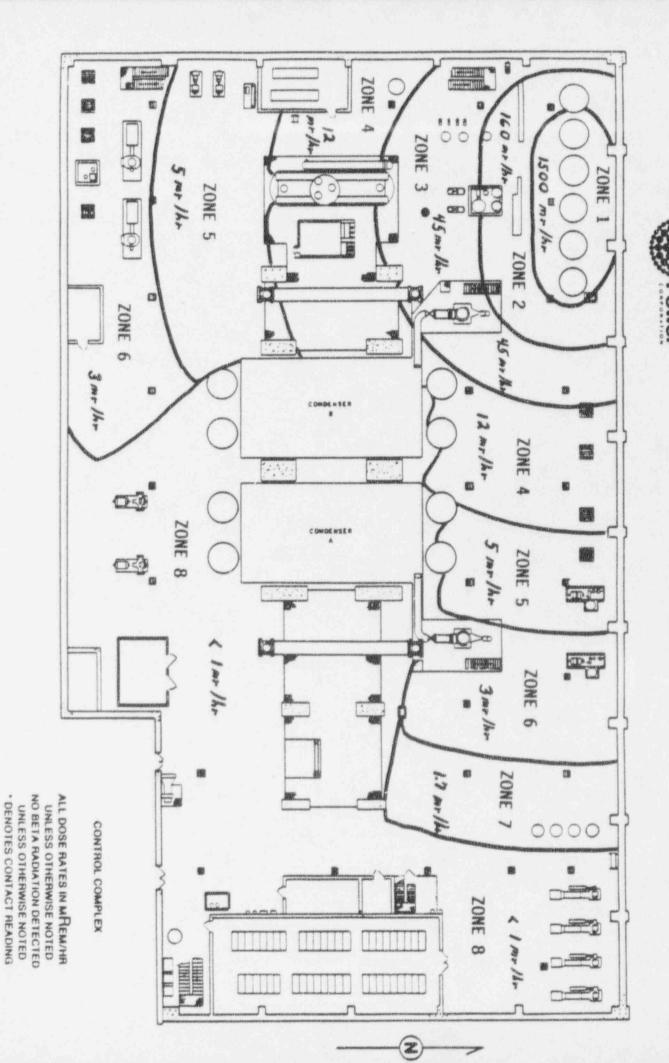
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· DENOTES CONTACT REA"

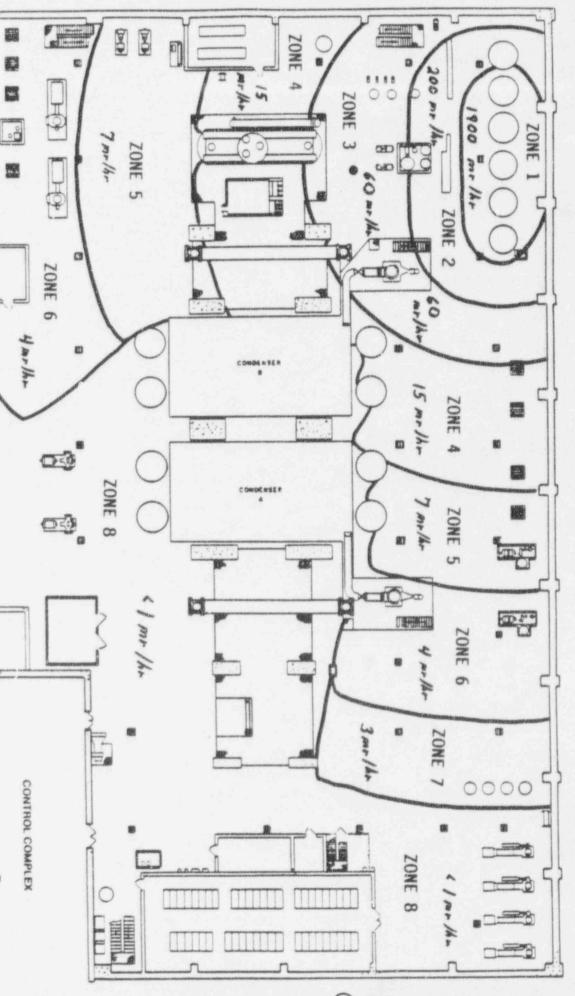
43164 90% 00%



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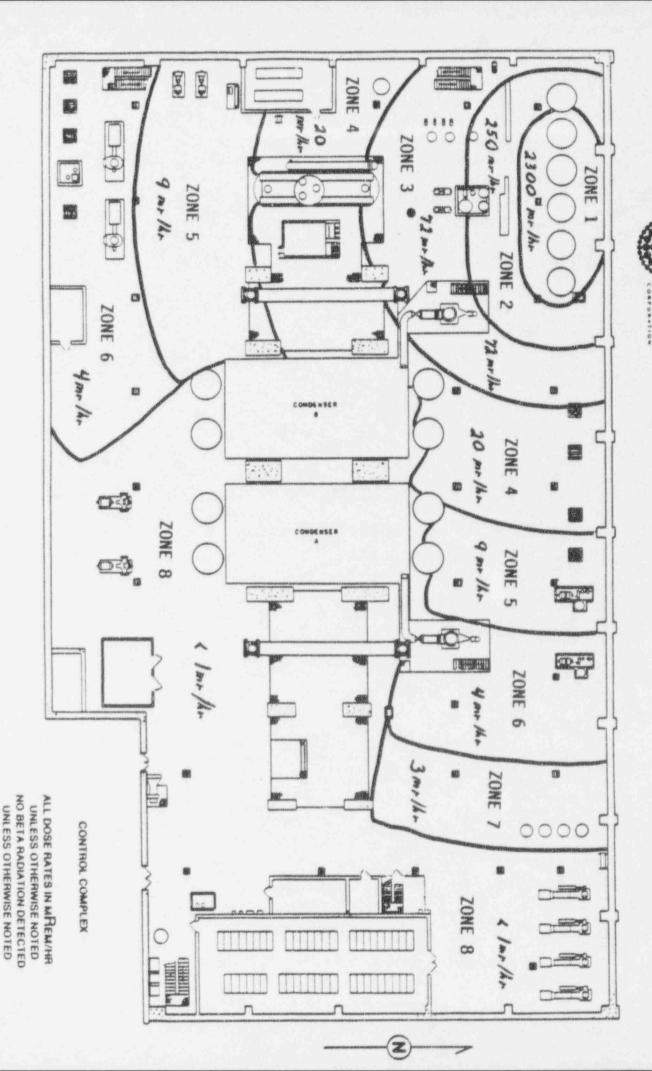
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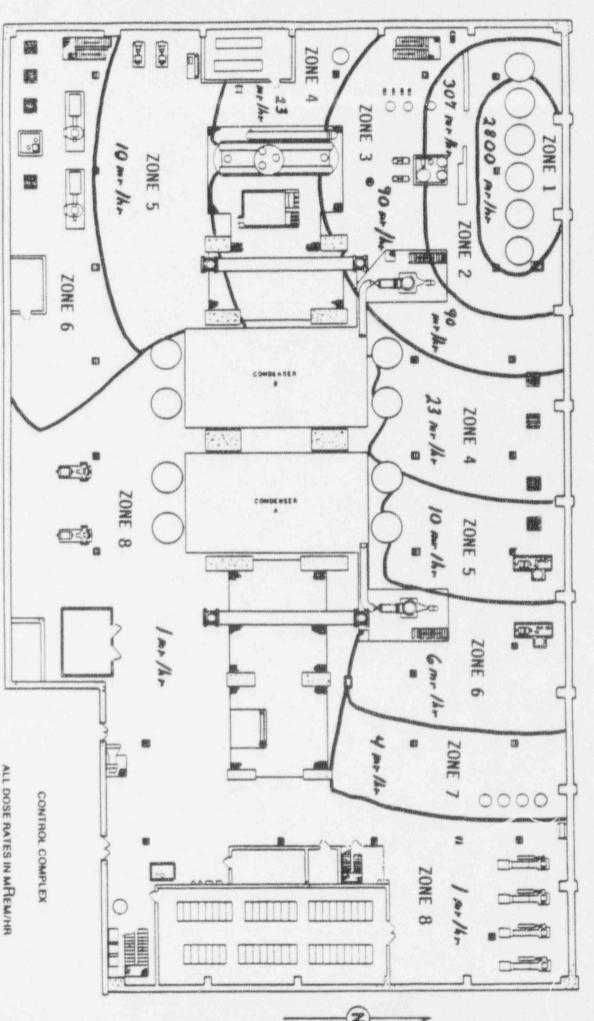
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ALL DOSE RATES IN MHEM/HR

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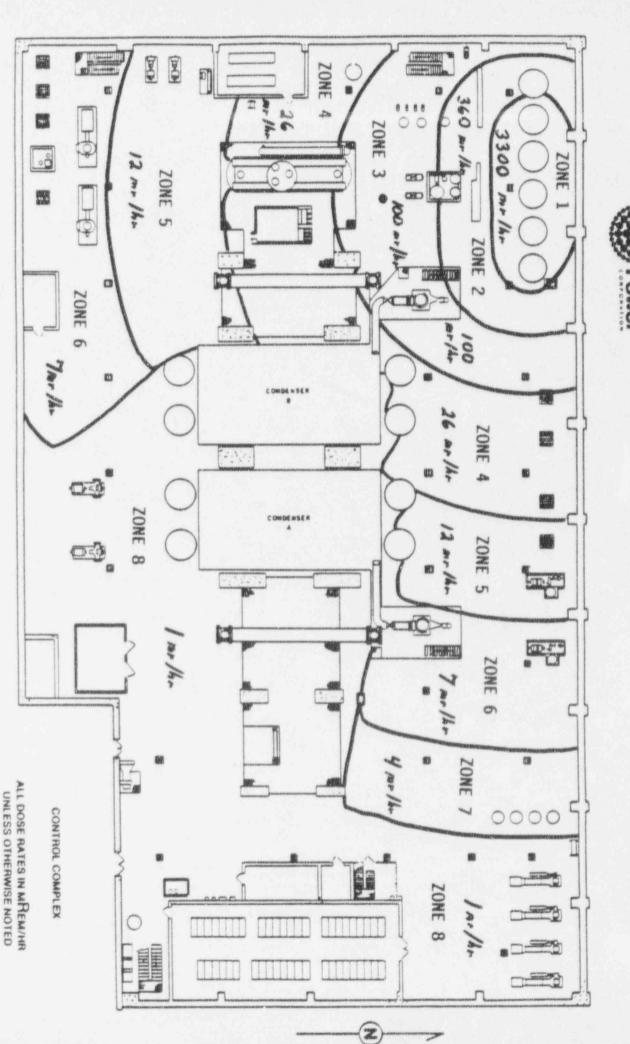


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NO BETA RADIATION DETECTED

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UNLESS OTHERWISE NOTED



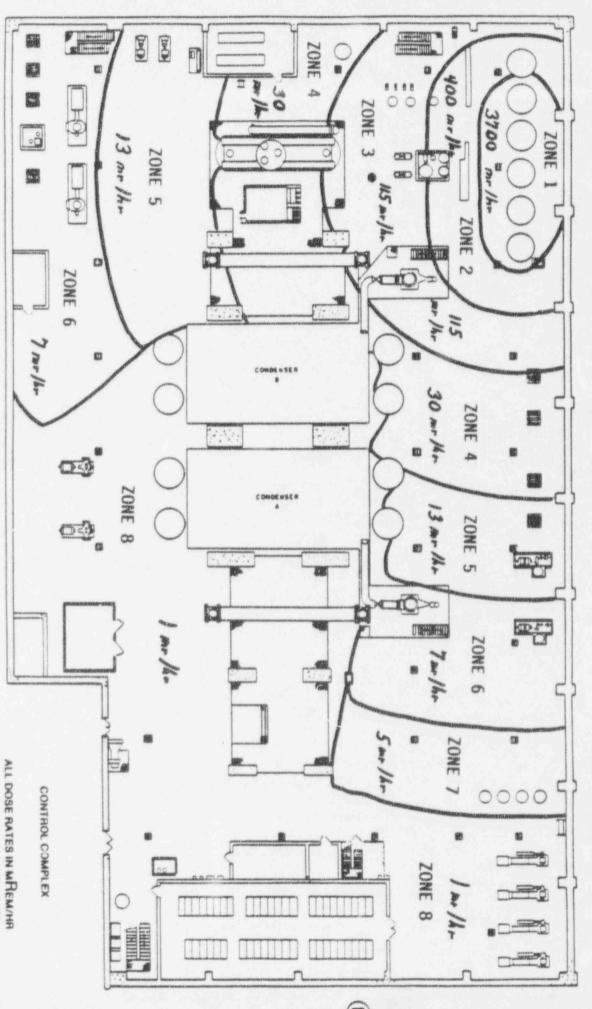
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UNITESS OTHERWISE NOTED



95' EL TURBINE BLDG



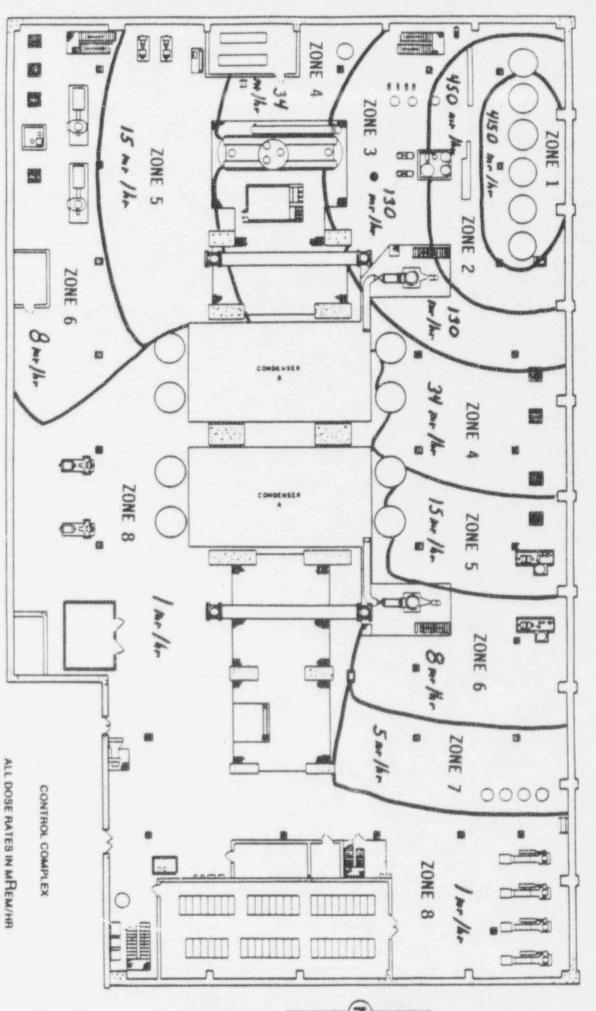


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UNLESS OTHERWISE NOTED

NO BETA RADIATION DETECTED

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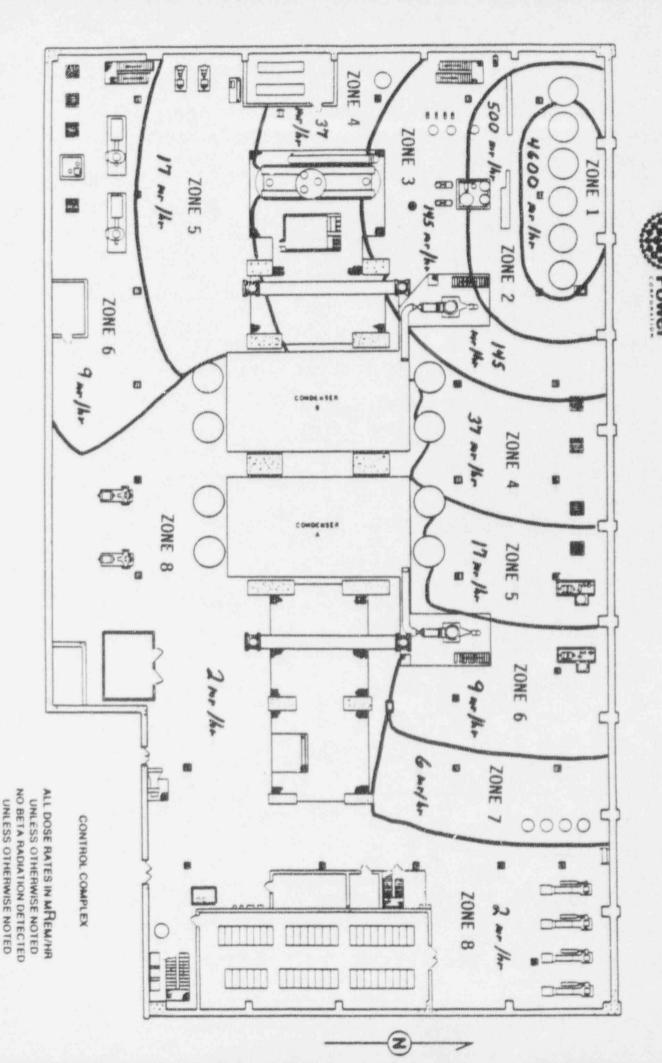


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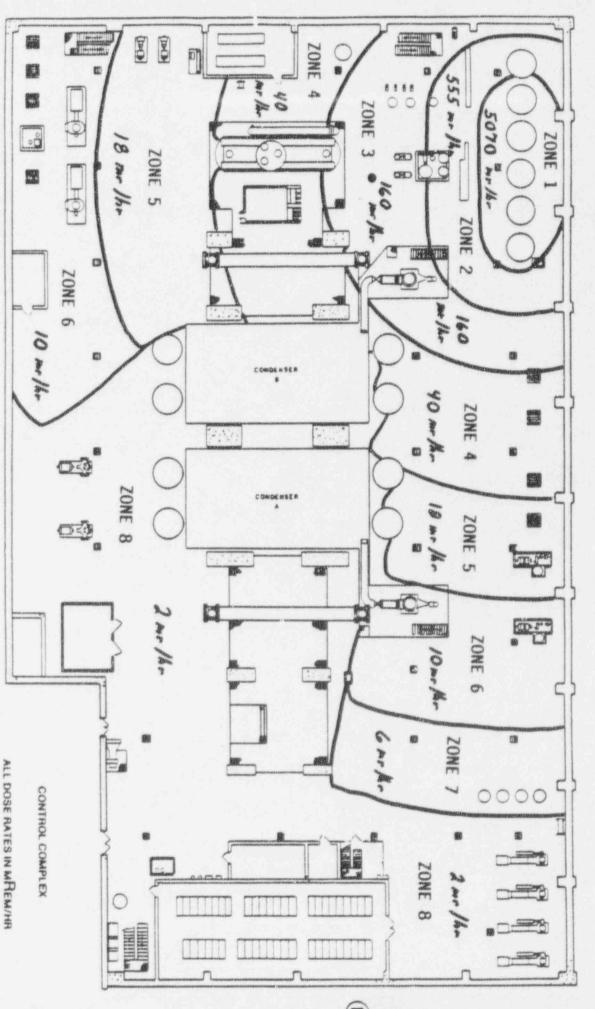
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· DENOTES CONTACT READING

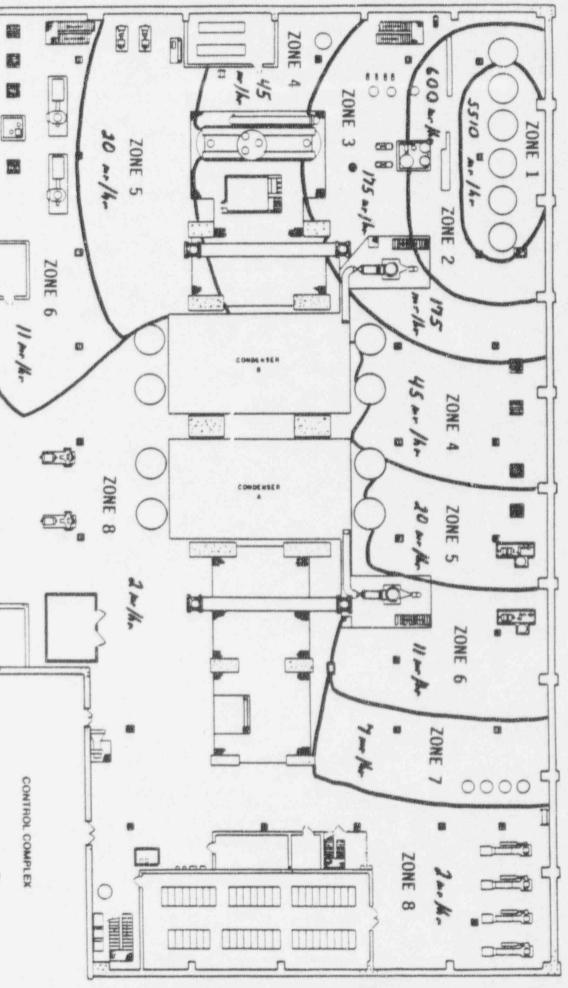
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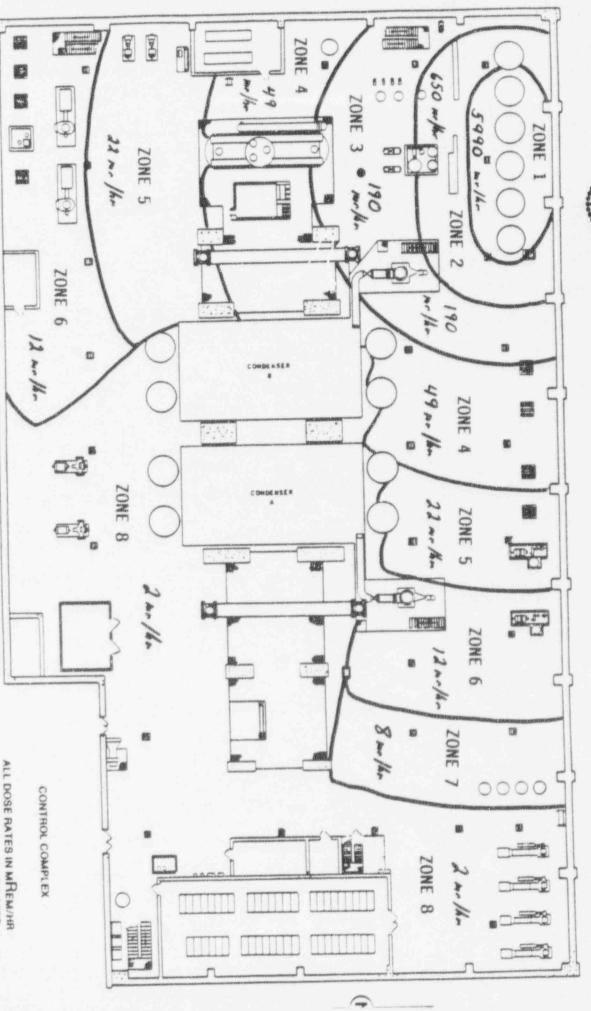
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DENOTES CONTACT READING

UNLESS OTHERWISE NOTED NO BETA RADIATION DETECTED







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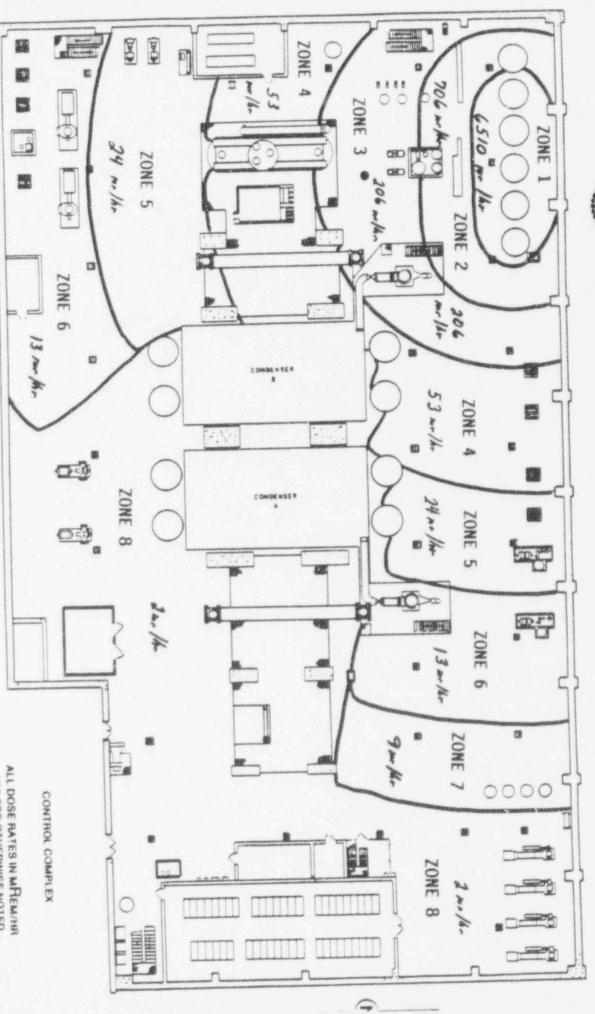
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UNLESS OTHERWISE NOTED



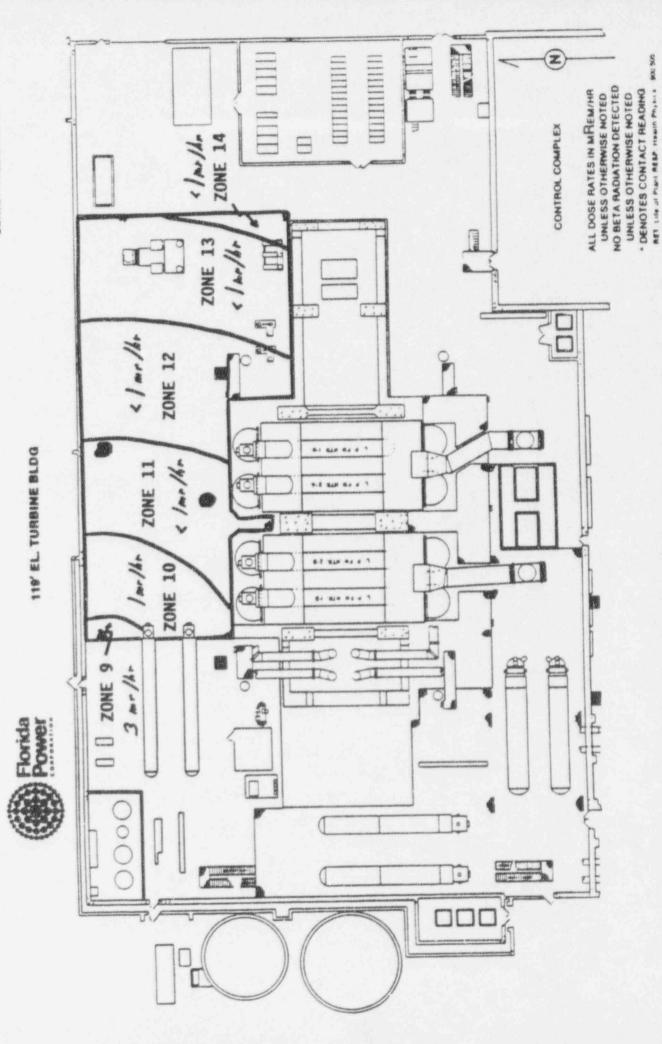
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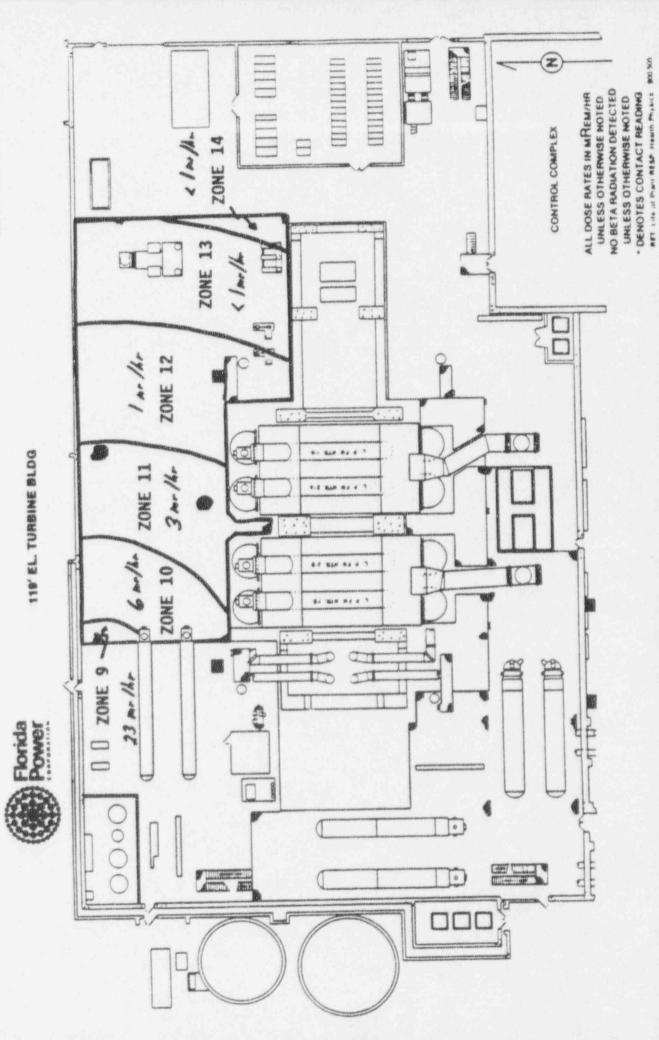


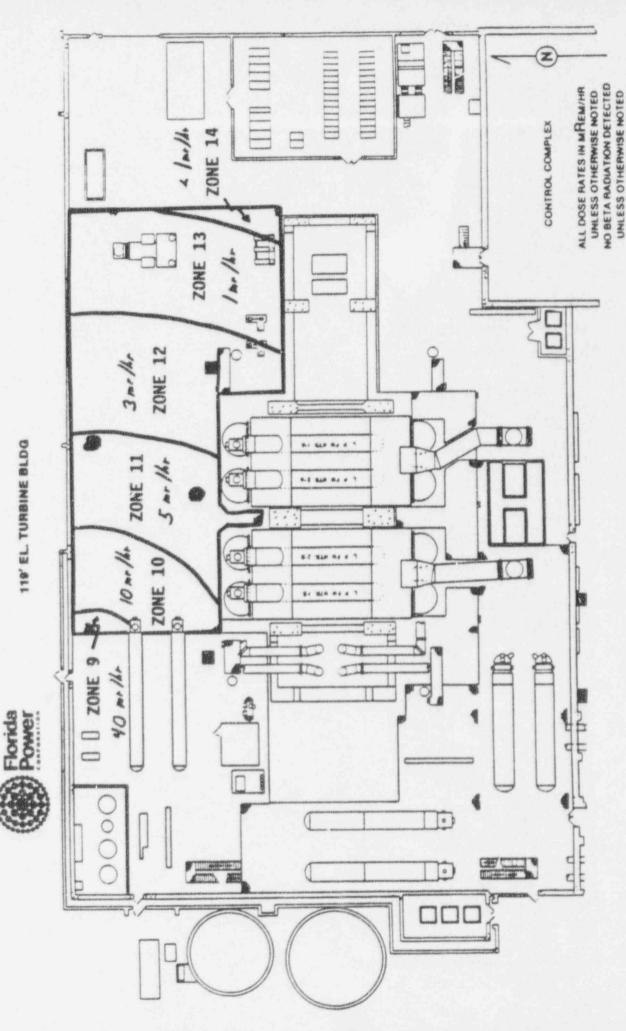
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NO BETA RADIATION DETECTED

UNLESS OTHERWISE NOTED



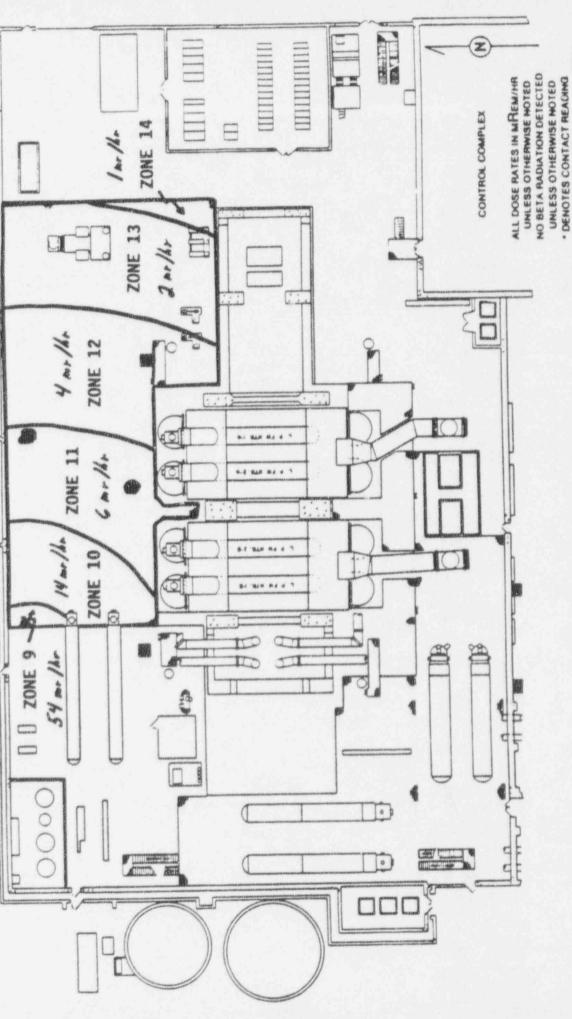




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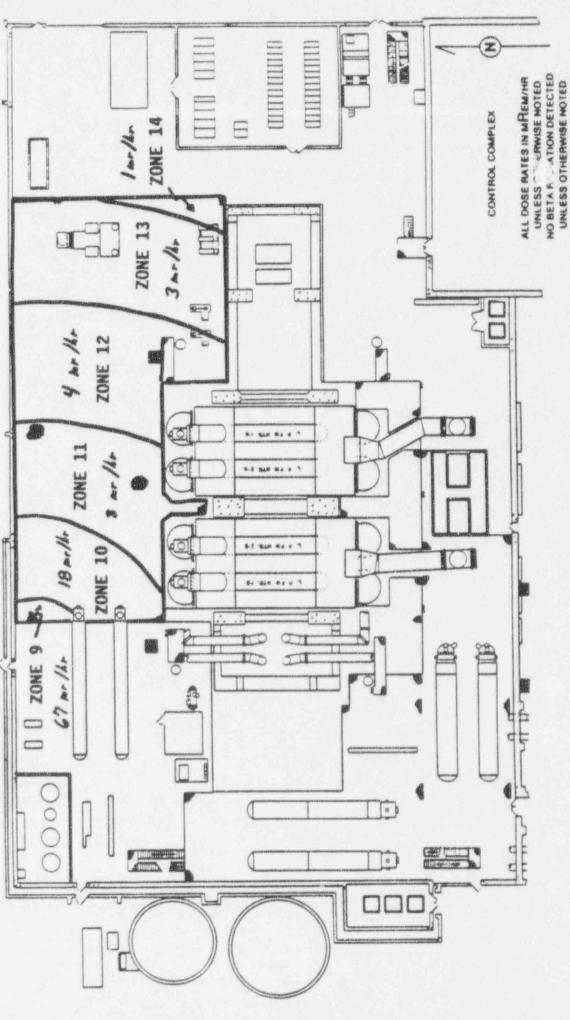




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RET Life of Pract RESP Hearth Physics





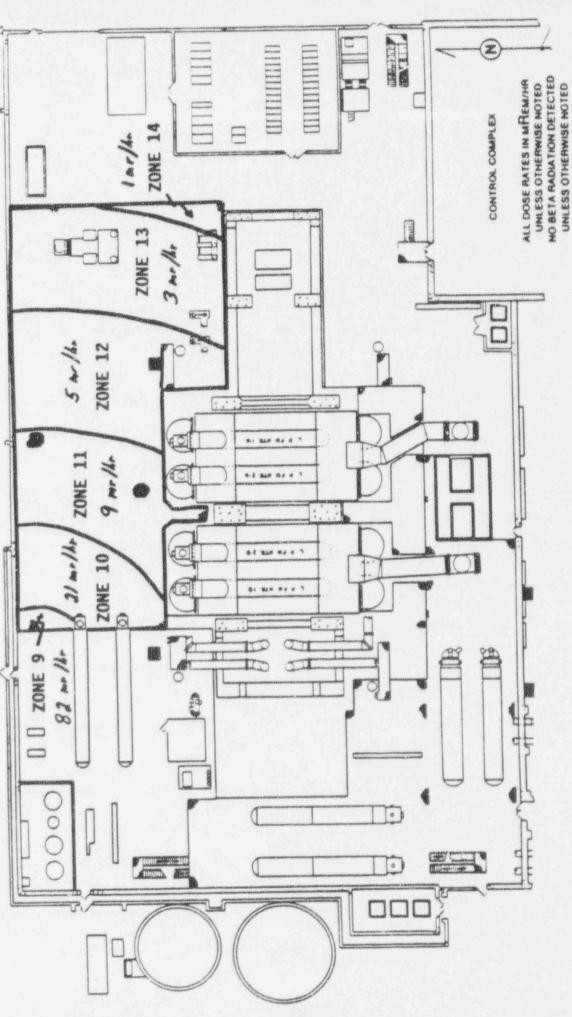
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RET Life of Phant RESP. Health Physica

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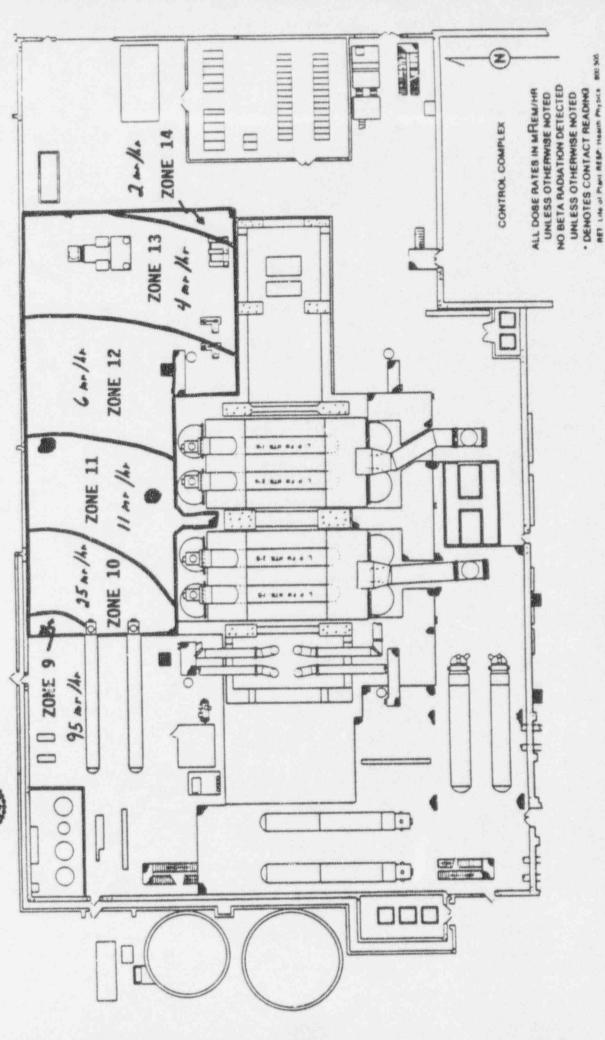


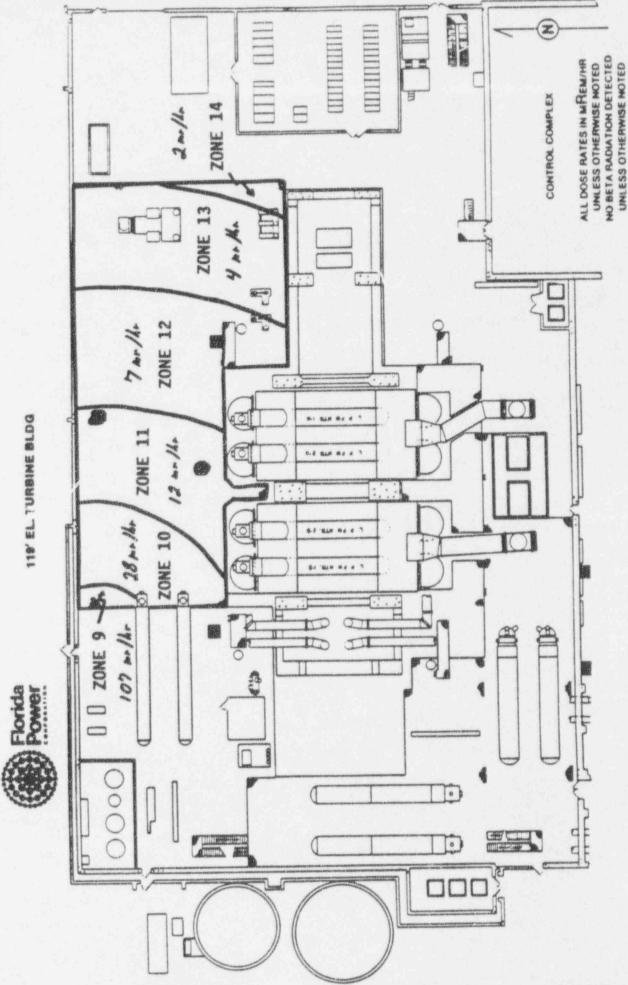


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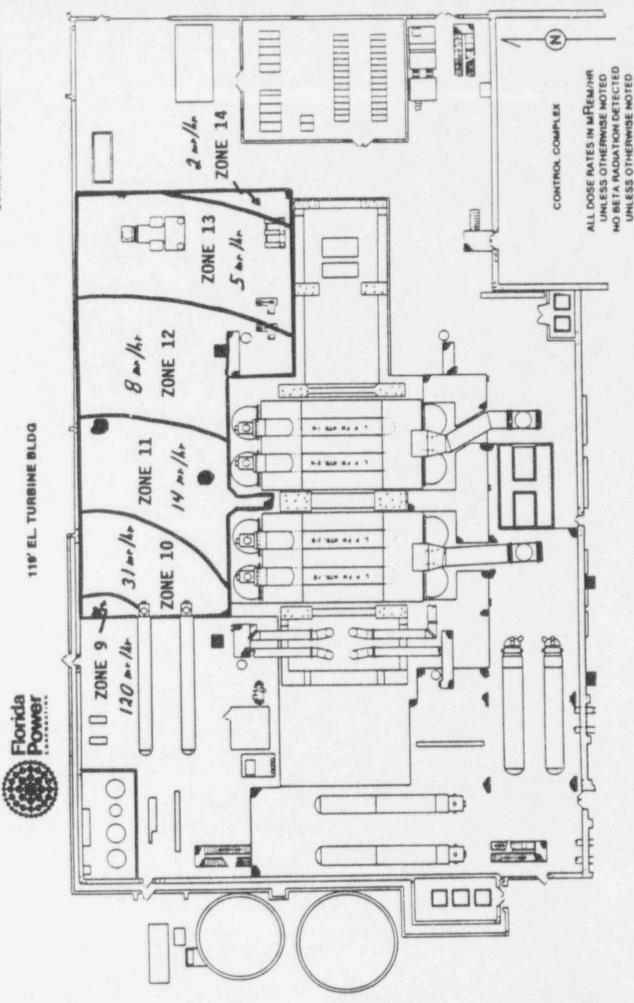






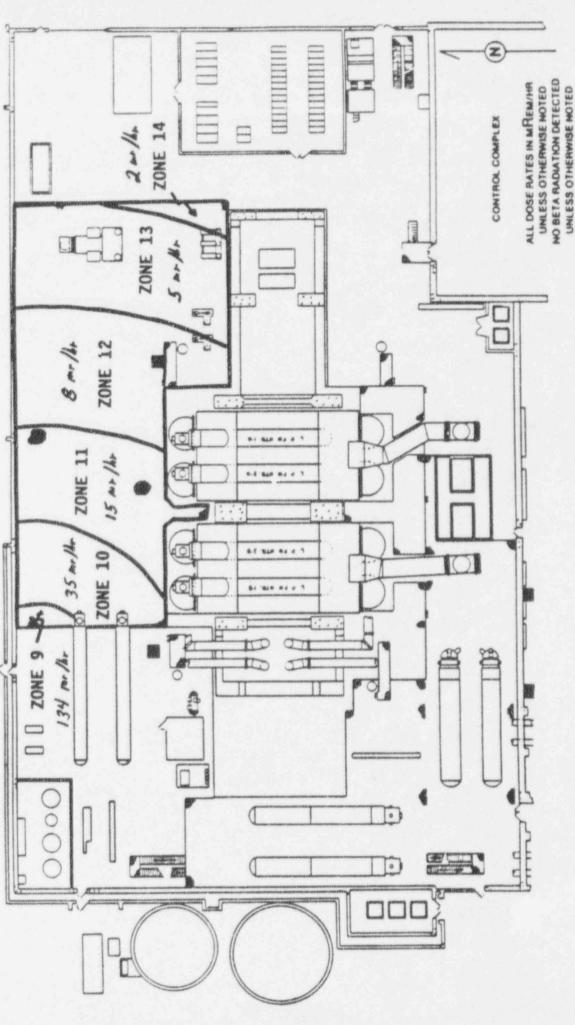
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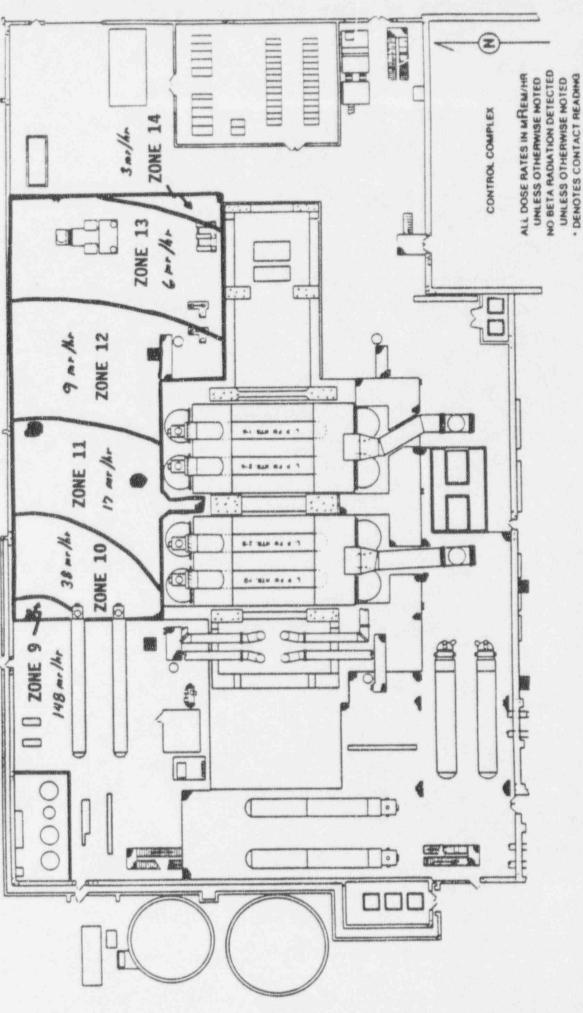
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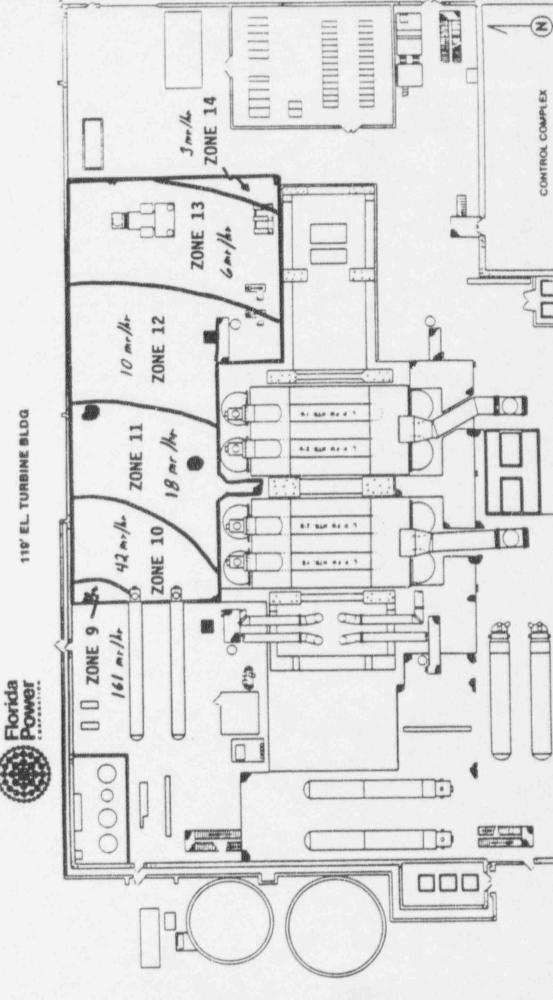




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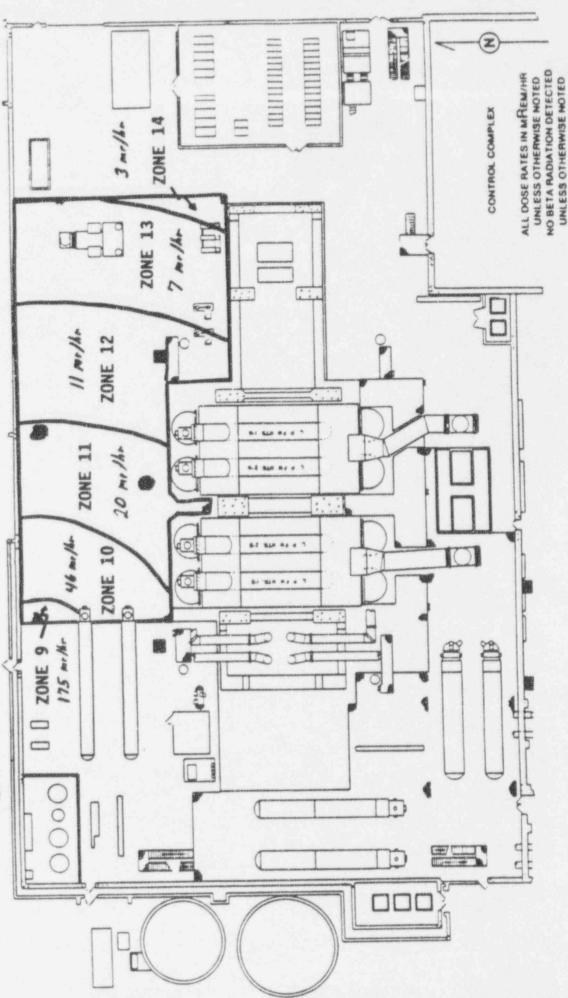
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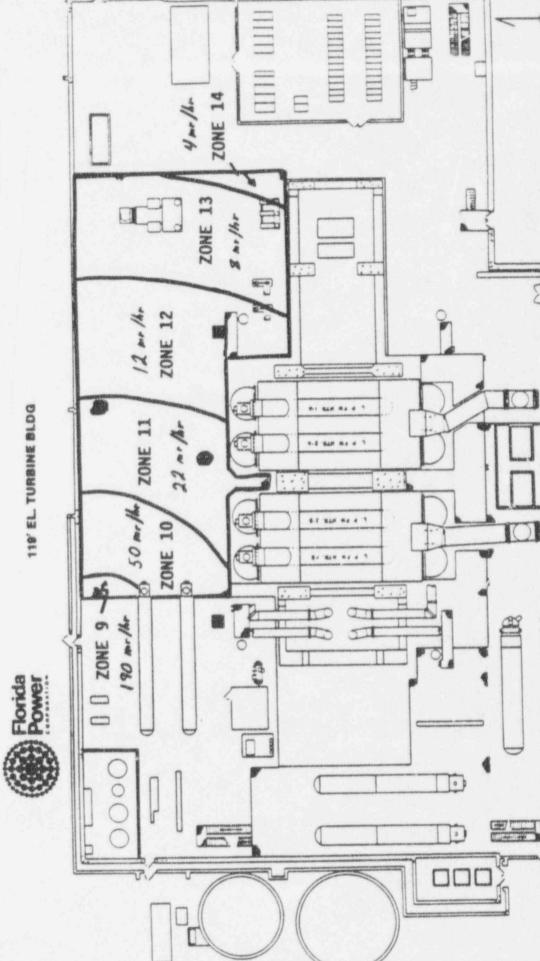
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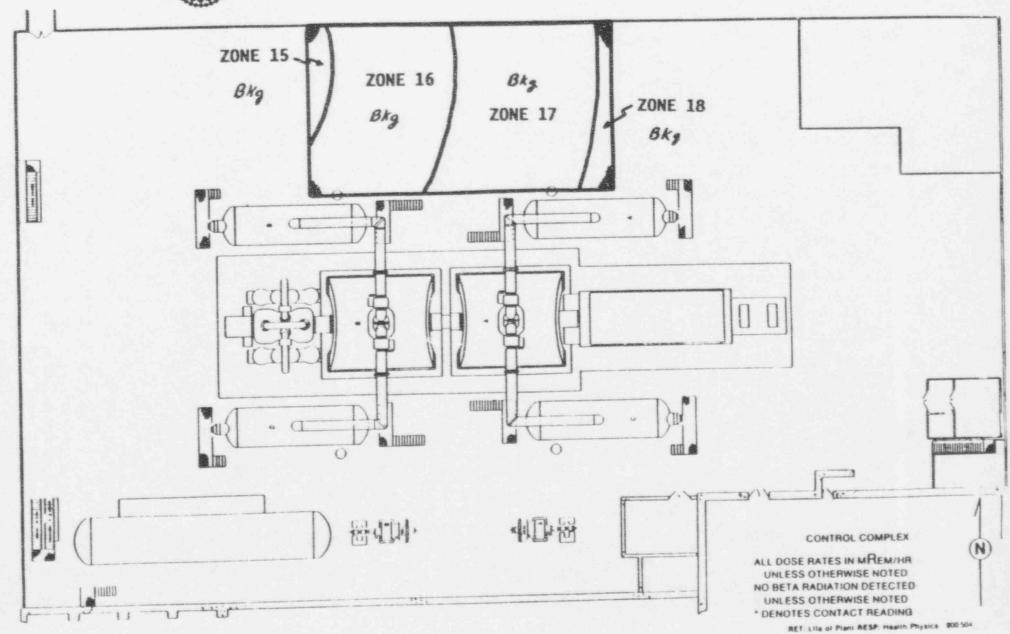
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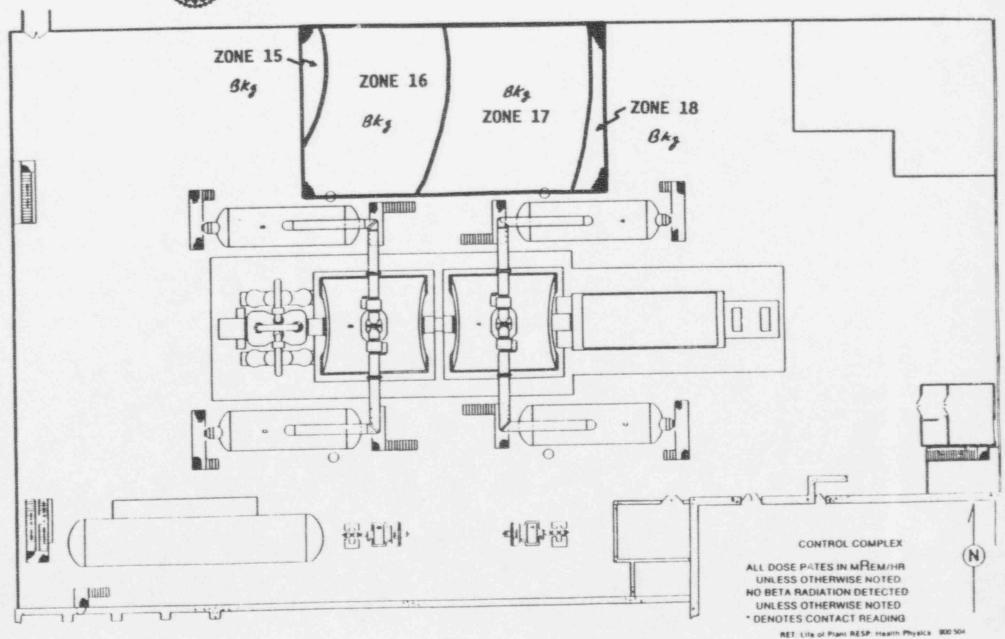
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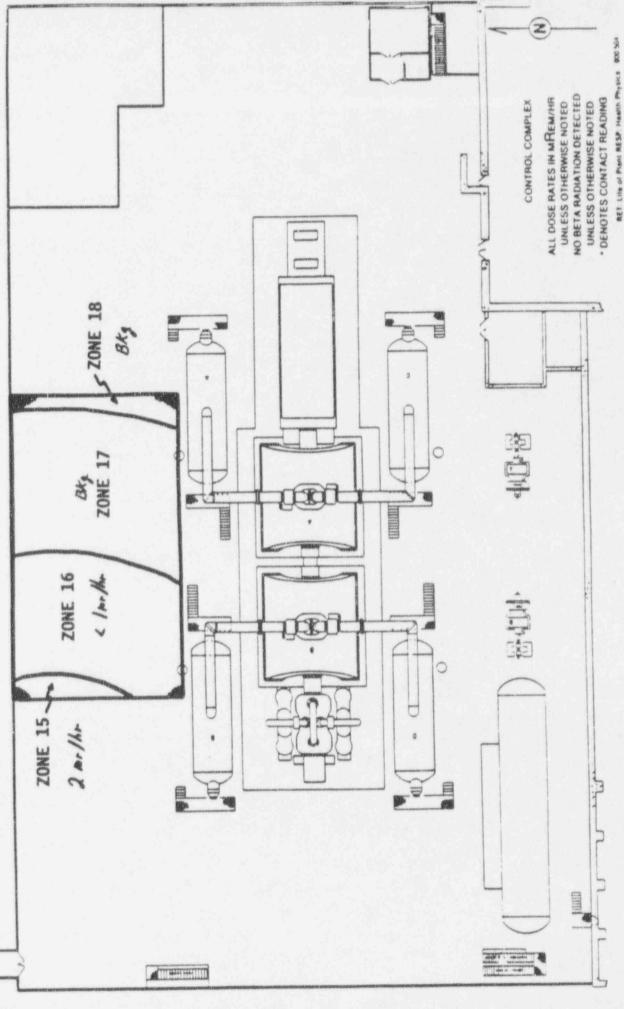
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CONTROL COMPLEX

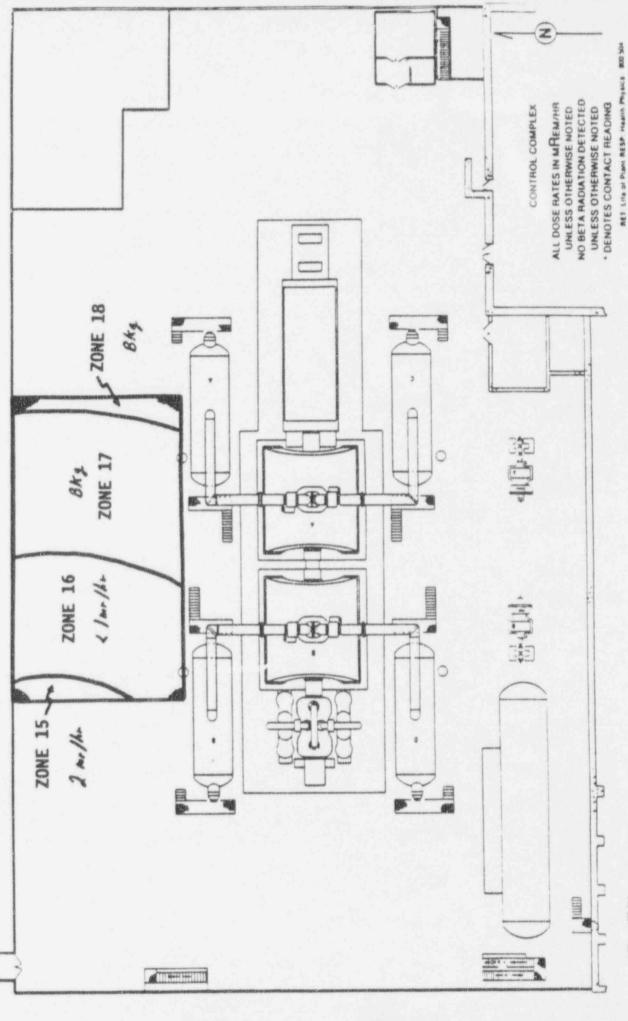




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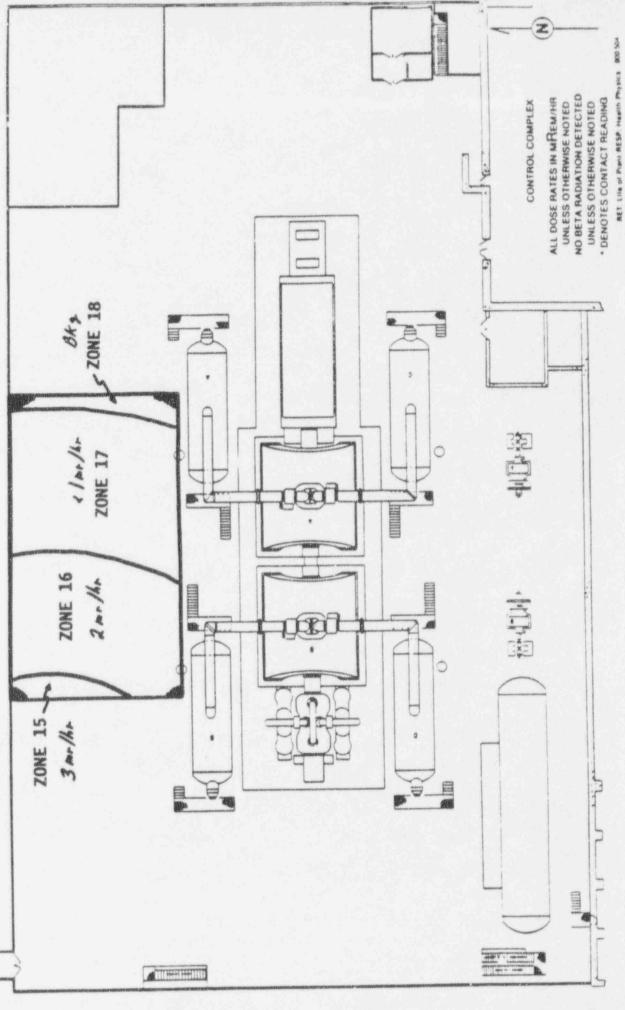
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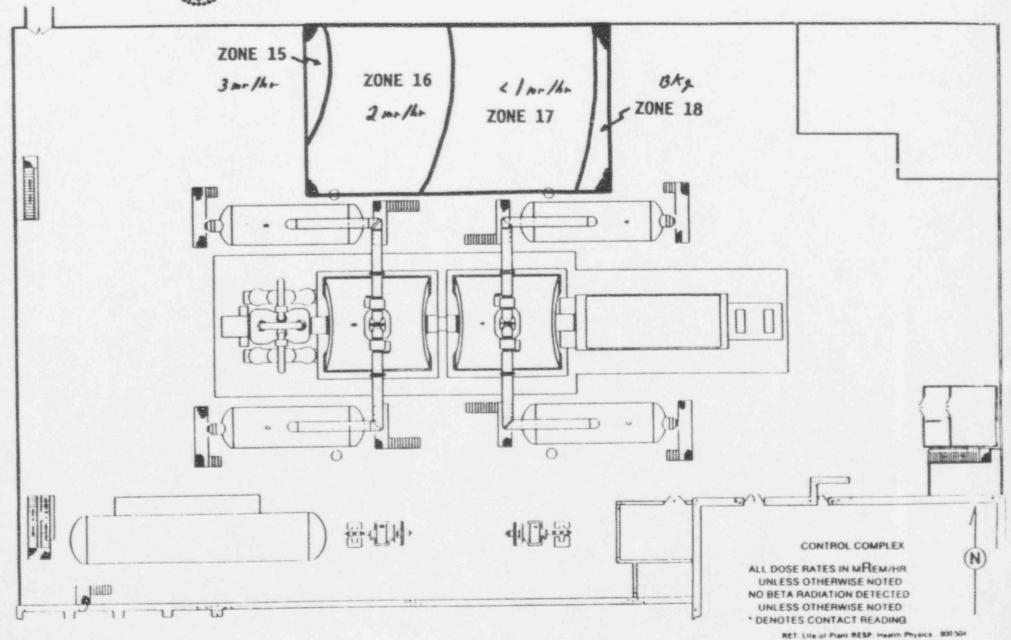
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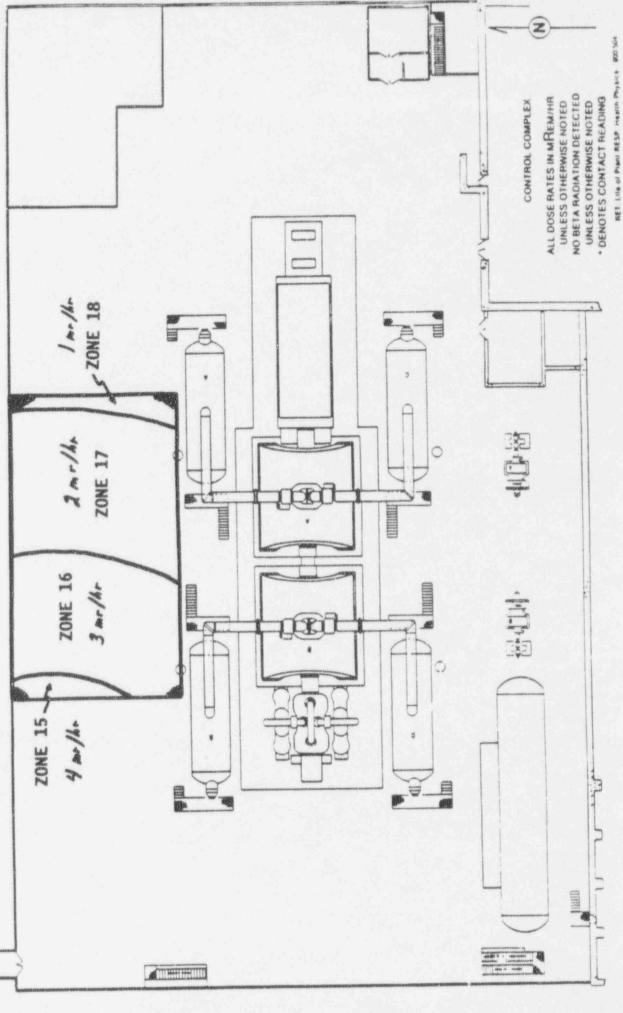
145' EL TURBINE BLDG., OPER FLR.

1100 SURVEY NO.

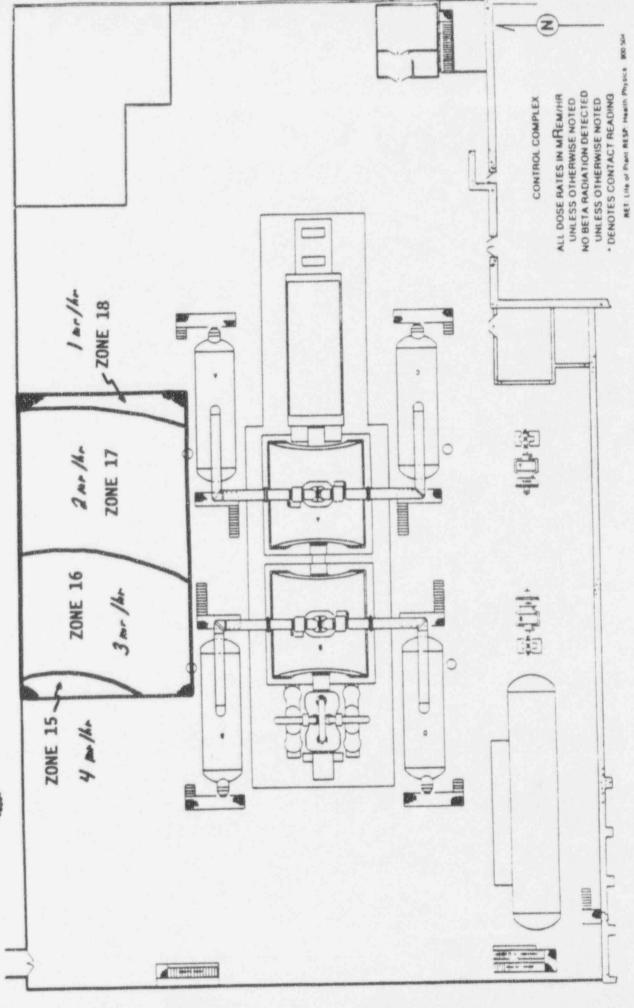


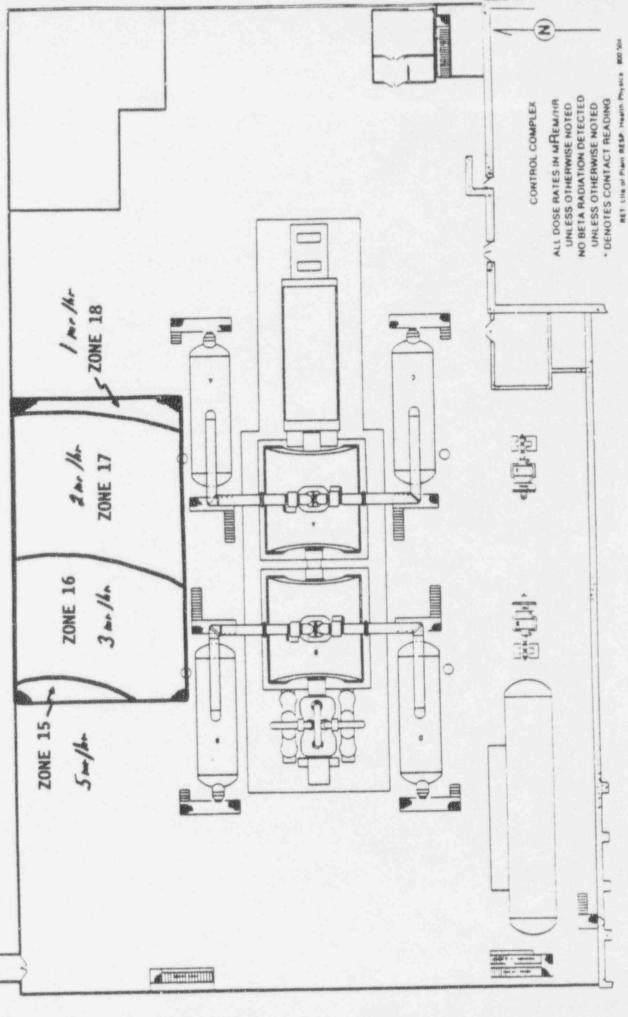
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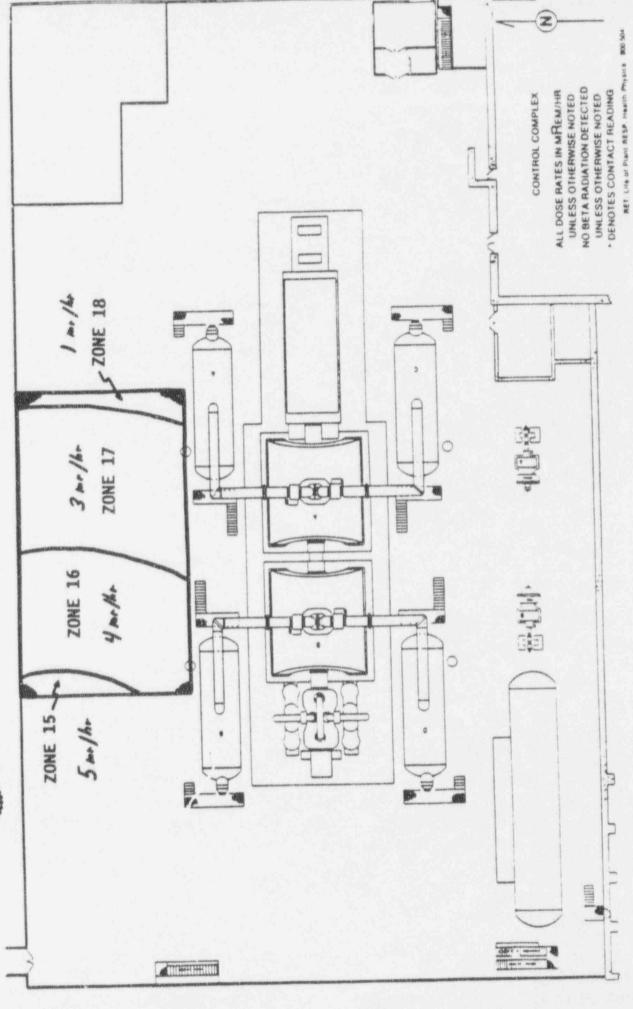


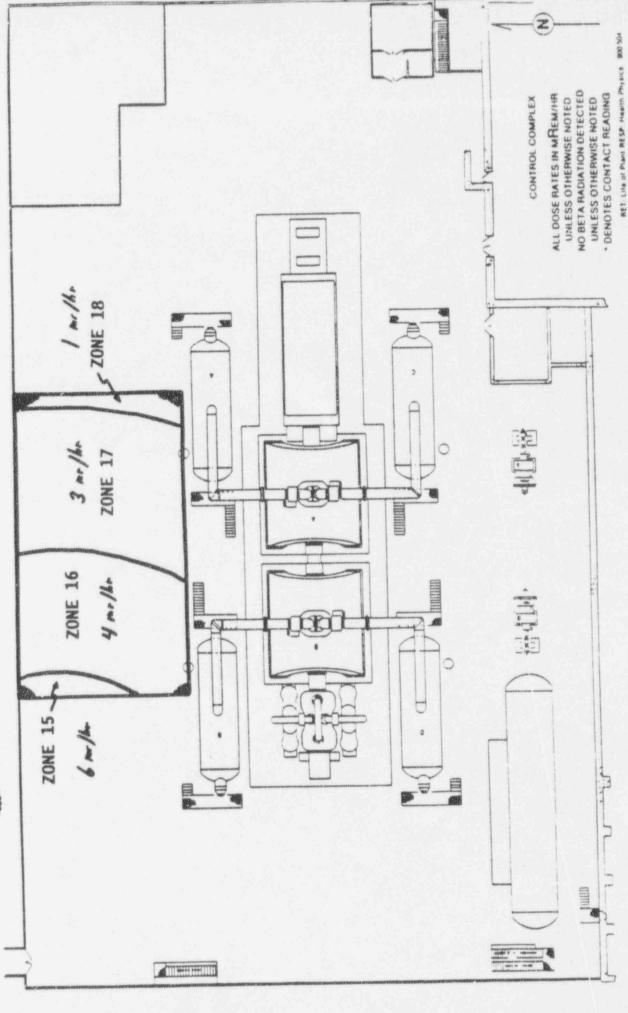
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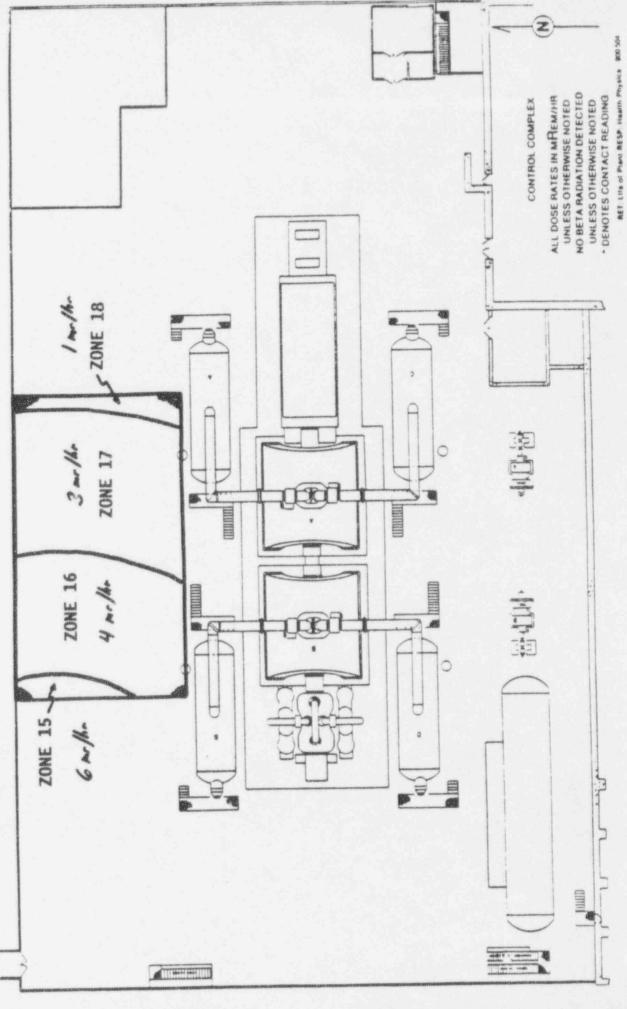


3.88 HPP 202

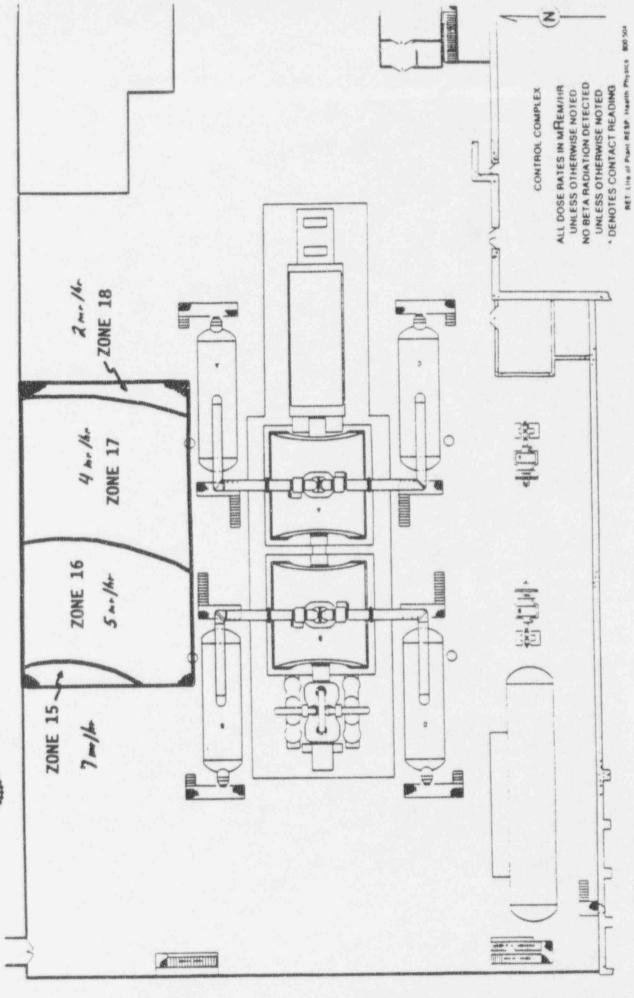




SURVEY NO 1430



1



HPP 202 3168

	KR83M	KR85M	KR85	KR87	KR88	XE131M	XE 133M	XE133	XE 135	1131	1132	1133	1134	1135
1140	4.3E-07	2.2E-06	1.2E-05	8.7E-07	3.5E-06	2.6€-06	4.3E-06	4.0E-04	8.7E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1145	4.5E-07	2.3E-06	1.2E-05	9.0E-07	3.6E-06	2.7E-06	4.5E-06	4.2E-04	9.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1150	4.7E-07	2.3E-06	1.3E-05	9.4E-07	3.8E-06	2.8E-06	4.7E-06	4.3E-04	9.4E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1155	4.7E-07	2.3E-06	1.3E-05	9.3E-07	3.7E-06	2.8E-06	4.7E-06	4.3E-04	9.3E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.08+00
1200	4.6E-07	2.3E-06	1.2E-05	9.2E-07	3.7E-06	2.8E-06	4.6E-06	4.3E-04	9.2E-06	0.0E+00	0.08+00	0.0E+00	0.0E+00	0.0E+00
1205	4.9E-07	2.5E-06	1.3E-05	9.8E-07	3.9E-06	2.9E-06	4.9E-06	4.5E-04	9.8E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1210	5.2E-07	2.6E-06	1.4E-05	1.0E-06	4.1E-06	3.1E-06	5.2E-06	4.8E-04	1.0E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
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1230	5.3E-07	2.6E-06	1.4E-05	1.1E-06	4.2E-06	3.2E-06	5.3E-06	4.9E-04	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
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1305	5.3E-07	2.7E-06	1.4E-05	1.1E-06	4.2E-06	3.2E-06	5.3E-06	4.9E-04	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
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1340	5.0E-07	2.5E-06	1.4E-05	1.0E-06	4.0E-06	3.0E-06	5.0E-06	4.7E-04	1.0E-05	0.0E+00	0.0E+00	0.0E+00	0.08+00	0.0E+00
1345	5.0€-07	2.5E-06	1.3E-05	9.9E-07	4.0E-06	3.0E-06	5.0E-06	4.6E-04	9.9E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
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1355	5.0€-07	2.5E-06	1.4E-05	1.0E-06	4.0E-06	3.0E-06	5.0E-06	4.6E-04	1.0E-05	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1400	4.9E-07	2.5E-06	1.3E-05	9.9E-07	3.9E-06	3.0E-06	4.9E-06	4.5E-04	9.9E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1405	5.0E-07	2.5E-06	1.3E-05	9.9E-07	4.0E-06	3.0E-06	5.0E-06	4.6E-04	9.9E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.9E+00
1410	5.1E-07	2.6E-06	1.4E-05	1.0E-06	4.1E-06	3.1E-06	5.1E-06	4.7E-04	1.0E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1415	5.1E-07	2.5E-06	1.4E-05	1.0E-06	4.1E-06	3.0E-06	5.1E-06	4.7E-04	1.0E-05	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1420	4.9E-07	2.5E-06	1.3E-05	9.8E-07	3.9E-06	2.9E-06	4.9E-06	4.5E-04	9.8E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1425	4.7E-07	2.4E-06	1.3E-05	9.4E-07	3.8E-06	2.8E-06	4.7E-06	4.3E-04	9.4E-06	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0E+00

							1992 EXER	1992 EXERCISE RM-AZ PASS DATA	PASS DATA						
		KR83#	KR85M	KR85	KR87	KR86	XE131M	XE133M	XE133	XE135	1131	1132	1133	1134	1135
	0830	6.8E-07	3.46-06	1.8E-05	1,48-06	5.4E-06	4.1E-06	6.88-06	6.2E-04	1.4E-05	0.06+00	0.06+00	0.06+00	0 05+00	0 05+00
	0835	9.4E-07	4.7E-96	2.5E-05	1.96-06	7.5E-06	5.6E-06	90-37-6	8.65-04	1.96-05	0 0F+00	0 06+00	0 05 +00	0 06+00	0 06+00
	0840	2.1E-07	1.0E-96	5.6E-06	4.28-07		1.2E-06	2.1E-06	1.96-04	4.2E-06	0.0E+00	0.0E+00	0.06+00	0.0F+00	0.05+00
	0845	1.0E-06	5.1E-06	2.8E-05	2.0E-06	8.2E-06	6.1E-06	1.0€-05	9.48-04	2.06-05	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.06+00
	0880	9.98-07	5.0E-06	2.7E-05	2.0E-06	7.9E-06	6.0E-06	90-36-6	9.25-04	2.0E-05	0.0E+00	0.0€+00	0.0E+00	0.0€+00	0.0E+00
	0855	5.8E-07	2.98-06	1.6€-05	1.2E-06	4.68-06	3.5E-06	5.8E-06	5.38-04	1.2E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0060	8.5E-07	4.2E-06	2.3E-05	1.7E-06	6.8E-06	5.1E-06	8.5E-06	7.85-04	1.7E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00
	5060	8.0E-07	4.0E-06	2.2E-05	1.6E-06	90-37-9	4.8E-06	8.06-06	7.4E-04	1.66-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0100	7.6E-07	3.88-06	2.0E-05	1.5E-06	6.1E-06	4.5E-06	7.66-06	7.06-04	1.5E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0915	7.3E-07	3.66-06	2.0E-05	1.5E-06	5.88-06	4.48-06	7.36-06	6.7E-04	1.56-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0F+00
	0260	7.1E-07	3.6€-06	1.9E-05	1.4E-06	5.7E-06	4.35-06	7.15-06	6.5E-04	1.4E-05	0.0€+00	0.05+00	0.0E+00	0.0E+00	0.0E+00
	0925	6.8E-07	3.4E-06	1.8E-05	1.46-06	5.4E-06	4.1E-06	6.8E-06	6.2E-04	1.46-05	0.0€+00	0.0E+30.0	0.0E+00	0.0E+00	0.0E+00
	0930	6.5E-07	3.36-06	1.86-05	1.3E-06	5.2E-06	3.9E-06	6.5E-06	6.0E-04	1.3E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0935	6.3E-07	3.2E-06	1.7E-05	1.36-06	5.16-06	3.8E-06	6.3E-06	5.8E-04	1.38-05	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0760	6.0E-07	3.0€-06	1.6E-05	1.2E-06	4.8E-06	3.66.06	90-30.9	5.68-04	1.28-05	0.06+00	0.0€+00	0.0E+00	0.0E+00	0.0E+00
	6945	4.3E-07	2.1E-06	1.1E-05	8.58-07	3.46-06	2.6E-06	4.36-06	3.94-04	8.5E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0560	4.2E-07	2.1E-06	1.16-05	8.5E-07	3.46-06	2.5E-06	4.2E-06	3.96-04	8.5E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0€+00
	0955	4.3E-07	2.1E-06	1.2E-05	8.66-07	3.4E-06	2.6E-06	4.3E-06	3.96-04	8.66-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0€+00
	1000	4.3E-07	2.1E-06	1.16-05	8.56-07	3.46-06	2.6E-06	4.3E-06	3.96-04	8.5E-06	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00
	1005	3.6€-07	1.8E-06	90-39.6	7.1E-07	2.9E-06	2.1E-06	3.65-06	3.38-04	7.1E-06	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00
9	GAS 1010	5.2E-07	2.6E-06	1.46-05	1.0E-06	4.1E-06	3.1E-06	5.2E-06	4.85-04	1.06-05	0.06+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	1N 1015	5.3E-07	2.7E-06	1.4E-05	1.16-06	4.3E-06	3.2E-06	5.3E-06	4.9E-04	1.11-05	0.0E+00	0.0E+00	0.0E+69	0.0E+00	0.0E+00
PL	PLACE 1020	5.4E-07	2.7E-06	1.5E-05	1.16 08	4.3E-06	3.3E-06	5.4E-06	5.0E-04	1.1E-05	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0E+00
	1025	5.5E-07	2.7E.06	1.56-05	1.1E-06	4.4E-06	3.3E-06	5.5E-06	5.06-04	1.1E-05	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0€+00
	1030	5.5E-07	2.8E-06	1.5E-05	1.1E-06	4.4E-06	3.3E-06.	5.5E-06	5.1E-04	1.16-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0€+00
	1035	5.5E-07	2.85-06	1.5E-05	1,16-06	4.48-06	3.3E-06	5.5E-06	5.1E-04	1.1E-05	0.0E+00	0.0€+00	0.0E+00	0.0E+00	0.0E+00
	1040	5.5E-07	2.8E-06	1.5E-05	1, 1E-06	4.4E-06	3,3€-06	5.5E-06	5.1E-04	1.1E-05	0.0E+00	0.0E+00	0.0€+00	0.05+00	0.0E+00
	1045	5.5E-07	2.8E-06	1.56-05	1.1E-06	4.4E-06	3.3E-06	5.5E-06	5.1E-04	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0€+00	0.0E+00
	1050	5.6E-07	2.8E-06	1.56-05	1.1E-06	4.5E-06	3.4E-06	5.6E-06	5.2E-04	1.18-05	0.0€+00	0.06+00	0.06+00	0.0€+00	0.0E+00
	1055	5.7E-07	2.96-06	1.56-05	1.1E-06	4.68-06	3.48-06	5.7E-06	5.3E-04	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.08+00	0.0E+00
	1100	5.6E-07	2.8E-06	1.5E-05	1.18-06	4.5E-06	3.4E-06	5.6E-06	5.1E-04	1.1E-05	0.06+00	0.0E+00	0.06+00	0.0€+00	0.0E+00
	1105	5.5E-07	2.7E-06	1.5E-05	1.15.06	4.4E-06	3.3E-06	5.5E-06	5.0E-04	1.16-05	0.0E+00	0.0€+00	0.0€+00	0.0E+00	0.0E+00
	1110	5.58-07	2.86-06	1.5E-05	1.1E-06	4.4E-06	3.36-06	5.5E-06	5.1E-04	1.1E-05	0.0E+00	0.0E+00	0.06+00	0.0E+00	0.0€+00
	1115	5.1E-07	2.65-06	1.48-05	1.0E-06	4.1E-06	3.1E-06	5.1E-06	4.78-04	1.0E-05	0.0E+00	0.0€+00	0.06+00	0.0E+00	0.0E+00
	1120	5.0E-07	2.5E-06	1.4E-05	1.0E-06	4.0E-06	3.0E-06	5.0E-06	4.6E-64	1.06-05	0.0E+00	0.0€+00	0.0E+00	0.0E+00	0.0€+00
	1125	5.28.07	2.6E-06	1.4E-05	1.0E-06	4.1E-06	3.1E-06	5.2E-06	4.8E-04	1.0E-05	0.0E+00	0.0€+00	0.05+00	0.0E+00	0.0E+00
	1130	4.48-07	2.2E-06	1.2E-05	8.7E-07	3.5E-06	2.6E-06	4.4E-06	4.0E-04	8.7E-06	0.0E+00	0.0€+00	0.0E+00	0.0E+00	0.0€+00
	1135	4.3E-07	2.2E-06	1.2E-05	8.7E-07	3.5E-06	2.6E-06	4.36-06	4.0E-04	8.7E-06	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

1992 EXERCISE RCS ISOTOPIC (uCI/CC)

KR83M	5.7E-03
KR85M	2.8E-02
KR85	1.5E-01
KR87	1.1E-02
KR88	4.5E-02
XE131M	3.4E-02
XE133M	5.7E-02
XE133	5.2E+00
XE135	1.1E-01
I131	2.6E-01
I132	8.3E-02
I133	2.7E-01
1134	3.2E-02
I135	1.4E-01

FORMULAS AND ASSUMPTIONS FOR FIELD MONITORING DATA

WHOLE BODY DOSES

Open window readings are two times that of closed window readings when in the plume.

CHILD THYROID DOSES

The following steps should be taken to determine child thyroid dose rates, I-131 concentrations in uCi/cc, and gross CPM values for 50 and 20 cubic feet are samples:

- A. Use the RADDOSE-IV dose assessment model to determine child thyroid dose rates.
- B. Divide the mR/hr by the dose factor for the accident type. The result will be iodine activity in uCi/cc.

WGDT Dose Factor = 5.43E8 LOCAN Dose Factor = 7.72E8 LOCOG Dose Factor = 3.49E8 LOCAC Dose Factor = 3.49E8 FHA Dose Factor = 1.57E9 SGTRN Dose Factor = 7.82E8 SGTRG Dose Factor = 3.49E8 SGTRC Dose Factor = 3.49E8

C. Use the uCi/cc value obtained step B to determine the gross CPM for 50 and 20 cubic feet air samples using the following formula:

gross CPM =
$$\frac{(uCi/cc)(eff)(cu.ft.)(28317)(2.22E6)}{(F.E.F.)}$$
 + BKG

$$uCi/cc = \frac{(net cpm)(F.E.F.)}{(eff.)(28317)(cu.ft.)(2.22E6)}$$

Where:

eff = 0.0015 for charcoal or silver zeolite

FEF = 1.33 for filter eff. factor at 5CFM for silver zeolite

ENVIRONMENTAL SURVEY TEAM SAMPLING INFORMATION

SAMPLE FLOW RATE: 5.0 CFM

BACKGROUND:

50 CPM

FILTER EFF. FACTOR:

1.33

(Silver Zeolite)

COUNTING EFF: 0.0015

TOTAL SAMPLE VOLUME: 50 CUBIC FEET

PLUME CENTERLINE DATA FOR EST 1992 EXERCISE

MILES

	0.2	0.5	0.83		2	3	4	5	7	10
T1ME: 09	15									
SECTOR	G	G	G	G						
WB	0.31	1	0.5	0.39	0	0	0	0	0	0
CT	0	86	46	36	0	0	0	0	0	
ACT	0.0E+00	1.1E-07	5.9E-08	4.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	206	133	115	50	50	50	50	50	50
50	50	440	259	213	50	50	50	50	50	50
TIME: 09	45	-								
SECTOR	G	G	G	G	G	G				
MB	0.03	0.46	0.22	0.17	0.07	0.08	0	0	0	0
CT	. 0	70	34	26	11	5.3	0	0	0	
ACT	0.0E+00	9.0E-08	4.3E-08	3.3E-08	1.4E-08	6.8E-09	0.0E+00	0.DE+00	0.0E+00	0.0E+00
20	50	177	112	97	70	60	50	50	50	50
50	50	367	204	168	100	74	50	50	50	50
TIME: 10	15									
SECTOR	G	G	G	G	G	G	G	G		
WB	0.02	0.3	0.14		0.04	0.04	0.02	0.03	0	0
CT	0	130	63	50	20	6.1	3	2.5	0	(
ACT	0.0E+00	1.7E-07	8.1E-08	6.4E-08	2.6E-08	7.8E-09	3.8E-09	3.2E-09	0.0E+00	0.0E+00
20	50	286	164	141	86	61	55	55	50	50
50	50	639	336	277	141	78	64	61	50	50
TIME: 10	45									
SECTOR	G	G	G	G	G	G	G	G	G	
WB	0.03	0.17	0.09	0.07	0.03	0.02	0.01	0.01	0.01	
CT	0	0	0	0	0	5.7	6	4.4	1.2	
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-09	7.7E-09	5.6E-09	1.5E-09	0.0E+00
20	50	50	50	50	50	60	61	58	52	50
50	50	50	50	50	50	76	77	70	55	50
TIME: 11	15									
SECTOR	G	G	G	G	G	G	G	G	G	
WB	0.03	0.19	0.1	0.08	0.03	0.01	0	0	0	
Laboratoria de la compansión de la compa	0	0	0	0	0	0	0	0.06	2.7	0.7
CT									3.5E-09	
ACT	U. UE+U0									
	50		50	50	50	50	50	50	55	51

WB - whole body mR/hr 20 - gross com for 20 CF air sample (bkg = 50 cpm)
CT - child thyroid mR/hr 50 - gross cpm for 50 CF air sample (bkg = 50 cpm)
ACT - uCi/cc I in air 2ERO mR/hr indicates background

^(*) offscale with E-120

PLUME CENTERLINE DATA FOR EST 1992 EXERCISE

MILES

	0.2	0.5	0.83	. 1	2	3	4	5	7	10
TIME: 11	45	an Barraga and Comme								
SECTOR	G	G	G	G	G	G	G			0
WB	0.01	0.18	0.09	0.07	0.03	0.02	0.01	0	0	0
CT	0	0	0	0	0	0	0	0	0	1.3
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-09
20	50	50	50	50	50	50	50	50	50	52
50	50	50	50	50	50	50	50	50	50	56
TIME: 12	15								*************	
SECTOR	F	F	F	F	F	F	G			
WB	0.02	0.15	0.08	0.06	0.02	0.01	0.01	0	0	
CT	0.02	0.13	0.00	0	0	0	0	0	0	0.07
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.06+00	0.0E+00	0.0E+00	9.0E-11
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME: 12	45									
SECTOR	. F	F	F	F	F	F				
WB	0.03	0.17	0.09	0.07	0.03	0.01	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	
ACT	0.0E+00	0.0E+00	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME: 13	15			***************************************					Marian Commission	
SECTOR		F	F	F	F					
WB	0.02	0.2	0.09	0.07	0.03	0.02	0	0	0	
CT	0.02	0.2	0.07	0.07	0.03	0.02	0	0	0	Č
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.06+00	0.0E+00	0.0E+00	D. 0E+00
20	50	50	50	50	50	50	50	50		
50	50	50	50	50	50	50	50	50	50 50	50
TIME: 13	45									
SECTOR	F		F							
₩B	0.02	0.19	0.09	0.07	0.03	0.02	0	0	0	
CT	0	0	0	0	0	0	0	0	0	(
100	0.00+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	0.05+00									
	50				50	50	50	50	50	50

WB - whole body mR/hr

CT - child thyroid mR/hr

ACT - uCi/cc 1 in air

^{20 -} gross cpm for 20 CF air sample (bkg = 50 cpm)

^{50 -} gross cpm for 50 CF air sample (bkg = 50 cpm)

ZERO mR/hr indicates background

^(*) offscale with E-120

PLUME CENTERLINE DATA FOR EST 1992 EXERCISE

MILES

	0.2	0.5	0.83	1	2	3	4	5	7	10
TIME: 14	15	er and a result of early accounters. Not								
SECTOR	G	G	G	G	G	G				
WB	0.02	0.16	0.08	0.06	0.02	0.02	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0
ACT	C	0.0E+00	0.0E+00	0.0E+00	0.DE+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME: 14	45					-				
SECTOR	G	G	G	G	G	G				
WB	0.03	0.15	0.08	0.06	0.03	0.01	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME:										
SECTOR										
₩B										
CT										
ACT	0.06+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME:			***				TERRITORIS (MI			
SECTOR										
WB										
CT										
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME:		CLINICAL PROPRIOR SANDONS								
SECTOR										
WB										
WB CT								Tax San San		
	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CT	0.0E+00 50	0.0E+00 50	0.0E+00 50	0.0E+00 50	0.0E+00 50	0.0E+00 50	0.0E+00 50	0.0£+00 50	0.0E+00 50	0.0E+00

WB - whole body mR/hr CT - child thyroid mR/hr

CT - child thyroid mR/hr ACT - uCi/cc I in air 20 - gross cpm for 20 CF air sample (bkg = 50 cpm) 50 - gross cpm for 50 CF air sample (bkg = 50 cpm)

ZERO mR/hr indicates background

SPECIAL RECEPTOR DATA FOR EST 1992 EXERCISE

TIME: 09	15									
SECT/DIST										
WB	1 10									
CT										
	0.0E+00	0.05+00	0.05+00	0.05+00	0.05+00	0.05+00	0.05+00	0.05+00	0.05+00	0 05+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
20	,,,	,,,,	30	20	2.0	30	,,,	30	20	30
TIME: 094	45									
SECT/DIST										
WB										
CT										
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME: 10	5									
SECT/DIST	G5									
WE	0									
CT	0.53									
-	6.8E-10	0.05+00	0.05+00	0.05+00	0.05+00	0.05+00	0 05+00	0.05+00	0.05+00	0.05+00
20	51	50	50	50	50	50	50	50	50	50
50	52	50	50	50	50	50	50	50	50	
20	26	30	30	30	30	50	20	50	50	50
TIME: 104	5									
SECT/DIST	G5	G7	G10							
WB	0	0.01	0							
CT	2.9	1.1	0.01							
ACT	3.7E-09	1.4E-09		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0F+00
20	55	52	50	50	50	50	50	50	50	50
50	63	55	50	50	50	50	50	50	50	50
TIME: 111	5									
SECT/DIST	G7	G10								
MB	0	0								
100000	1	0.59								
CT			0.0F+00	0.0F+00	0.0F+00	0.0E+00	0.05+00	0.05+00	0.05+00	0.05+00
CT	1.3E-09							N - WE - WU		
	1.3E-09 52	51	50	50	50	50	50	50	50	50

CT - child thyroid mR/hr ACT - uCi/cc I in air WB - whole body mR/hr

20 - gross cpm for 20 CF air sample (bkg = 50 cpm) 50 - gross com for 50 CF air sample (bkg = 50 cpm)

ZERO mR/hr indicates background

SPECIAL RECEPTOR DATA FOR EST 1992 EXERCISE

*****			-				-			
TIME: 1145										
SECT/DIST	G10									
WB	0									
CT	0.42									
ACT	5.4E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.DE+00
20	51	50	50	50	50	50	50	50	50	50
50	52	50	50	50	50	50	50	50	50	50
TIME: 1215										
SECT/DIST	G10									
WB	0									
CT	0.03									
					0.0E+00					
20	50	50	50		50	50		50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME: 1245	-1445									TAXABLE AND SOME DATE OF SOME OFFI
SECT/DIST										
WB										
CT										
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.02+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME:								***************************************		
SECT/DIST										
WB										
CT										
ACT I	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME:		CONTRACTOR OF SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	-			A NE				
SECT/DIST										
WB										
CT										
ACT (0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.02+00	0.0E+00	0.0E+00
			50	50		50		50	50	50
20	50	50	20	24	2.0	2.0	20			

WB - whole body mR/hr

WB - whole body mR/hr 20 - gross cpm for 20 CF air sample (bkg = 50 cpm) CT - child thyroid mR/hr 50 - gross cpm for 50 CF air sample (bkg = 50 cpm)

ZERO mR/hr indicates background

ACT - uCi/cc I in air

PLUME CENTERLINE DATA FOR DHRS 1992 EXERCISE

MILES

	10	12	14	16	18	20	22	24	26	28
TIME: 0915	-1045									
SECT/DIST										
WB										
CT										
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	50	50	50	50	50	50
TIME: 1115										
SECT/DIST	G	G								
WB	0	0								
CT	0.07	0.13	0.05.00	2 05 00	0.05.05	0.00.00	0.05.05	0.00	0.05.05	
	9.0E-11								0.0E+00	
20	50	50	50	50	50	50	50	50	50	50
50	50	51	50	50	50	50	50	50	50	50
TIME: 1145										
SECT/DIST	G	G	G							
WB	0	. 0	0							
CT	1.3	0.46	0.22							
ACT	1.7E-09	5.9E-10	2.8E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	52	51	50	50	50	50	50	50	50	50
50	56	52	51	50	50	50	50	50	50	50
TIME: 1215										************
CECT IN LET										
SECT/DIST	G	G	G	G						
WB CT	0.07	0.83	0 0	0 25						
- The second			0.41	0.25	0.05.00	0.05.05	0.05.05	0.05.55	0.00.00	
20	50	1.1E-09 52	5.26-10						0.0E+00	
50	50	54	52	50 51	50	50	50	50	50 50	50
TIME: 1245				-		,,,	,,,	30	20	30
11ME: 1245										
SECT/DIST		G	G	G	G					
WB	0	0	0	. 0	0					
CT	0			0.38	0.18					
	0.0E+00	1.3E-11	7.0E-10	4.98-10	2.3E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
20	50	50	51	51	50	50	50	50	50	50
50	50	50	52	52	51	50	50	50	50	50

WB - whole body mR/hr

CT - child thyroid mR/hr ACT - uCi/cc 1 in air

20 - gross cpm for 20 CF air sample (bkg = 50 cpm)

50 - gross cpm for 50 CF air sample (bkg = 50 cpm)

ZERO mR/hr indicates background

PLUME CENTERLINE DATA FOR DHRS 1992 EXERCISE

MILES

	10	12	14	16	18	20	22	24	26	21
TIME: 13	15									
SECT/DIS	T			G	G	G				
WB.	0	0	0	0	. 0	0				
CT	0	0	0	0.35	0.32	0.15				
ACT	0.0E+00	0.06+00	0.0E+00	4.5E-10	4.1E-10	1.9E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+0
20	50	50	50	51	51	50	50	50	50	50
50	50	50	50	52	51	51	50	50	50	50
TIME: 13	45									
SECT/DIS	T				G	G	G			
WB	0	0	0	0	0	0	0			
CT	0	. 0	0	0	0.18	0.26	0.12			
ACT	0.0E+00	0.0E+00	0.0E+00	0.06+00	2.3E-10	3.3E-10	1.5E-10	0.0E+00	0.0E+00	0.0E+0
20	50	50	50	50	50	50	50	50	50	50
50	50	50	50	50	51	51	51	50	50	50
TIME: 14	15						THE RESIDENCE PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN T			and the second second
SECT/DIS	г					G	G	G	G	
WB	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0.1	0.2	0.12	0.07	
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.3E-10		1.5E-10	9.0E-11	0.0E+0
20	50	50	50	50	50	50	50	50	50	51
50	50	50	50	50	50	50	51	51	50	50
IME: 144	45									
SECT/DIST							G	G	G	
WB	0	0	0	0	0	0		0	0	
CT	0	0	0	0	0	0		0.16	0.12	0.0
ACT	0.0E+00		0.0E+00				2.6E-11		1.5E-10	7.7E-1
20	50	50	50	50	50	50	50	50	50	5
50	50	50	50	50	50	50	50	51	51	50
TIME:			-							
ECT/DIST										
WB										
CT										
ACT	0.0E+00	0.0E+00	0.0E+00	0.0E+0						
20	50	50	50	50	50	50	50	50	50	51
						-		77.00		-

WB - whole body mR/hr

CT - child thyroid mR/hr

ACT - uCi/cc I in air

^{20 -} gross cpm for 20 CF air sample (bkg = 50 cpm)

^{50 -} gross cpm for 50 CF air sample (bkg = 50 cpm)

ZEKO mR/hr indicates background

^(*) offscale with E-120

Each page of the table contains 5 sections of data going down the page.

Each section has the following data:

TIME - Time dose rate is projected to exist in the environment SECYOR - The map sector that the plume data is for

WB - whole body mR/hr

CT - child thyroid committed mR per hour of exposure

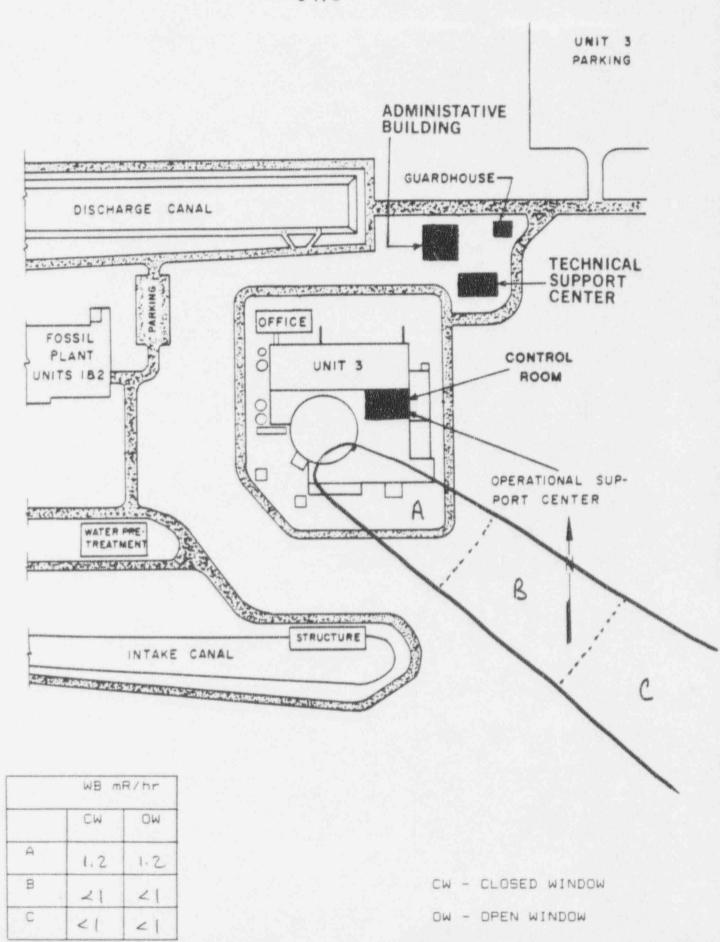
ACT - uCi/cc lodine in air

20 - gross cpm for 20 CF air sample with an E-120 (bkg = 50 cpm)

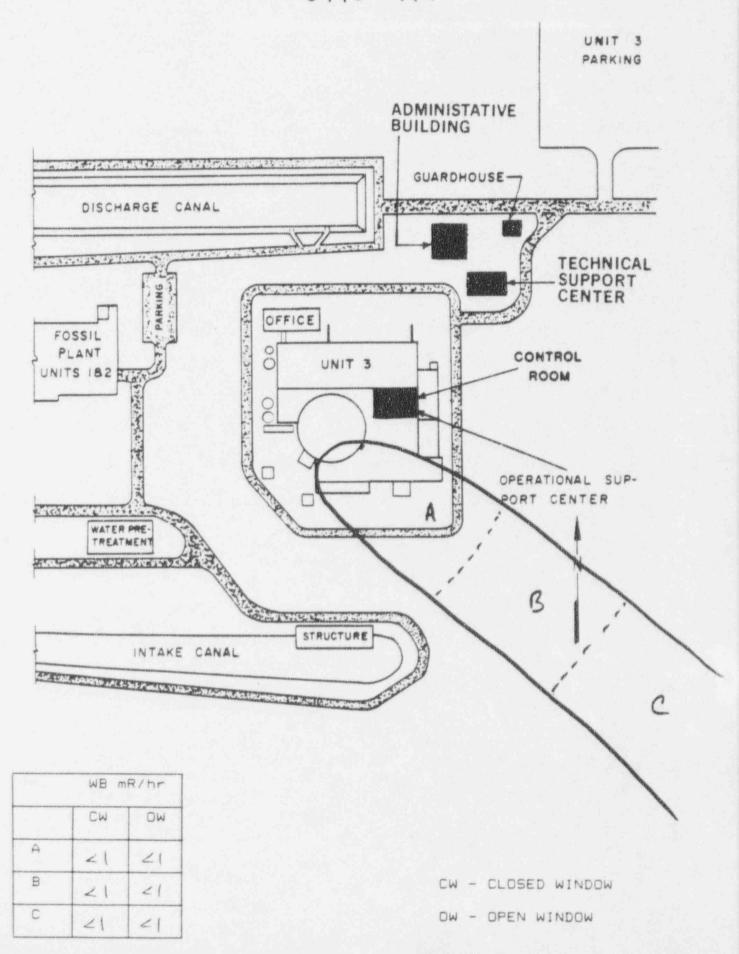
50 - gross com for 50 CF air sample with an E-120 (bkg = 50 com)

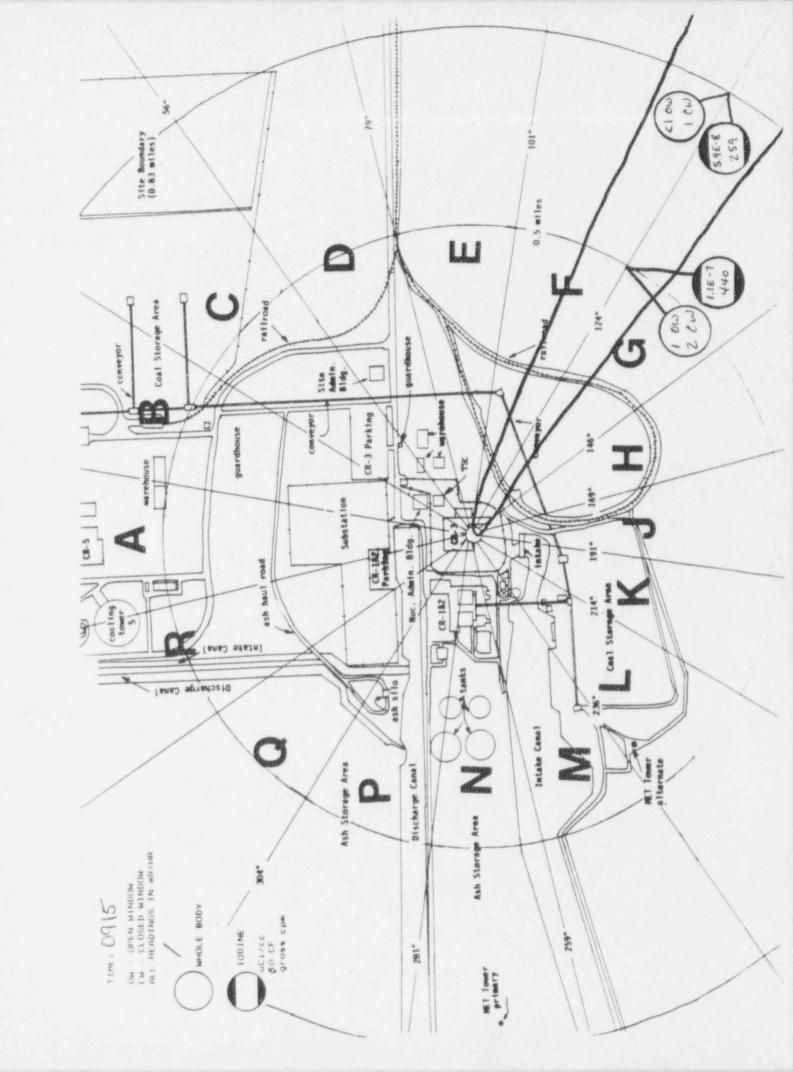
Each section contains a data set for each distance listed on the top of the page. (e.g. $0.2 \ 0.5 \ 0.83 \ 1 \ 2 \ 3 \ 4 \ 5 \ 7 \ 10$)

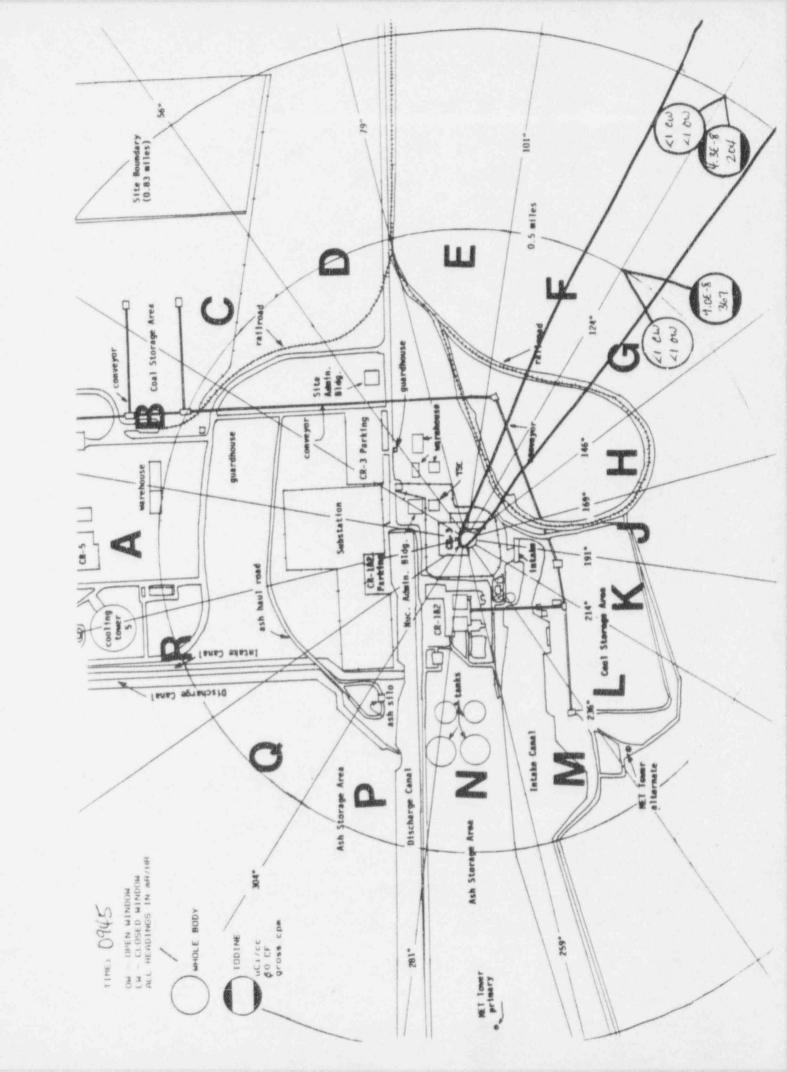
Blanks or zeros in the dose rate positions indicate background.

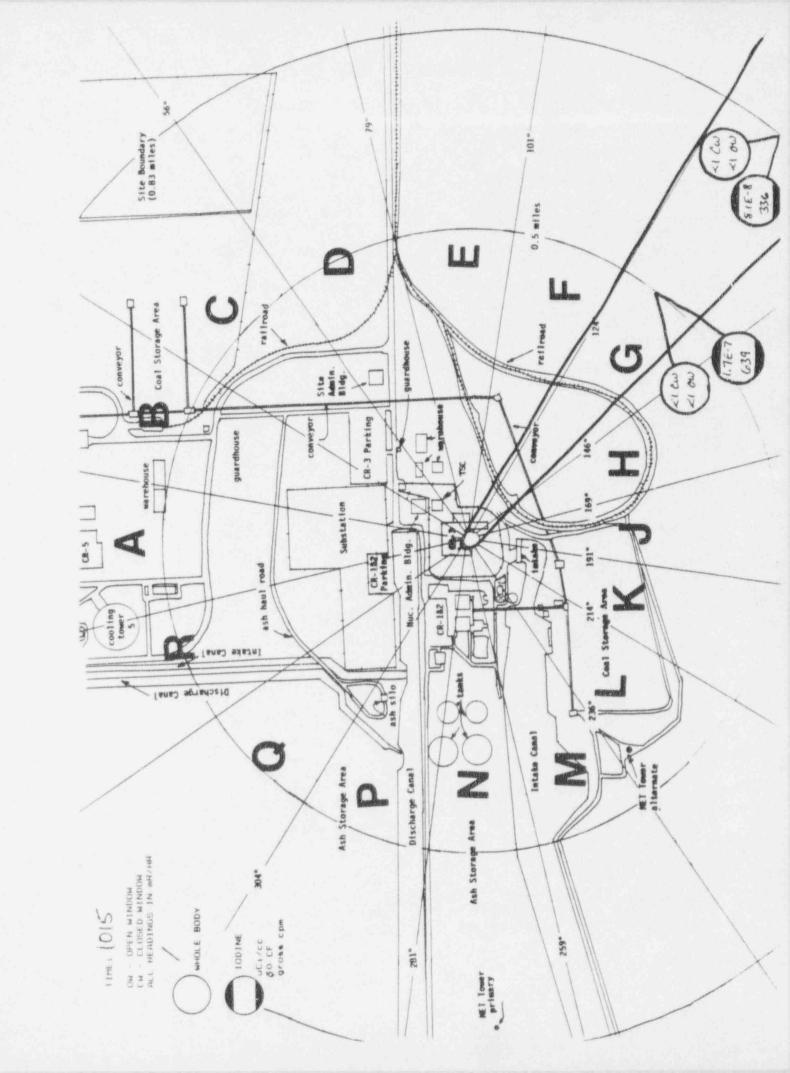


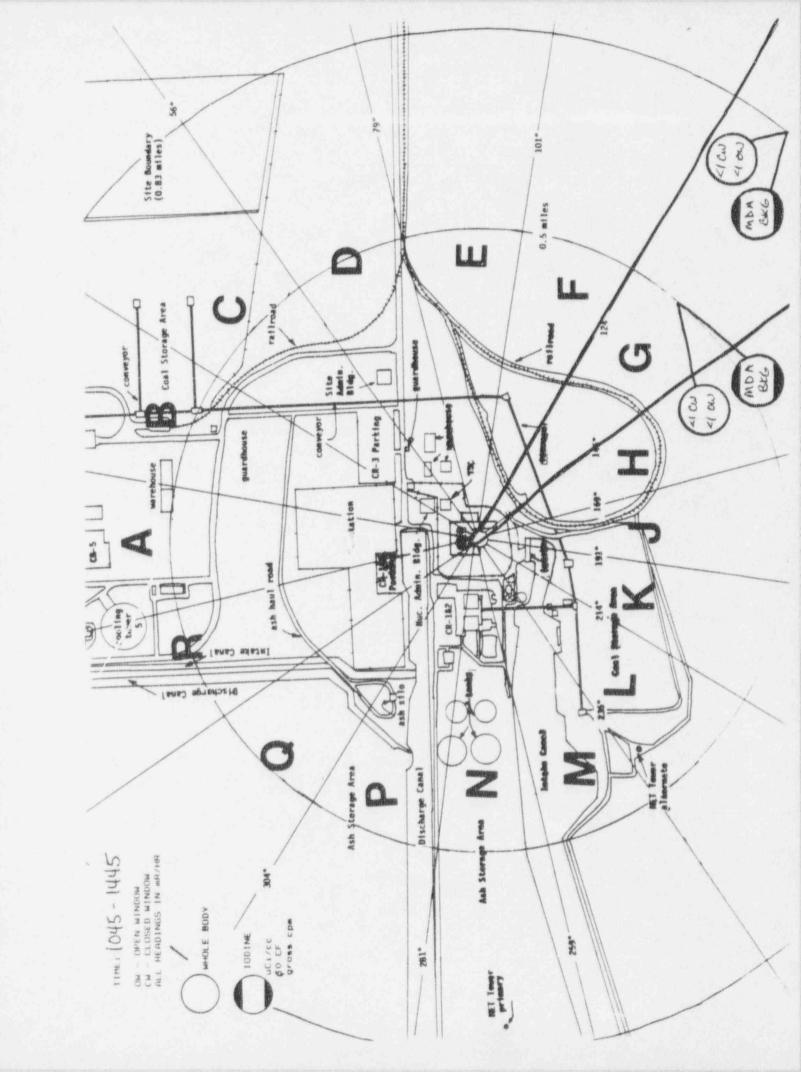
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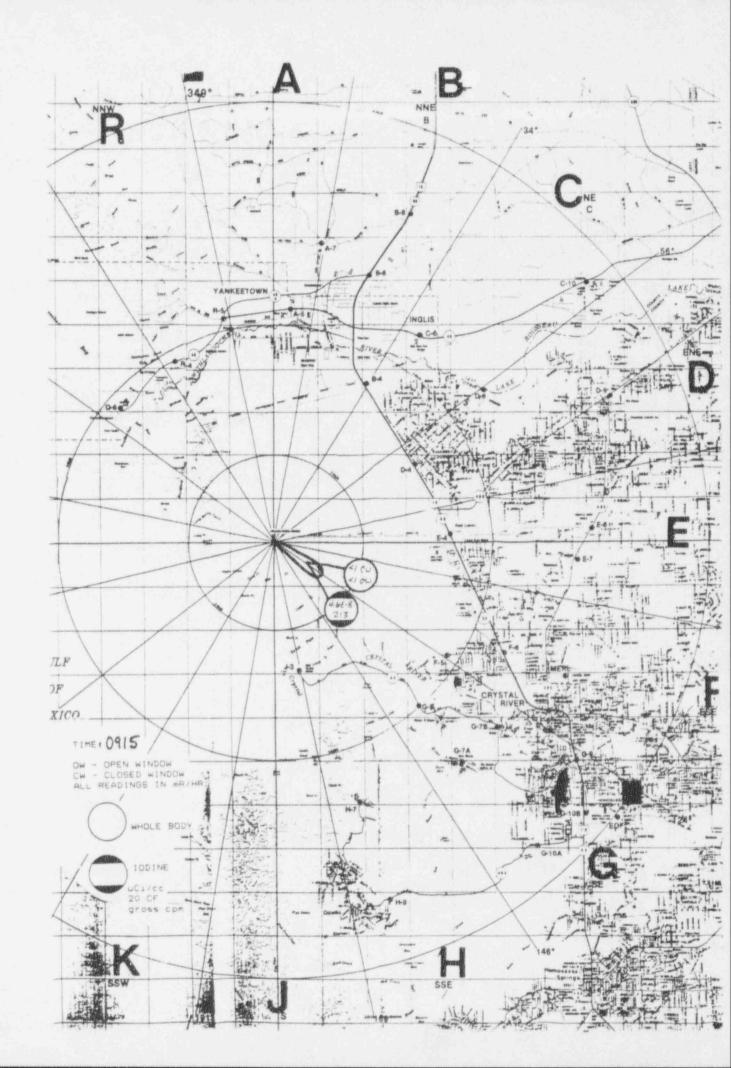


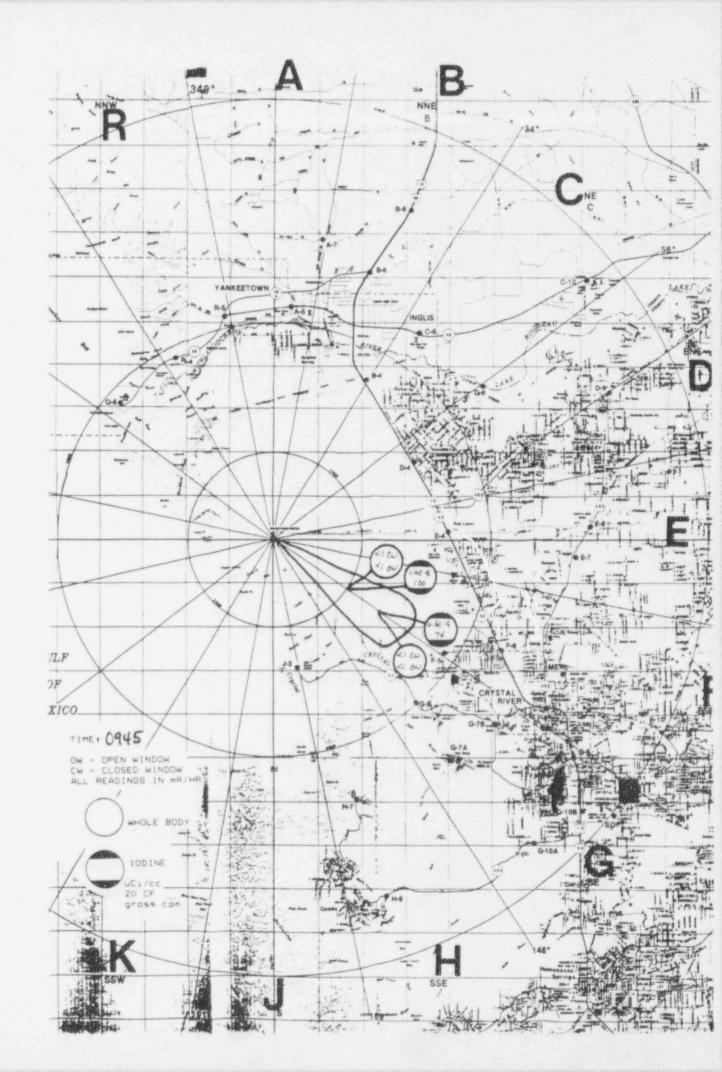


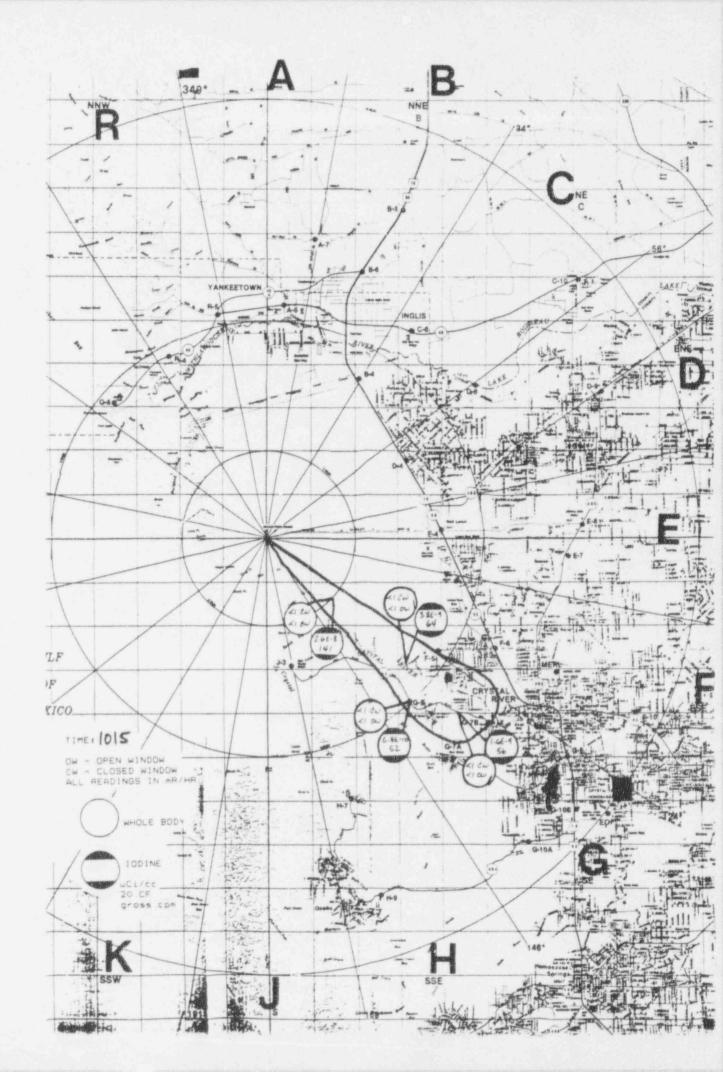


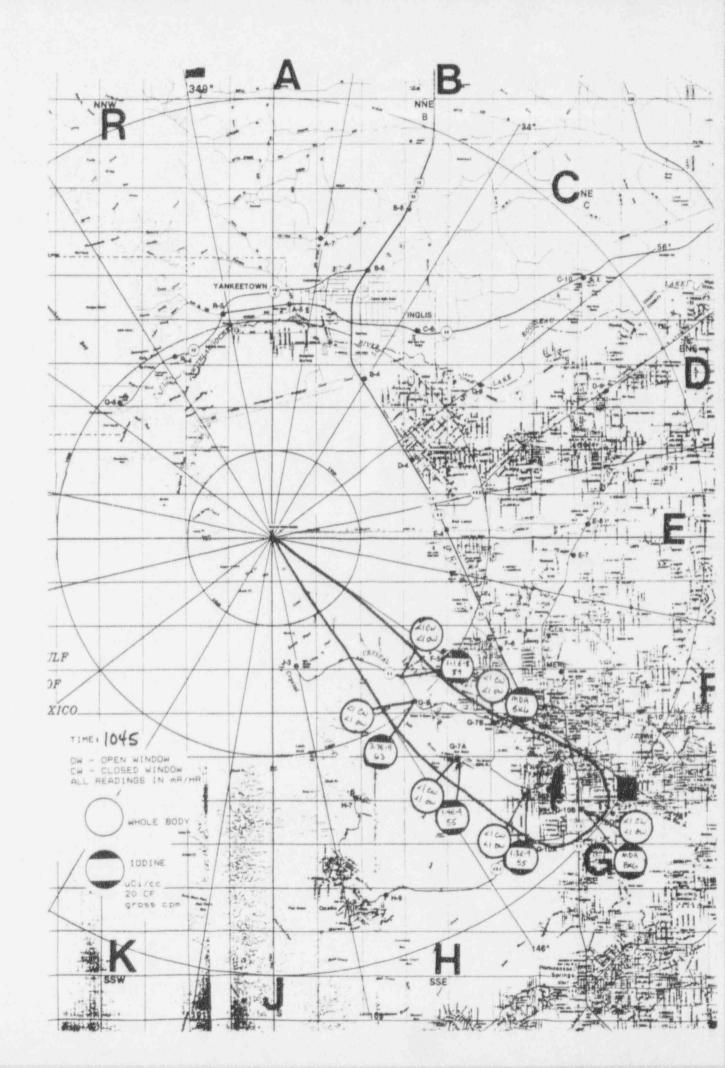


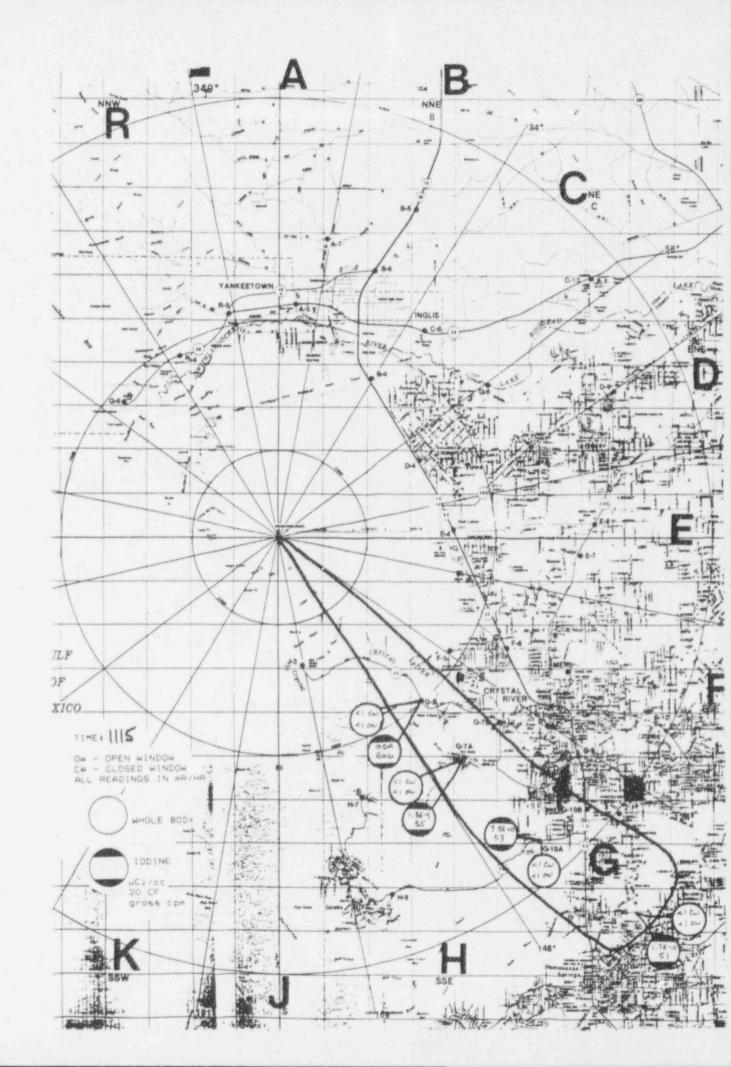


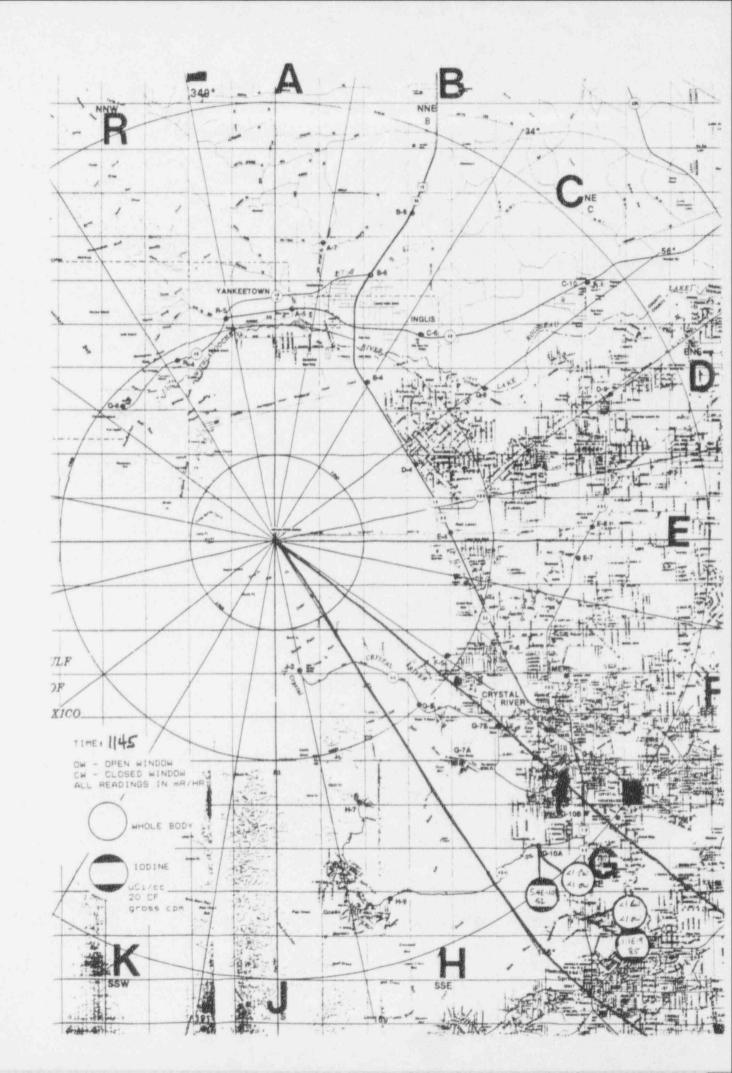


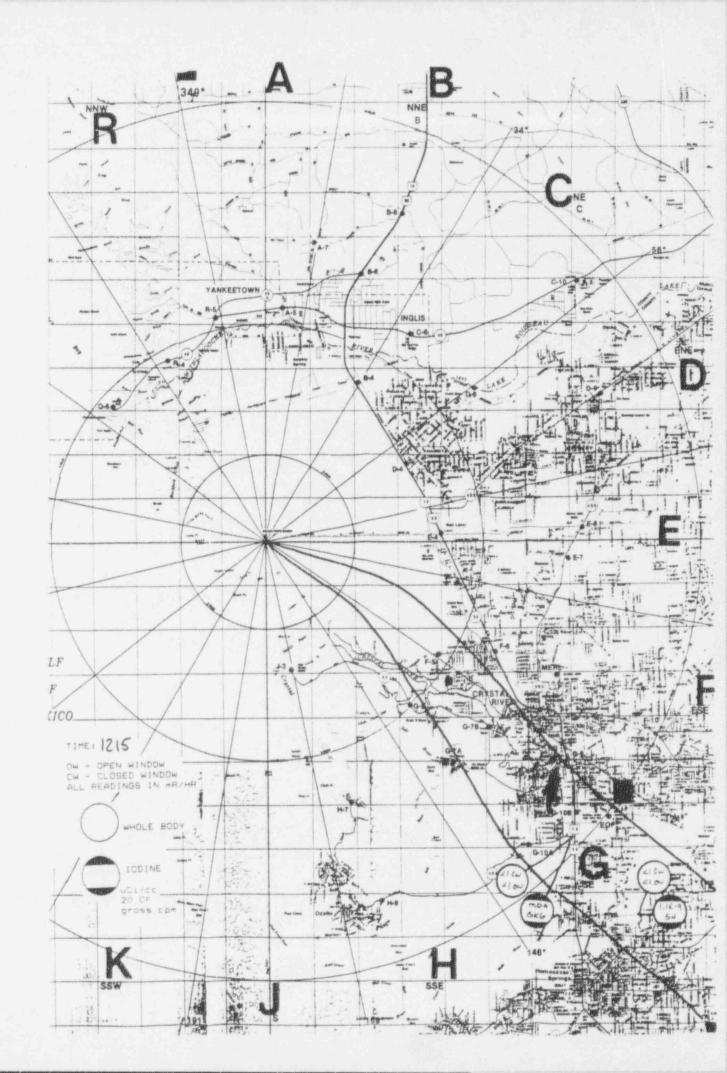


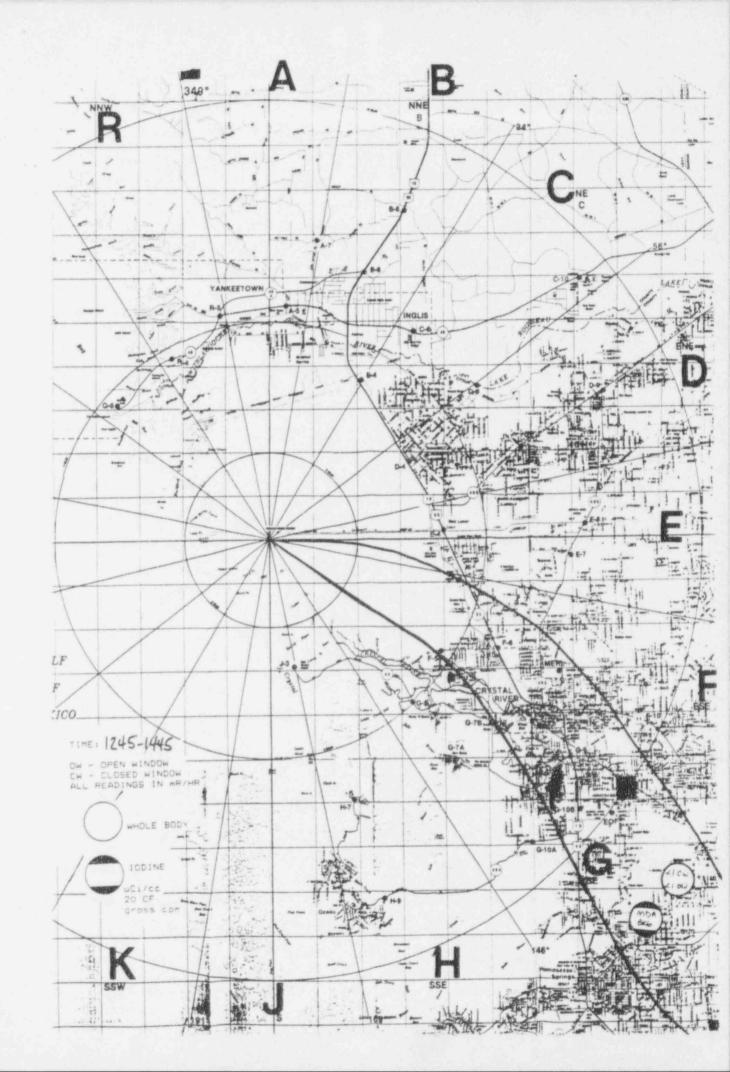










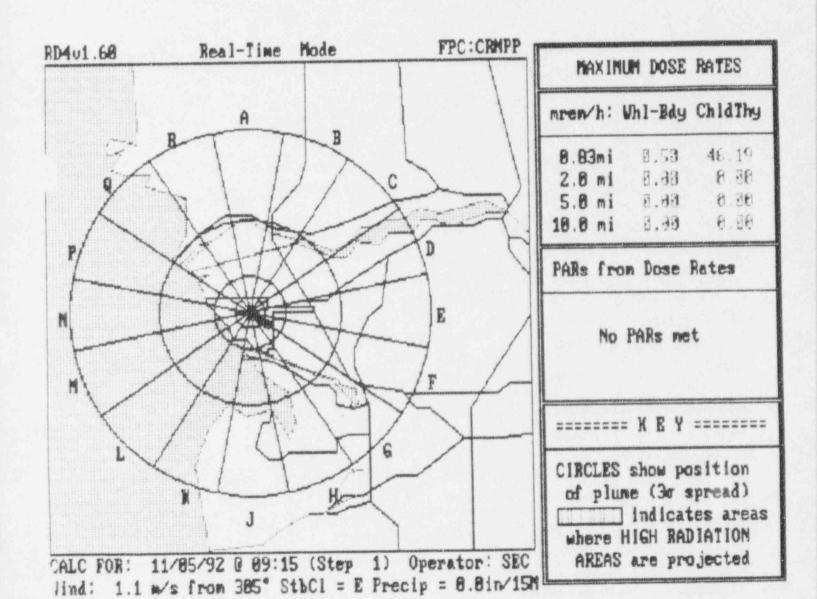


RADDOSE IV PERSION RD4v1.60 OR STAL RIVER NUCLEAR SEMERATING STATION COPYRIGHT 1990 HMM ASSOCIATES. [NC.

PROJ NUMBER: 001 PROJ DATE : 11/05/92 PRINT TIME: 08:37

PROJ TIME : 09:15 DEEPATOR : SEC

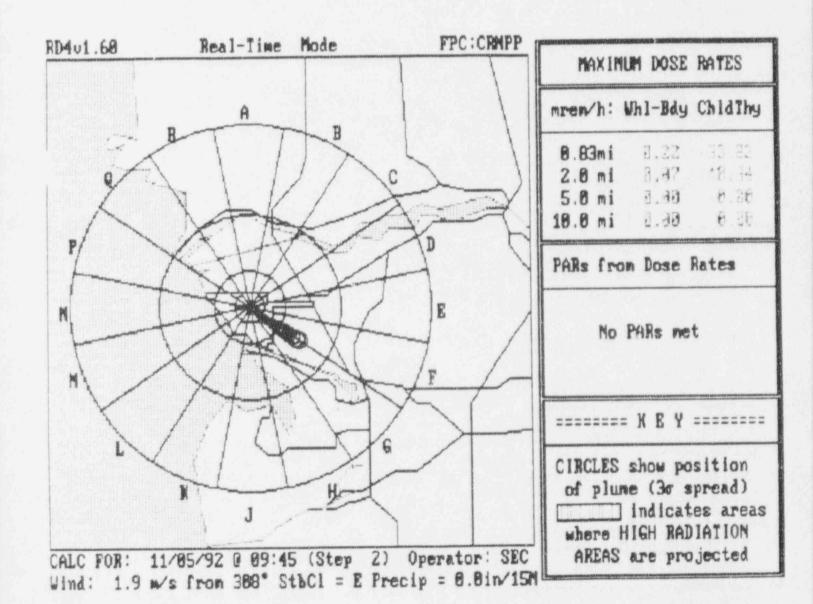
PRINT DATE: 08/18/92



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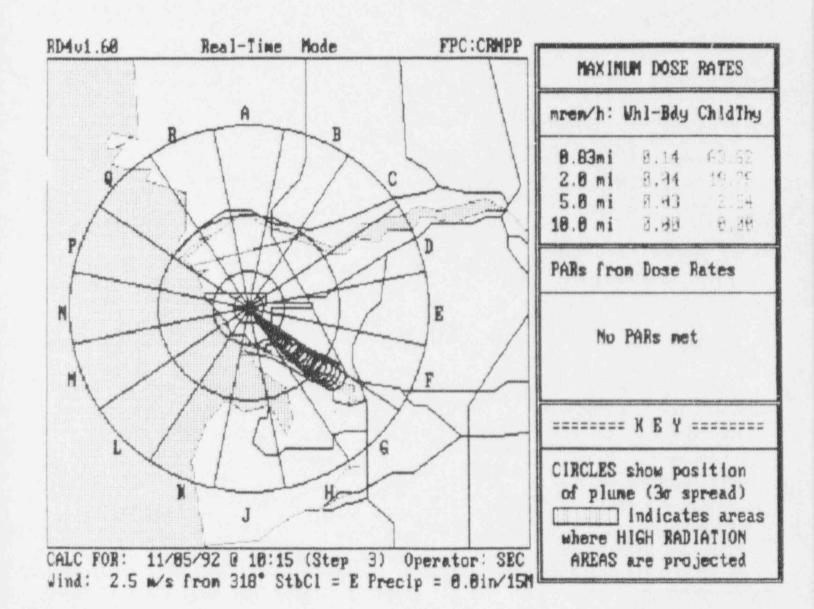
PRINT CATE: 68 13/9.
PRINT TIME: 08:46
OPERATOR : SEC



FACTORE IV VERSION RD4V1.40
IPVETAL RIVER NUCLEAR SEMERATING STATION
COPVRIGHT 1995 HMM ASSOCIATES, INC.

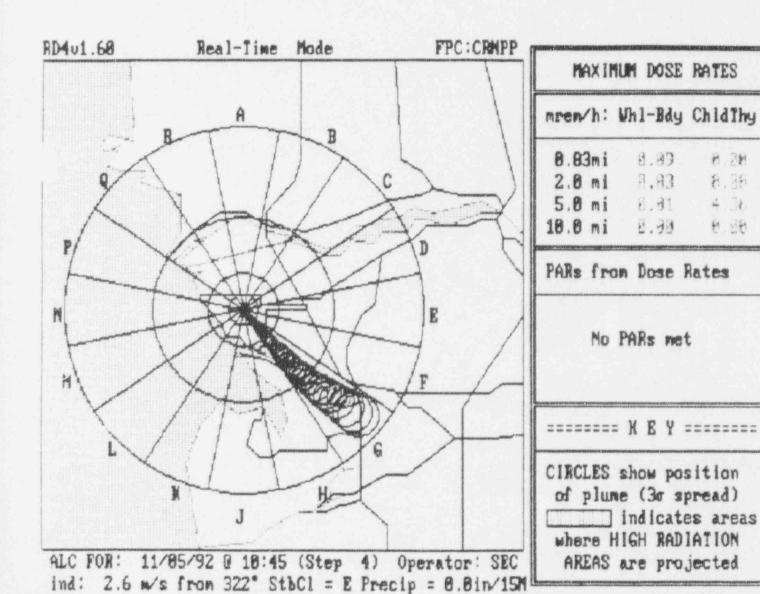
PROJ NUMBER: 003 PROJ DATE : 11/05/92 PROJ TIME : 10:15

PRINT DATE: 05/15/92 PRINT TIME: 09:14 OPERATOR : SEC



AALISEE 17 FABILA BLAVILE. B ST-L MIVER OC.EAR GENERATING BIATION COPYRIGHT 1990 HMM ABBOCIATES, INC.

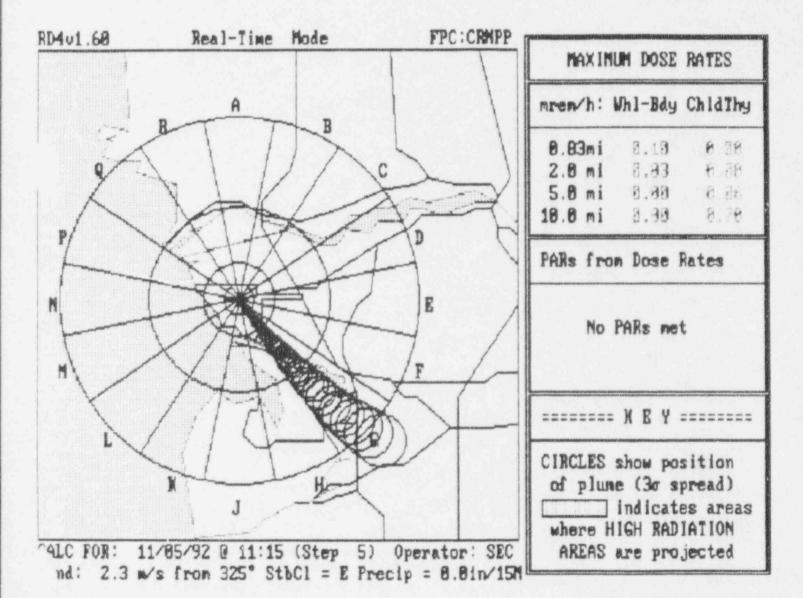
PROJ NUMSER: 004 PROJ 08/8 : 14:40/X PSSJ 16ME : 10:45 PRINT DATE: 08 19/92 PRINT TIME: 09:02 OFERHIOR : 8EC



TAVELER I. VERBION ADA. C. BU TAVETAL AT EA MUCLEAR SEMERATING STATEON OF ATOMY LIFE HMM ASSOCIATES, INC.

FROJ NUOSER: 305 FROJ SATE : 11 05 91 PROJ TIME : 11:15

PRINT DATE: 08/21/83 PRINT TIME: 14:11 CPEPATOR : SEC

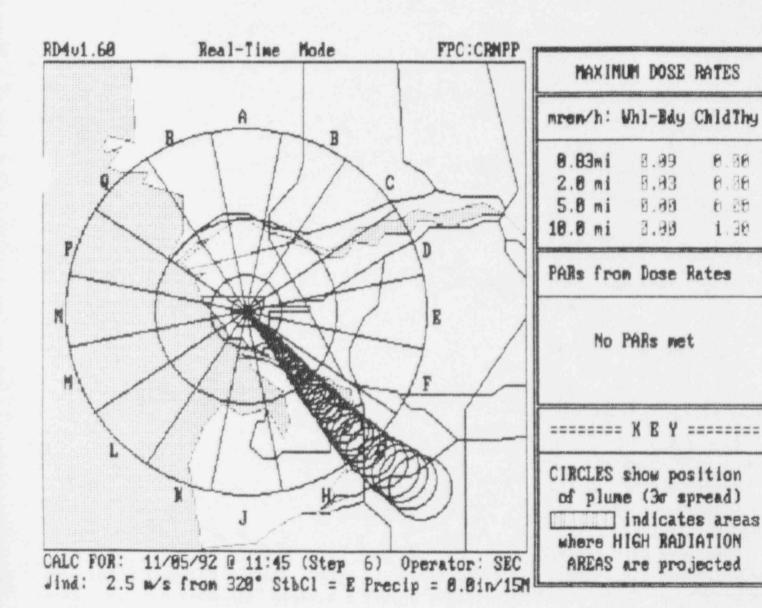


RADDOSE IV VERSION RD4/1.50 CRYSTAL RIVER NUCLEAR GENERATING STATION COFYRIGHT 1990 HMM ASSOCIATES, INC.

PROJ NUMBER: 006 PROJ DATE : 11/05/92

FROJ TIME : 11:45

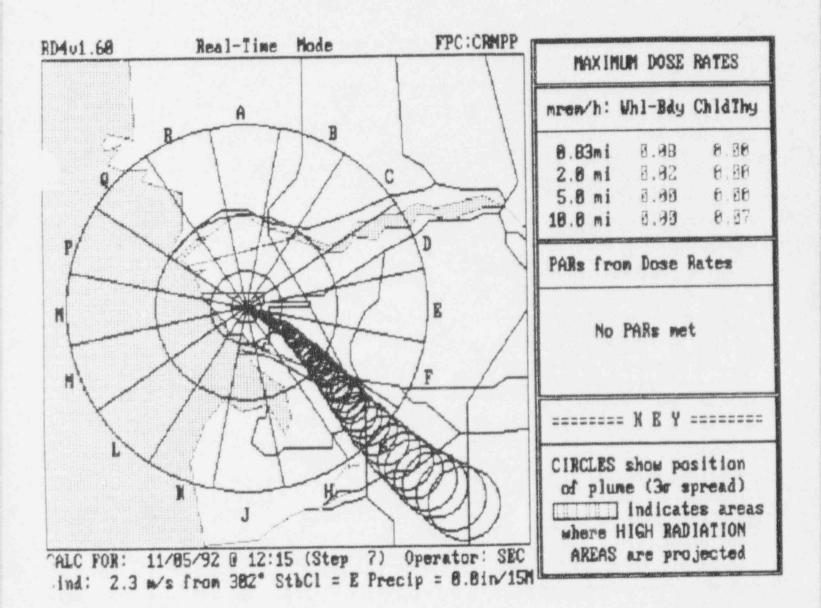
PRINT DATE: 08/18/92 PRINT TIME: 10:54 OPERATOR : SEC



RADDOSE IV VERSION RD4.1.50 OF STAL RIVER MUCLEAR GENERATING STATION COPIRIGHT 1990 HMM ASSOCIATES, INC.

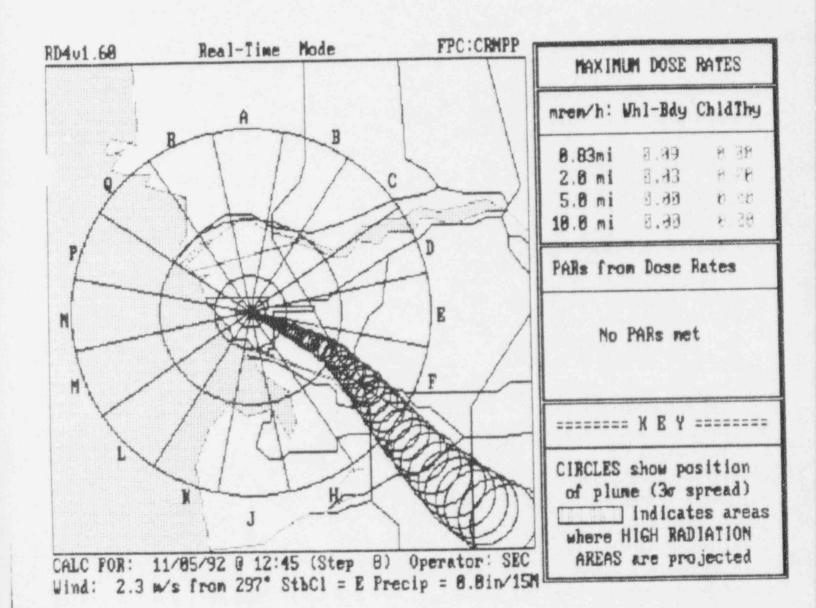
PROJ NUMBER: 007 PROJ DATE : 11/05/92 PRINT DATE: 08/19/92 FRINT TIME: 14:51

OPERATOR : SEC PROJ TIME : 12:15



RADDOSE IV LERGION ADA.1.57 IRASTAL RIVER NUTLEAR GENERATING STATION CORVAIGHT 1992 MMM ASSOCIATES, INC.

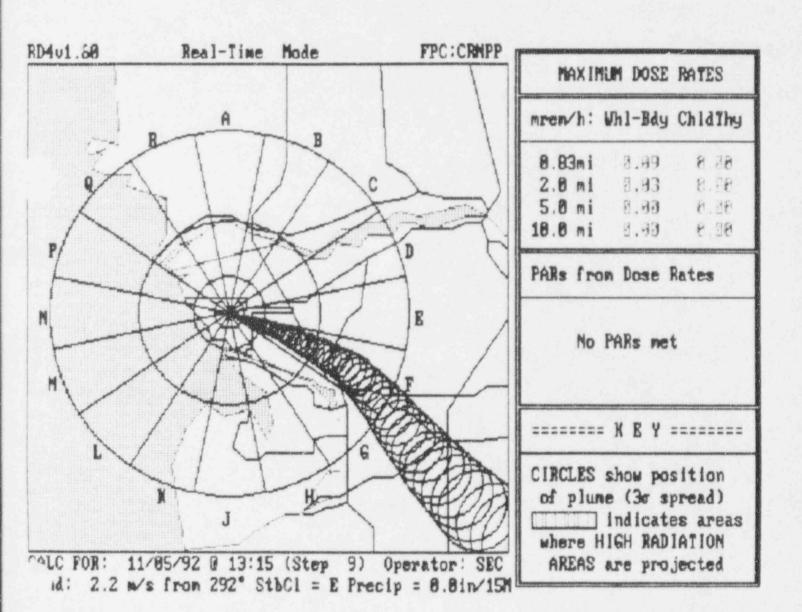
PROJ NUMBER: 008 PROJ DATE : 11:05/92 PAUJ TIME : 12:45 PRINT DATE: 18:01 PRINT TIME: 18:01 OPERATOR : 860



RALDCOS (VERSION FD4.1.6) 17.3TAL AIVER NUCLEAR SENERATING STATION DEP RIGHT 1990 HMM ASSOCIATES. INC.

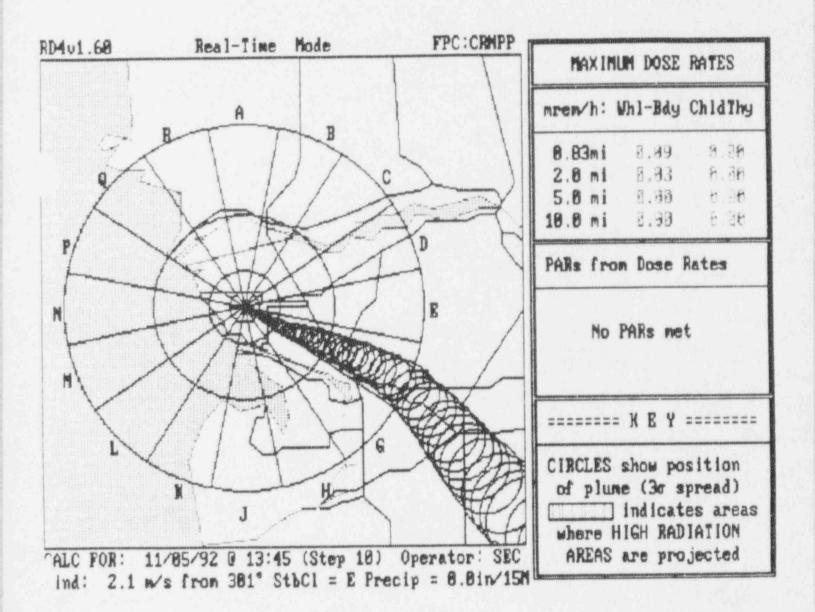
PROJ NUMBER: 009 PROJ DATE : 11/05/92 PRINT TIME: 15:30 PROJ TIME : 13:15

PRINT DATE: 08/18/92 OFERATOR : 3EC



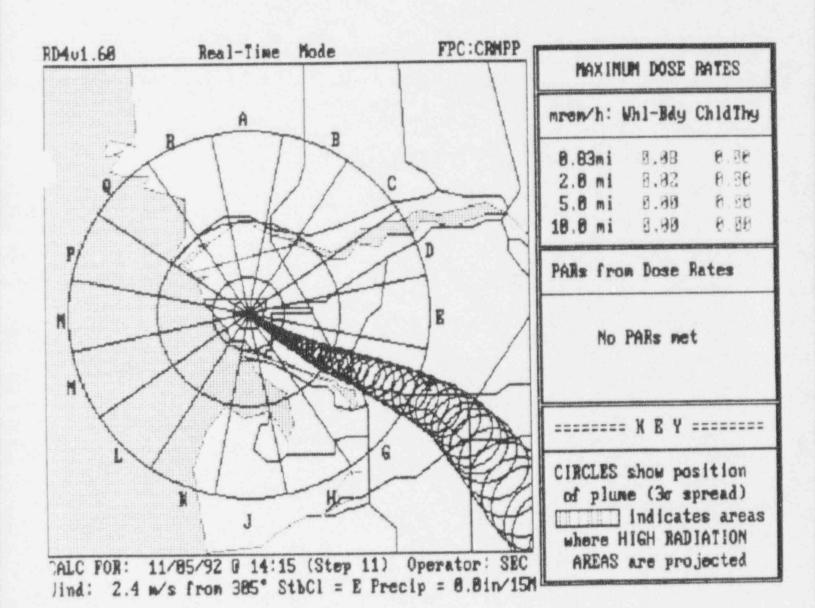
RADDOGE 10 VERSION RD4/1/60 TRICTAL RIVER UNCLEAR GENERATING STATION CORVRIGHT 1980 HMM ASSOCIATES, INC.

PROJ NUMBER: 010 PROJ DATE : 11/05/87 PROJ TIME : 13:45 PRINT DATE: 08/18/92 PRINT TIME: 15:42 OPERATOR : SEC



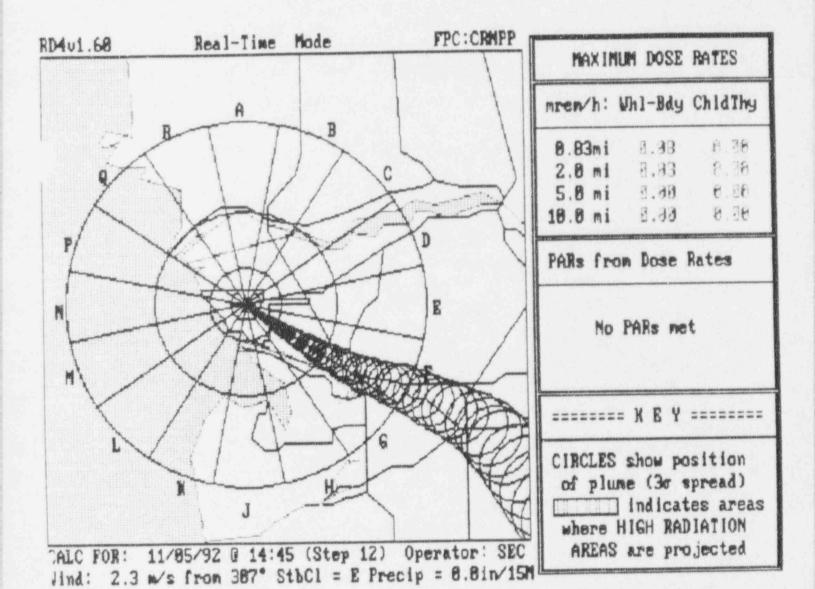
RADDOSE IV PASION RD4.1.50 CRISTAL RIVER NUCLEAR GENERATING STATION COFFRIGHT 1990 HMM ASSOCIATES, INC.

PROJ NUMBER: 011 PROJ DATE : 11/05/92 PROJ TIME : 14:15 PRINT DATE: 08/18/92 PRINT TIME: 15:58 OPERATOR : BEC



PADDOSE IV VERSION RDAVI.OU JANGTAL RIVER NUCLEAR SEMERATING STATICA LORYRIGHT 1880 HMM AGSOCIATES, INC.

PROJ HUMBER: 012 PROJ TIME : 11/05/97 PRINT DATE: 08:13/92 PRINT TIME: 18:08 OPERATOR : BEC



1992 EXERCISE

DPM/100 SQ CM

	D111/ 1	00 00 011	
TIME	SECTOR	0.5 MI	0.83 MI
0915	G	4.4E+03	2.2E+03
0945	G	7.8E+03	3.9E+03
1015	G	1.4E+04	6.9E+03
1045	G	1.4E+04	6.9E+03
1115	G	1.4E+04	6.9E+03
1145	G	1.4E+04	6.9E+03
1215	G	1.4E+04	6.9E+03
1245	G	1.4E+04	6.9E+03
1315	G	1.4E+04	6.9E+03
1345	G	1.4E+04	6.9E+03
1415	G	1.4E+04	6.9E+03
1445	G	1.4E+04	6.9E+03

1992 EXERCISE EST ISOTOPIC (UCI/CC)

1135	1.9E-08	1.0E-08	8.1E-09	1.6E-08	7.7E-09	5.9E-09	2.5E-09	1.2E-09	2.9E-08	1.4E-08	1,15-08	4.5E-09	1.48-09	6.8E-10	5.6E-10	1.2E-10	0.0E+00	0.0E+00	0.0€+00	0.06+00	1.3E-09	1.45-09	9.95-10	2.7E-10	6.5E-10	2.5E-10	2.36-12
1134	4.5E-09	2.46-09	1.96-09	3.7E-09	1.8E-09	1.4E-09	5.86-10	2.8E-10	6.8E-09	3.3E-09	2.6E-09	1.06-09	3.2E-10	1.66-10	1.3E-10	2.8E-11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-10	3.1E-10	2.3E-10	6.3E-11	1.5E-10	5.86-11	5.2E-13
1133	3.8E-08	2.0E-08	1.6E-08	3.1E-08	1.5E-08	1.2E-08	60-36.5	2.4E-09	5.8E-08	2.8E-08	2.2E-08	8.96-09	2.7E-09	1.3E-09	1.1E-09	2.4E-10	0.0E+00	0.0€+00	0.0E+00	0.0E+00	2.5E-09	2,7E-09	2.0E-09	5.3E-10	1.3E-09	4.9E-10	4.46-12
1132	1.2E-08	6.3E-09	4.9E-09	9.6E-09	4.7E-09	3.6E-09	1.5E-09	7.3E-10	1.8E-08	8.65-09	6.8E-09	2.7E-09	8.3E-10	4.16-10	3.4E-10	7.3E-11	0.0€+00	0.0€+00	0.0E+00	0.0€+00	7.85-10	8.2E-10	6.06-10	1.6E-10	4.0E-10	1,56-10	1.46-12
1131	3.68-08	1.96.08	1.5E-08	2.96-08	1.4E-08	1.1E-08	60-39°5	2.2E-09	5.5E-08	2.7E-08	2.16-08	8.4E-09	2.6E-09	1.3E-09	1.16-09	2.2E-10	0.0E+00	0.0€+00	0.0E+00	0.0E+00	2.4E-09	2.5E-09	1.98-09	5.0E-10	1.2E-09	4.66-10	4.2E-12
XE135	3.96-07	2.0E-07	1.5E-07	1.8E-07	8.6E-08	6.7E-08	2.7E-08	3.1E-08	1.2E-07	5.5E-08	4.3E-08	1.6E-08	1.6E-08	7.8E-09	1.2E-08	0.0E+00	6.7E-08	3.5E-08	2.7E-08	1.2E-08	7.8E-09	3.9E-09	3.98-09	3.96-09	0.0E+00	3.96-09	0.0E+00
XE133	1.86-05	90-30-6	7.0€-96	8.3E-06	4.0E-06	3.1E-06	1.3E-06	1.4E-06	5.48-06	2.5E-06	2.0E-06	7.2E-07	7.2E-07	3.6E-07	5.4E-07	0.0€+00	3.1E-06	1.6E-06	1.3€-06	5.4E-07	3.6€-07	1.8E-07	1.8E-07	1.8E-07	0.0E+00	1.8E-07	0.0E+00
XE133M	2.0E-07	9.8E-08	7.66-08	9.0E-08	4.3E-08	3.36-08	1.46.08	1.6€-08	5.96-08	2.7E-08	2.2E-08	7.8E-09	7.8E-09	3.9E-09	5.9E-09	0.0E+00	3.3E-08	1.8E-08	1.4E-08	5.9E-09	3.96-09	2.0E-09	2.0E-09	2.0E-09	0.0E+00	2.0E-09	0.0€+00
XE131M	1.28-07	5.9E-08	4.6E-08	5.4E-08	2.6E-08	2.0E-08	8.2E-09	60-35-6	3.56-08	1.6E-08	1.3E-08	4.7E-09	4.7E-09	2.36-09	3.5E-09	0.0€+00	2.08-08	1.18-08	8.2E-09	3.5E-09	2.3E-09	1.28-09	1.2E-09	1.2E-09	0.0€+00	1.2E-09	0.0€+00
KR88	1.6€-07	7.8E-08	6.1E-08	7.2E-08	3.4E-08	2.7E-08	1.16-08	1.38-08	4.7E-08	2.2E-08	1.7E-08	6.3E-09	6.3E-09	3.1E-09	4.78-09	0.0E+00	2.7E-08	1.4E-08	1.16-08	4.7E-09	3.16-09	1.66-09	1.66-09	1.6€-09	0.0E+00	1.66-09	0.0E+00
KR87	3.96-08	2.0E-08	1.5E-08	1.86-08	8.6E-09	6.7E-09	2.7E-09	3.1E-09	1.2E-08	5.5E-09	4.3E-09	1.66-09	1.6€-09	7.8E-10	1.2E-09	0.0€+00	6.7E-09	3.5E-09	2.7E-09	1.2E-09	7.8E-10	3.96-10	3.96-10	3.98-10	0.0E+00	3.96-10	0.0E+00
KR85	5.3E-07	2.6€-07	2.1E-07	2.4E-07	1.2E-07	9.0E-08	3.7E-08	4.2E-08	1.6E-07	7.4E-08	5.86-08	2.1E-08	2.1E-08	1,1E-08	1.6E-08	0.0€+00	9.06-08	4.8E-08	3.76-08	1.6E-08	1.16-08	5.36-09	5.3E-09	5.3E-09	0.0E+00	5.3E-09	0.0E+00
KR85#	9.8E-08	4.9E-08	3.86-08	4.5E-08	2.2E-08	1.7E-08	6.8E-09	7.8E-09	2.9E-08	1.48-08	1.16-08	3.96.09	3.96-09	2.0E-09	2.9E-09	0.0E+00	1.7E-08	8.8E-09	6.8E-09	2.9E-09	2.0E-09	9.8E-10	9.88-10	9.86-10	00.0€+00	9.8E-10	0.0E+00
KR33M	2.0E-08	9.8E-09	7.6E-09	9.0E-09	4.3E-09	3.3E-09	1.6E-09	1.68-09	5.9E-09	2.7E-09	2.2E-09	7.86-10	7.86-19	3.96-10	5.96-10	0.0E+00	3.3E-09	1.86-09	1.46-09	5.96-10	3.9€-10	2.06-10	2.0E-10	2.0E-10	0.0E+00	2.0E-10	0.0E+00
DIST	0.5	0.83		0.5	0.83	-	2	m	0.5	0.83		2	100	4	NO.		0.5	0.83	-	2	M)	4	Wh.	1			
TIME SECT DIST	9	S	9	9	9	9	S	9	9	9	S	S	9	9	S	65	Ø	5	Ø	w	9	9	9	S	65	67	610
H H	0915			5760					1015								1045										

3 1134 1135	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 1.3.1E-12 1.4E-11 9 1.4E-10 6.1E-10 0 3.7E-11 1.6E-10 0 5.2E-11 2.3E-10	0.0E+00 0.0E+00 0.0E+00 0.0E+00 1.0E+01 0.0E+00 0.0E+01 0.0E+00 0.0E+01 0.0E+00 1.0E+12 0.0E+01	0 0.0E+00 0.0E+00 0 0.0E+00 0.0E+00 0 0.0E+00 0.0E+00 0 0.0E+00 0.0E+00
2 1133	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 1.2E-09 1.3.1E-10 1.2.6E-10	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 1.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00	0 0.0E+000 0 0.0E+000 0 0.0E+000
1 1132	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 1 8.2E-12 9 3.7E-10 0 9.6E-11	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 1.0E+12	0 0.0E+00 0 0.0E+00 0 0.0E+00 0 0.0E+00
113	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 1.1E-09 1.2.5E-10	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00	0.0E+00 0.0E+00 0.0E+00
XE135	7.4E-08 3.9E-08 3.1E-08 3.9E-09 0.0E+00 0.0E+00	7.0E-08 2.7E-08 1.2E-08 1.2E-08 3.9E-09 0.0E+00 0.0E+00 3.9E-09 3.9E-09 3.9E-09 3.9E-09 3.9E-09	6.7E-08 3.5E-08 2.7E-08
XE133	3.4E-06 1.18E-06 1.4E-06 1.4E-07 1.8E-07 0.0E+00 0.0E+00 0.0E+00	3.2E-06 1.3E-06 5.4E-07 3.6E-07 0.0E+00 0.0E+00 1.4E-06 1.4E-06 1.4E-07 1.8E-07 1.8E-07	3.1E-06 1.6E-06 1.3E-06 5.4E-07
XE133M	3.7E-08 2.0E-08 1.6E-08 5.9E-09 0.0E+00 0.0E+00 0.0E+00	3.5E-08 1.4E-08 5.9E-09 5.9E-09 0.0E+00 0.0E+00 1.2E-08 3.9E-09 2.0E-09 0.0E+00 0.0E+00	3.3E-08 1.8E-08 1.4E-08 5.9E-09
XE131M	2.2E-08 1.2E-08 9.4E-09 3.5E-09 1.2E-09 0.0E+00 0.0E+00 0.0E+00	2.1E-08 8.2E-09 3.5E-09 2.3E-09 1.2E-09 0.0E+00 0.0E+00 7.0E-09 7.2E-09 1.2E-09 0.0E+00 0.0E+00	2.0E-08 1.1E-08 8.2E-09 3.5E-09
KR88	3.0E-08 1.6E-08 1.3E-08 4.7E-09 1.6E-09 0.0E+00 0.0E+00 0.0E+00	2.8E-08 1.4E-08 4.7E-09 3.1E-09 0.0E+00 0.0E+00 0.0E+00 1.3E-08 9.4E-09 3.1E-09 1.6E-09 0.0E+00	2.7E-08 1.4E-08 1.7E-09 4.7E-09
KR87	7.4E-09 3.9E-03 3.1E-09 1.2E-09 3.9E-10 0.0E+00 0.0E+00 0.0E+00 0.0E+00	7.0E-09 3.5E-09 1.2E-09 7.8E-10 3.9E-10 0.0E+00 0.0E+00 5.9E-09 3.1E-09 3.9E-10 3.9E-10 0.0E+00 0.0E+00	6.7E-09 3.5E-09 2.7E-09 1.2E-09
KR85	1.0E-07 5.3E-08 4.2E-08 1.6E-08 5.3E-09 0.0E+00 0.0E+00 0.0E+00	4.95.6.08 4.08.08 3.76.08 1.16.08 5.36.09 0.06.00 7.96.08 4.26.08 3.26.09 5.36.09 5.36.09 0.06.00	9.06-08 4.86-08 3.76-08
KR85M	1.9E.08 9.8E.09 7.8E.09 2.9E.10 0.0E+00 0.0E+00 0.0E+00 0.0E+00	1.8E 08 8.8E 09 6.8E 09 2.0E 09 9.8E 10 0.0E+00 1.5E 08 7.8E 10 9.8E 10 9.8E 10 9.8E 10	1.7E-08 8.8E-09 6.8E-09 2.9E-09
KR83M	3.7E-09 2.0E-09 1.6E-09 5.9E-10 0.0E+00 0.0E+00 0.0E+00 0.0E+00	3.5E-09 1.4E-09 1.4E-09 5.9E-10 2.9E-10 0.0E+00 0.0E+00 1.2E-09 3.9E-10 2.9E-10 2.0E-10 0.0E+00 0.0E+00	3.3E-09 1.8E-09 1.4E-09 5.9E-10
SECT DIST	6 0.5 6 0.83 6 0.83 6 3 6 7 6 7 6 7 6 70	6 0.83 6 0.83 6 0.83 7 0.5 7 0.5 7 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F 0.83
TIME S	2	1145	1245

1116 SECT 0.15 1.88 KR83 KR85 KR87 KR88 KR1314 KR1334 KR135 KR	10	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	Q	0	0	0	0
SECT 0151 KR83M KR85M KR85M KR85M KR85M KR85M KR83M KR133M KR133M KR133M KR133 KR134	1135	0.0E+90 0.0E+00	0.08+00	0.0€+00	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0€+00	0.0E+00	0.0€+00	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0€+00	0.0€+30	0.0E+00
SECT D1ST KR83M KR88D KR8B KR8B KR133M KR133M <td>1134</td> <td>0.0E+00</td> <td>0.0E+00</td> <td>0.06+00</td> <td>0.0E+00</td> <td>0.06+00</td> <td>0.0€+00</td> <td>0.0E+00</td> <td>0.0E+00</td> <td>0.0E+00</td> <td>0.0E+00</td>	1134	0.0E+00	0.0E+00	0.06+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.06+00	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SECT D131 KR83M KR85 KR85 KR85 KR87 KR83 KR133M KR133 KR135 KR135 <th< td=""><td>1133</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0€+00</td><td>0.0E+00</td><td>0.0€+00</td><td>0.0E+0G</td><td>0.0€+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td><td>0.0E+00</td></th<>	1133	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0€+00	0.0E+00	0.0€+00	0.0E+0G	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
F 0.5 3.9E-09 2.0E-08 1.1E-07 7.8E-09 3.1E-08 2.3E-08 3.0E-08 3.6E-08 3.1E-08 3.1E-08 3.0E-09 3.0E-08 3.1E-08 3.1E-08 3.0E-08 3.0E-08 3.1E-08 3.1E-08 3.0E-08 3.0E-08 3.1E-08 3.0E-08 3.0E-09	1132	0.0E+00	0.06+00	0.0€+00	0.0E+00	0.0€+00	0.0E+00	0.0€+00	0.0E+00	0.0E+00	0.06+00	0.08+00	0.06+00	0.0E+00	0.0€+00	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
F 0.5 3.9E-09 2.0E-08 1.1E-07 7.8E-09 3.1E-08 XE1334 XE1334 XE1338 XE1334 XE1338 XE1	1131	0.0E+00	0.0€+00	0.0€+00	0.0E+00	0.0E+00	0.0E+00	0.0€+00	0.0E+00	0.0€+00	0.06+00	0.06+00	0.0E+00	0.0E+00	0.08+00	0.06+30.0	0.0€+00	0.05+00	0.0E+00	0.0E+00
F 0.5 3.9E-09 2.0E-06 1.1E-07 7.8E-09 3.1E-08 3.5E-09 3.5E-09<	XE135	7.8E-08 3.5E-08	2.7E-08	1.2E-08	7.8E-09	7.4E-08	3.56-08	2.7E-08	1.2E-08	7.8E-09	6.3E-08	3.1E-08	2.3E-08	7.8E-09	7.86-09	5.96-08	3.16-08	2.3E-08	1.2E-08	3.96-09
F 0.5 3.9E-09 2.0E-08 1.1E-07 7.8E-09 3.1E-08 2.3E-08 F 0.83 1.0E-09 8.0E-09 4.8E-08 3.5E-09 1.4E-06 1.1E-08 F 0.83 1.0E-09 8.0E-09 4.0E-08 3.5E-09 1.4E-06 1.1E-08 F 2 5.9E-10 2.0E-09 1.0E-08 7.2E-09 1.1E-08 3.2E-09 F 3 3.9E-10 2.0E-09 1.1E-08 7.2E-09 1.1E-08 3.1E-09 3.1E-09 3.1E-09 3.2E-09 F 0.5 3.7E-09 1.1E-08 7.2E-09 1.1E-08 3.1E-09 F 1 1.4E-09 1.6E-08 3.1E-09 3.1E-09 3.1E-09 3.1E-09 3.1E-09	XE133	3.6E-06 1.6E-06	1.3€-06	5.4E-07	3.6E-07	3.46-06	1.66-06	1.36-06	5.4E-07	3.6E-07	2.9E-06	1.46-06	1.16-06	3.6E-07	3.6E-07	2.7E-06	1.4E-06	1.1E-06	5.4E-07	1.8E-07
F 0.5 3.9E-09 2.0E-08 1.1E-07 7.8E-09 3.1E-08 F 0.83 1.2E-09 6.8E-09 4.8E-08 3.5E-09 1.4E-08 F 0.83 1.8E-09 8.8E-09 4.8E-08 3.5E-09 1.4E-08 F 0.83 1.8E-09 8.8E-09 4.8E-08 3.7E-09 1.7E-08 F 0.83 1.9E-09 4.8E-08 1.2E-09 4.7E-08 F 0.83 1.9E-09 4.8E-08 1.2E-09 4.7E-08 F 0.83 1.9E-09 4.8E-08 1.7E-09 4.7E-08 F 0.83 1.9E-09 4.8E-08 3.7E-09 1.7E-08 F 0.83 1.9E-09 4.8E-08 3.7E-09 4.7E-08 F 0.85 1.9E-09 4.2E-08 3.7E-09 4.7E-08 F 0.83 1.6E-09 4.2E-08 3.7E-09 4.7E-09 G 0.83 4.2E-08 3.7E-08 3.7E-09 4.7E-09 G <td>XE133M</td> <td>3.9E-08 1.8E-08</td> <td>1.4E-08</td> <td>5.98-09</td> <td>3.96-09</td> <td>3.7E-08</td> <td>1.8E-08</td> <td>1.4E-08</td> <td>5.9E-09</td> <td></td> <td>3.1E-08</td> <td>1.66-08</td> <td>1.2E-08</td> <td>3.9E-09</td> <td>3.96-09</td> <td>2.9E-08</td> <td>1.6E-08</td> <td>1.2E-08</td> <td>5.9E-09</td> <td>2.0E-09</td>	XE133M	3.9E-08 1.8E-08	1.4E-08	5.98-09	3.96-09	3.7E-08	1.8E-08	1.4E-08	5.9E-09		3.1E-08	1.66-08	1.2E-08	3.9E-09	3.96-09	2.9E-08	1.6E-08	1.2E-08	5.9E-09	2.0E-09
F 0.5 3.9E-09 2.0E-06 1.1E-07 7.8E-09 3.1E-09 F 0.83 1.8E-09 2.0E-06 1.1E-07 7.8E-09 1.4E-09 F 0.83 1.8E-09 8.8E-09 4.8E-08 3.7E-09 1.4E-09 F 1 1.4E-09 6.8E-09 3.7E-08 2.7E-09 1.1E-09 F 0.83 1.0E-09 6.8E-09 1.1E-08 7.8E-10 1.1E-09 F 0.83 1.0E-09 1.0E-09 1.0E-09 1.0E-09 1.0E-09 1.0E-09 F 0.83 1.0E-09 1.0E-08 1.0E-09 1.0E-09 1.0E-09 1.0E-09 F 0.83 1.0E-09 1.0E-08 1.0E-09	XE131M	2.3E-08 1.1E-08	8.2E-09	3.5E-09	2.3E-09	2.2E-08	1, 16-08	8.2E-09	3.5E-09	2.3E-09	1.9E-08	60-37.6	7.06-09	2.3E-09	2.38-09	1.8E-08	60-35.6	7.06-09	3.5E-09	1.2E-09
F 0.5 3.9E-09 2.0E-08 1.1E-07 F 0.83 1.2E-09 8.8E-09 4.8E-08 F 0.83 1.3E-09 8.8E-09 4.8E-08 F 1 1.4E-09 6.8E-09 3.7E-08 F 2 5.9E-10 2.9E-09 1.0E-08 F 3 3.9E-10 2.0E-09 1.1E-08 F 0.83 1.8E-09 8.8E-09 4.8E-08 F 0.83 1.8E-09 8.8E-09 4.8E-08 F 1 1.4E-09 6.8E-09 4.8E-08 F 3 3.9E-10 2.0E-09 1.1E-08 G 0.83 1.6E-09 7.8E-08 4.2E-08 G 0.83 1.6E-09 7.8E-08 4.2E-08 G 0.83 1.6E-09 7.8E-08 4.2E-08 G 0.83 1.6E-09 7.9E-08 4.2E-08 G 0.8 3.9E-10 2.0E-09 1.1E-08 G	KR88	3.1E-08 1.4E-08	1,11.08	4.7E-09	3.18-09	3.0E-08	1,46-08	1.16-08	4.7E-09		2.5E-08	1.3E-08	60-35°6	3.16-09	3.1E-09	2.3E-08	1,3E-08	9.4E-09	4.7E-09	1.66-09
F 0.5 3.9E-09 2.0E-06 1.1E-15 F 0.83 1.2E-09 2.0E-09 4.2E-16 F 0.83 1.2E-09 6.2E-09 4.2E-16 F 1.4E-09 6.2E-09 1.7E-16 F 2.9E-10 2.9E-09 1.0E-16 F 0.5 3.7E-09 1.9E-09 4.2E-16 F 0.83 1.2E-09 6.2E-09 1.1E-16 F 0.83 1.2E-09 6.2E-09 1.1E-16 F 3.9E-10 2.9E-09 1.1E-16 F 3.9E-10 2.9E-09 1.1E-16 G 0.83 1.6E-09 7.2E-09 1.1E-16 G 0.83 1.6E-09 7.2E-09 1.1E-16 G 0.83 1.6E-09 7.9E-09 1.1E-16 G 0.83 1.6E-09 7.9E-09 1.1E-16 G 0.83 1.6E-09 7.9E-09 1.1E-16 G 0.83 1.6E-09 7.8E-09 <	KR87	7.8E-09 3.5E-09	2.7E-09	1.2E-09	7.86-10	7.4E-09	3.5E-09	2.7E-09	1.2E-09	7.8E-10	6.3E-09	3,16-09	2.3E-09	7.86-10	7.8E-10	5.9E-09	3.16-09	2.3E-09	1.2E-09	3.96-10
F 0.5 3.9E-09 F 0.83 1.8E-09 F 0.83 1.6E-09	KR85				. 20	2		3.7E-08	1.6E-08			4	78.	1.16-08	1.1E-08				1.6E-08	5.36-09
SECT DIST F 0.83	KR85M	2.0E-08 8.8E-09	6.8E-09	2.9E-09	2.08-09	1.9E-08	8.8E-09	6.86-09	2.9E-09	2.0E-09	1.6E-08	7.86-09	5.9E-09	2.0E-09	2.0E-09	1,56-08	7.86-09	5.96-09	2.96-09	9.8E-10
	KR83M	3.9E-09	1.46-09	5.96-10	3.96-10	3.7E-09	1.8E-09	1.4E-09	5.98-10	3.96-10	3. te-09	1.6€-09	1.2E-09	3.96-10	3.96-10	2.96-09	1.6E-09	1.2E-09	5.9E-10	2.0E-10
1315 1345 1445	ECT DIST	F 0.5	gar.	F 2	f 3	F 0.5	F 0.83	ger Us	F 2	M		6 0.83	9	5 9	6 3		6 0.83	9	5 9	6 3
	TIMES	1315				1345					1415					1445				

LONGRANGE WEATHER FORECAST

November 5, 1992

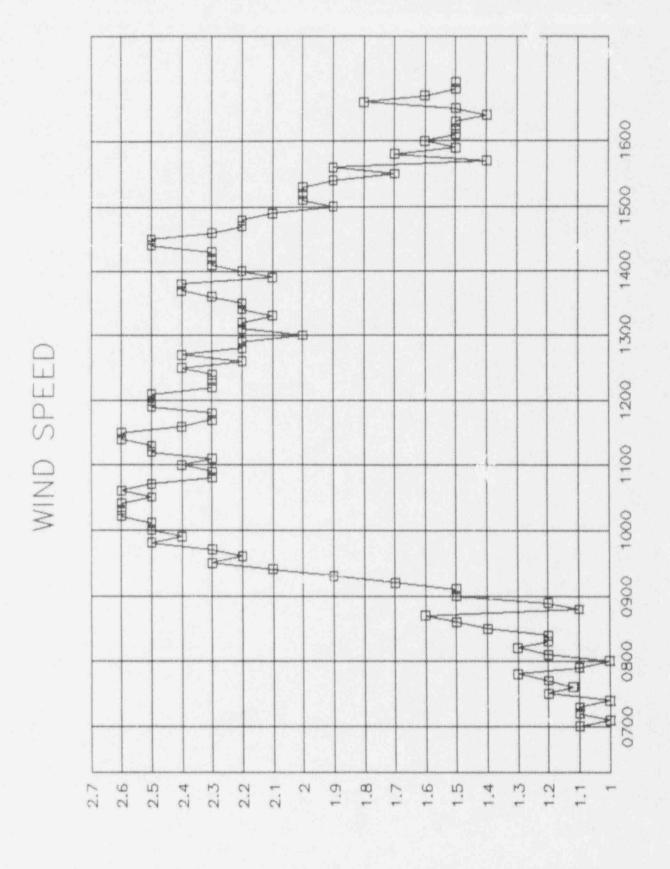
- Mostly sunny with light winds out of the northwest.
- 2. Temperatures should range from the low 60° s in the morning to the mid 70° s in the afternoon.
- 3. Chance of rain is about 10%.

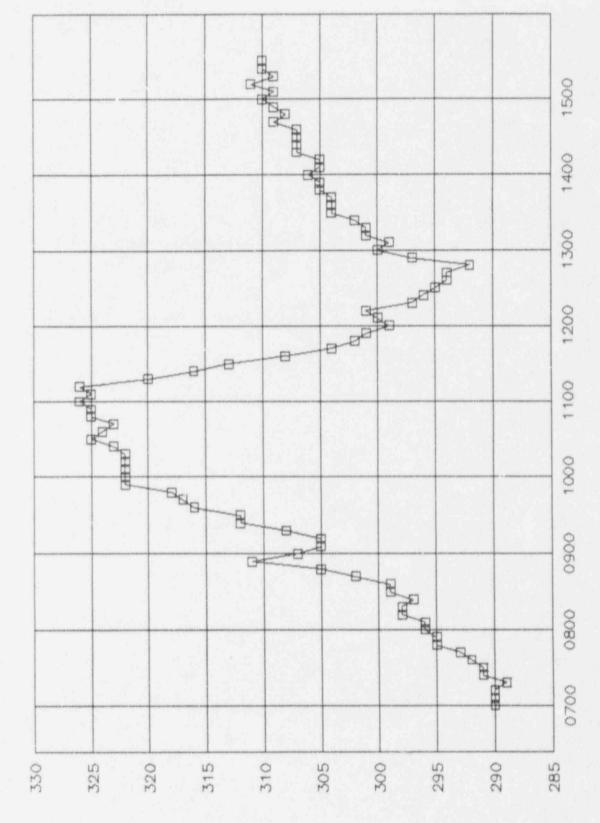
1992 RADIOLOGICAL EXERCISE METEOROLOGCAL DAT

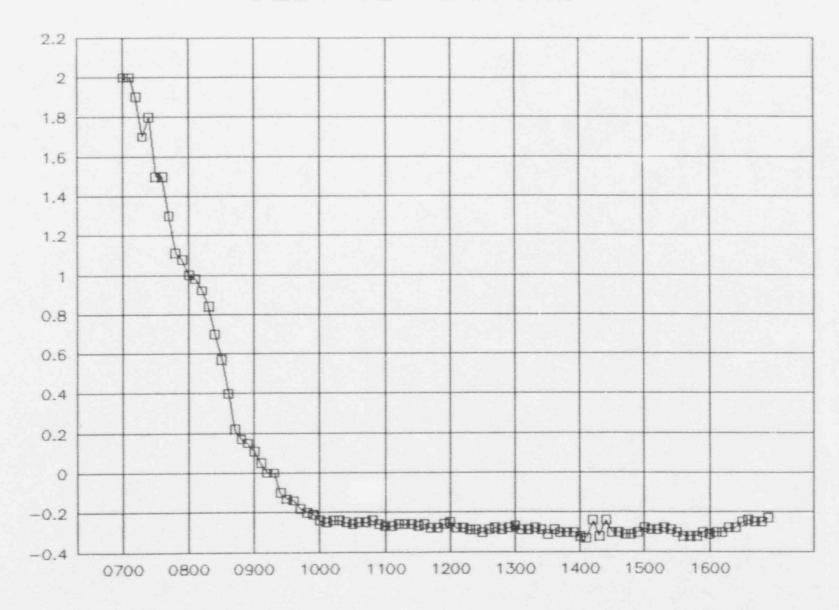
	WIND	WIND	DELTA	AIR
TIME	SPEED	DIR	TEMP	TEMP
0700	1.1	290	2.00	61
6	1.0	290	2.00	61
12	1.1	290	1.90	61
18	1.1	289	1.70	62
24	1.0	291	1.80	62
30	1.2	291	1.50	62
36	1.1	292	1.50	63
42	1.2	293	1.30	63
48	1.3	295	1.11	63
54	1.1	295	1.08	64
0800	1.0	296	1.00	65
6	1.2	296	0.98	65
12	1.3	298	0.92	65
18	1.2	298	0.84	66
24	1.2	297	0.70	66
30	1.4	299	0.57	67
36	1.5	299	0.40	66
42	1.6	302	0.22	67
48	1.1	305	0.17	68
54	1.2	311	0.15	69
0900	1.5	307	0.11	70
6	1.5	305	0.05	70
12	1.7	305	0.00	70
18	1.9	308	0.00	70
24	2.1	312	-0.10	70
30	2.3	312	-0.13	71
36	2.2	316	-0.14	71
42	2.3	317	-0.18	71
48	2.5	318	-0.20	71
54	2.4	322	-0.21	71
1000	2.5	322	-0.24	72
6	2.5	322	-0.25	72
12	2.6	322	-0.24	71
18	2.6	322	-0.24	72
24	2.6	323	-0.25	73
30	2.5	325	-0.26	73
36	2.6	324	-0.25	73
42	2.5	323	-0.25	74
48	2.3	325	-0.24	74
54	2.3	325	-0.26	74

	WIND	WIND	DELTA	AIR
TIME	SATE	DIR	TEMP	TEMP
1100	2.4	326	-0.27	73
6	2.3		-0.27	74
		325		
12	2.5	326	-0.26	74
18	2.5	320	-0.26	75
24	2.6	316	-0.26	75
30	2.6	313	-0.27	75
36	2.4	308	-0.26	75
42	2.3	304	-0.28	75
48	2.3	302	-0.28	76
54	2.5	301	-0.26	76
1200	2.5	299	-0.25	75
6	2.5	300	-0.28	76
12	2.3	301	-0.28	76
18	2.3	297	-0.29	75
24	2.3	296	-0.29	75
30	2.4	295	-0.30	75
36	2.2	294	-0.29	74
42	2.4	294	-0.28	75
48	2.2	292	-0.29	75
54	2.2	297	-0.28	76
1300	2.0	300	-0.27	76
6	2.2	299	-0.29	76
12	2.2	301	-0.29	76
18	2.1	301	-0.28	77
24	2.2	302	-0.29	77
30	2.2	304	-0.31	76
36	2.3	304	-0.29	76
42	2.4	304	-0.30	76
48	2.4	305	-0.30	74
54	2.1	305	-0.30	74
1400	2.2	306	-0.32	75
6	2.3	305	-0.33	76
12	2.3	305	-0.24	74
18	2.3	307	-0.32	75
24	2.5	307	-0.24	76
30	2.5	307	-0.30	75
36	2.3	307	-0.30	74
42	2.2	309	-0.31	74
48	2.2	308	-0.31	73
54	2.1	309	-0.30	73

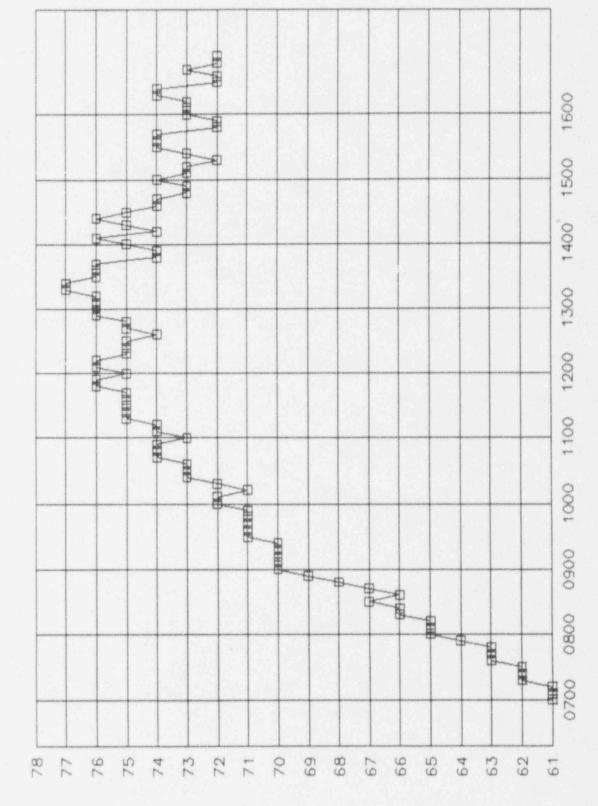
	WIND	WIND	DELTA	AIR
TIME	SPEED	DIR	TEMP	TEMP
1500	1.9	310	-0.28	74
6	2.0	309	-0.29	73
12	2.0	311	-0.29	73
18	2.0	309	-0.28	72
24	1.9	310	-0.29	73
30	1.7	310	-0.30	74
36	1.9	309	-0.32	74
42	1.4	311	-0.32	74
48	1.7	311	-0.32	72
54	1.5	311	-0.30	72
1600	1.6	312	-0.31	73
6	1.5	312	-0.30	73
12	1.5	312	-0.30	73
18	1.5	311	-0.28	74
24	1.4	312	-0.28	74
30	1.5	311	-0.25	72
36	1.8	310	-0.24	72
42	1.6	310	-0.25	73
48	1.5	311	-0.25	72
54	1.5	312	-0.23	72







AMBIENT TEMPERATURE



CRITIQUE GUIDELINES FOR CONTROLLERS

An informal participant's critique will be held immediately following the Exercise in the Control Room, Simulator, Technical Support Center, and the Emergency Operations Facility. Participant's Critique Forms should be distributed to all participants to encourage comments for inclusion (when appropriate) into the formal critique the following day.

A formal critique will be conducted at the Emergency Operations Facility. Participants from State and Local Governments will be invited to attend.

FPC Exercise Controllers will provide comments during this critique based on their observations. Comments should be categorized to clearly identify those areas requiring corrective actions, as follows:

Areas Requiring Corrective Actions (ARCAs)

These are areas which involve a deficiency in procedures, equipment, facilities, or training.

Concerns

Areas which do not involve specific program deficiencies but warrant review in appropriate training programs and/or by appropriate personnel.

When possible, recommended corrective actions should be included in the critique. The critique facilitator should however make it clear that all comments are preliminary and subject to change based on further participant interviews and data review.

EXERCISE PARTICIPANT'S CRITIQUE REPORT

Please provide your comments on the operation of the facility or performance of the team activity in which you were involved. Pay particular attention to deficiencies in procedures, equipment, facilities, or training. Was the designated leader of your facility/team in obvious control? Was there adequate communication to allow you to perform necessary functions? Give your recommended corrective actions.

DATE:

FACILITY/TEAM:

Description in the			
Prepared by: _			

Florida Power Corporation Crystal R - Unit 3 1992 Radiological Emergency Response Plan Exercise

Exercise Evaluation Criteria for Emergency Response Teams

KEY PERSONNEL AT THIS LOCATION:

EVAL	UATION		U	S	E
1.	Acti	vation and Response			
	1.	Was activation/initiation efficient and organized?	Antonio		
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?	_		
	3.	Was the person in charge clearly identifiable?			
11.	Comm	unication/Dissemination of Information			
	1.	Were all required/specified commu- nications systems operable?		**********	
	2.	Were personnel familiar with avail- able communications and the intended use of each?	and the state of t	NAMES SAMES AND	***************************************
	3.	Was the team adequately briefed prior to dispatch?	-	************	
	4.	Were communications between the team and the TSC adequate?		and the same of th	-
	5.	Were their sufficient personnel to conduct communications tasks?			-
	6.	Was incoming information effectively and efficiently distributed to appropriate personnel?	-		-
	7.	Was there a two-way exchange of infor- mation such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?		-	-

III.	Proc	edures			
	1.	Were personnel generally familiar with the relevant procedures?			_
	2.	Were procedures followed?			****
	3.	Were the procedures appropriate?	**********	*******	
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?			-
IV.	Dire	ction and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?			
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)		-	
	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?	-		
	5.	Did the team document/log its activities appropriately?	**********		
٧.	Mate	rial and Equipment			
	1.	Were all of the required materials and equipments available?	MAN AND ADDRESS	SECRETARION SECRETARION	
	2.	Was the equipment functional?			
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?		-	***************************************
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?	MERCHANIC		

VI.	Prote	ctive measures			
	1.	Were team members apprised of in-plant radiological conditions?	**********	-	**************************************
	2.	Were appropriate protective measures implemented? (if applicable)	***************************************	10.40 (00) (00)	-
	3.	Were all in-plant activities conducted with regard for personnel safety, consistent with the need to complete the activity?			-

VII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

VIII. Additional Comments:

Florida Power Corporation Crystal R Unit 3 1992 Radiological Emergency Response Plan Exercise

Exercise Evaluation Criteria for Control Room

LIST NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

KEY PERSONNEL AT THIS LOCATION:

Shift Supervisor: has ultimate control over all evolutions associated with operations of the plant that occur during his shift.

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

Excellent (E) indicates that personnel and / or equipment functioned at a level much greater than required or reasonable expected.

EVALU	MITTON		U	5	E
Ι.	Acti	vation and Response			
	1.	Was activation/initiation of the emergency plan efficient and organized?			
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?		-	
	3.	Was the person in charge clearly identifiable?			

C/R EVALUATION, cont'd.

II.	Commu	unication/Dissemination of Information			
	1.	Were all required/specified communications systems operable?			
	2.	Were personnel familiar with available communications and the intended use of each?			
	3.	Were communications adequate?		-	
	4.	Were there sufficient personnel to conduct communications tasks?			
	5.	Was incoming information effectively and efficiently distributed to appropriate personnel?			
	6.	Were offsite/onsite notifications performed as required? (NRC, State, FPC)	AND THE REAL PROPERTY.	_	
III.	Proce	dures (See procedures EM-103 and EM-202)			
	1.	Were personnel generally familiar with the relevant procedures?	-	-	
	2.	Were procedures followed?			
	3.	Were the procedures appropriate?			
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?		Amelinania	
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?			
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			
	3.	Could the response be categorized as a team effort or as a group of individual efforts?			

C/R	EVALUAT	ION, cont'd.			
	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			***************************************
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipment available?			-
	2.	Was the equipment functional?		-	****
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	submitted and substitute		
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?			
VI.	Prote	ctive Measures			
	1.	Were appropriate protective measures implemented? (if applicable)		-	

VII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

VIII. Additional Comments:

Florida Power Corporation Crystal River Unit 3 1992 Radiological Emergency Response Plan Exercise

Exercise Evaluation Criteria for
Dose Assessment/Environmental Monitoring EOF

PROVIDE NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

(Identify from attached list)

KEY PERSONNEL AT THIS LOCATION:

Corporate Health Physicist: Responsible for directing and controlling the dose assessment activities in the EOF, and for representing FPC in matters pertaining to off-site effects of a radiological accident.

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

Excellent (E) indicates that personnel and / or equipment functioned at a level much greater than required or reasonable expected.

EVAL	UATION	<u>:</u>	U	S	Ε
Ι.	Acti	vation and Response			
	1.	Was activation/initiation efficient and organized?			-
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?			
	3.	Was the person in charge clearly identifiable?		-	
	4.	Were the transfers of authority accom- plished quickly and effectively?	anamatan.		

DOSE ASS/ENV MON EVALUATION, cont'd.

II.	Commu	nication/Dissemination of Information			
	1.	Were all required/specified communications systems operable?			
	2.	Were personnel familiar with available communications and the intended use of each?			
	3.	Were communications adequate?			
	4.	Were their sufficient personnel to conduct communications tasks?		-	
	5.	Was incoming information effectively and efficiently distributed to appropriate personnel?			
	6.	Was there adequate communication between the Control Room, TSC, and EOF?	and the same of th		
	III.	Procedures (Refer to Procedures REP-03,	REP-04,	and REP	-09)
	1.	Were personnel generally familiar with the relevant procedures?		-	
	2.	Were procedures followed?			
	3.	Were the procedures appropriate?			
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?			
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	- Parante Carte Resident State (
	2.	Was adequate and timely guidance pro- vided by FPC Senior management?		P-1-12-2-2-1-1-1	
	3.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			and the state of t

DOSE	ASSESS	/ENV MON EVALUATION, cont'd.			
	4.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)			
	5.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipments available?			
	2.	Was the equipment functional?			
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?			
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?	_		
VI.	Prote	ctive Measures			
	1.	Were appropriate protective measures implemented? (if applicable)		Associates attracts	-
	2.	Did the environmental survey team members check their dosimetry at appropriate intervals?			
	3.	Were the appropriate on-site protective action recommendations made?		_	******
	4.	Did FPC personnel coordinate adequately with State of Florida dose assessment personnel?			
	5.	Were computerized dose projections appropriately compared to field team data for integration into the decision making process.	essent a suser	***************************************	

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DOSE ASSESS/ENV MON EVALUATION, cont'd.

VII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

VIII. Additional Comments:

Florida Power Corporation Crystal Ri Unit 3

1992 Radiological Emergency Response Plan Exercise

Exercise Evaluation Criteria for Dose Assessment/Environmental Monitoring TSC

PROVIDE NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

(Identify from attached list)

KEY PERSONNEL AT THIS LOCALION:

Dose Assessment Team Nuclear Chemistry and Radiation Protection Superintendent

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

Excellent (E) indicates that personnel and / or equipment functioned at a level much greater than required or reasonable expected.

EVAL	UATION:		U	2	£
Ι.	Activ	vation and Response			
	1.	Was activation/initiation efficient and organized?	-	AND TAXONIA	************
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?			
	3.	Was the person in charge clearly identifiable?	-		
	4.	Were the transfers of authority accom- plished quickly and effectively?		-	

DOSE ASS/ENV MON EVALUATION, cont'd.

II.	Commu	nication/Dissemination of Information			
	1.	Were all required/specitied commu- nications systems operable?			
	2.	Were personnel familiar with available communications and the intended use of each?		-	
	3.	Were communications adequate?	all and desirable from the	-	-
	4.	Were their sufficient personnel to conduct communications tasks?	And a street design		
	5.	Was incoming information effectively and efficiently distributed to appropriate personnel?			-
	6.	Was there adequate communication between the Control Room, TSC, and EOF?			
	III.	Procedures (Refer to Procedures EM-204A/	B, EM-21	9)	
	1.	Were personnel generally familiar with the relevant procedures?			-
	2.	Were procedures followed?	-	-	
	3.	Were the procedures appropriate?	National State (-	-
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?			
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	_		
	2.	Was adequate and timely guidance pro- vided by FPC Senior management?		Market States	-
	3.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?		-	

DOSE	ASSESS	S/ENV MON EVALUATION, cont'd.			
	4.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)			-
	5.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?		-	
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipments available?	**********		
	2.	Was the equipment functional?		********	
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?			
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?	-	-	
VI.	Prote	ective Measures			
	1.	Were appropriate protective measures implemented? (if applicable)		-	-
	2.	Did the environmental survey team members check their dosimetry at appropriate intervals?		_	
	3.	Were the appropriate on-site protective action recommendations made?		*********	
	4.	Did FPC personnel coordinate adequately with State of Florida dose assessment personnel?		Validation	
	5.	Were computerized dose projections appropriately compared to field team data for integration into the decision making process.		And Andread Association	

DOSE ASSESS/ENV MON EVALUATION, cont'd.

VII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

VIII. Additional Comments:

Florida Power Corporation Crystal River Unit 3 1992 Radiological Emergency Response Plan Exercise

Exercise Evaluation Criteria for Emergency News Center

LIST NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

KEY PERSONNEL AT THIS LOCATION:

EOF/ENC Information Coordinator: Responsible for activating and managing the Emergency News Center as an outlet for emergency related information during emergency and recovery phase activities.

ENC Technical Support Representative: Responsible for providing clarification of the technical terminology and operational concepts that must be understood in order to accurately report emergency activities.

Corporate Spokesperson(s): authorized to release emergency-related information outside of the Company.

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

Excellent (E) indicates that personnel and / or equipment functioned at a level much greater than required or reasonable expected.

EVAL	UATION:	U	S	Ε
I.	Activation and Response			
	1. Was activation/initiation efficient and organized?			
	Were personnel familiar with their responsibilities and did they respond in a timely manner?			

ENC EVALUATION, cont'd. Was the ENC physically ready for operation at the time the EOF was declared operational? Was the person in charge clearly identifiable? Communication/Dissemination of Information II. Were all required/specified communications systems operable? 2. Were personnel familiar with available communications and the intended use of each? Were communications adequate? 3. Were their sufficient personnel to 4. conduct communications tasks? 5. Did the ENC staff successfully acquire emergency related information from the ENC? 6. Was incoming information effectively and efficiently distributed to appropriate personnel? Was the FPC interface with State/Local 7. Public Information Officers appropriate and effective? 8. Was the Technical Advisor used effectively to provide clarification of technical and operational terminology? 9. Were the status boards utilized effectively? III. Procedures (Refer to Procedure REP-08) Were personnel generally familiar 1. with the relevant procedures? 2. Were procedures followed?

Were the procedures appropriate?

What was your overall assessment of the overall level of competency and state of training of the personnel?

3.

4.

ENC EVALUATION, cont'd.

press?

LING	LINLUN	Tron, cont a.			
IV.	Direc	ction and Control			
	1,	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?			All Paradossis and
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			
	3.	Did prepared information releases receive appropriate approvals prior to presentation outside the Company?		And observations	
	4.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)			
	5.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?		-	
٧.	Mate	rial and Equipment			
	1.	Were all of the required materials and equipment available?	**********		************
	2.	Was the equipment functional?		-	-
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	THE REST STREET	***************************************	
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?			
	5.	Could the ENC support the personnel assigned to it?	Mark or continuous	18/07 STORING STORING	-
	6.	Were press briefings conducted in an organized and professional manner?		and the second second	
	7.	Were there resource materials readily available for distribution to the			

Protective Measures				
1.	Were appropriate protective measures implemented? (if applicable)	********		
Access Control				
1.	Was an appropriate security posture established against unauthorized personnel?			
2.	Was an identification system used that effectively identified authorized personnel and their duties?		-	
	Acces	 Were appropriate protective measures implemented? (if applicable) Access Control Was an appropriate security posture established against unauthorized personnel? Was an identification system used that effectively identified authorized 	1. Were appropriate protective measures implemented? (if applicable) Access Control 1. Was an appropriate security posture established against unauthorized personnel? 2. Was an identification system used that effectively identified authorized	

VIII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

IX. Additional Comments:

ENC EVALUATION, cont'd.

Florida Power Corporation Crystal River Unit 3 1992 Radiological Emergency Response Plan Exercise

Exercise Evaluation Criteria for Emergency Operations Facility

LIST NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

(Attach REP-03 Accountability Logs or list names and position)

KEY PERSONNEL AT THIS LOCATION:

EOF Director: Assumes Corporate responsibility for control and mitigation of the emergency, and exercises authority-of-position to acquire and use Corporate resources for control and mitigation of the emergency.

Assistant EOF Director: Responsible for assisting the EOF Director in management of the EOF.

EOF Facility Manager: Responsible for assuring that the EOF is set up and available for use in a timely manner.

State and Local Gov't Liaison: Responsible for providing the State and local government representatives in the EOF a means of communicating with the FPC emergency organization concerning coordination between FPC and their emergency assistance teams.

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory 'S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

Excellent (E) indicates that personnel and / or equipment functioned at a level much greater than required or reasonably expected.

EVAL	EVALUATION:		U	5	E
Ι.	Acti	vation and Response			
	. 1, -	Was activation/initiation efficient and organized?	-		
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?	-		NV 4000-4004 SPIN

EOF EVALUATION, cont'd.

	3.	Was the EOF declared operational within 60 minutes of the decision to activate?			-		
	4.	Were the required personnel present at the time the EOF was declared opera- tional?	And Administration of the Control of	interestation.			
	5.	Was the facility physically ready for operation at the time it was declared operational?	THE REAL PROPERTY.	Inductive Supplement			
	6.	Was the person in charge clearly identifiable? (i.e. State notification, protective actions, etc.)	********		-		
	7.	Were the transfers of responsibili- ties accomplished efficiently and effectively?	-mile limes	TOTAL PROPERTY.			
	8.	Were all participants made aware via formal announcement that the transfers had occurred?	-				
II.	Communication/Dissemination of Information						
	1.	Were all required/specified commu- nications systems operable?					
	2.	Were personnel familiar with avail- able communications and the intended use of each?	- Annalysis and				
	3.	Were communications adequate?	-	-	-		
	4.	Were there sufficient personnel to conduct communications tasks?		-	-		
	5.	Was incoming information effectively and efficiently distributed to appropriate personnel?	**********				
	6.	Were periodic update announcements made to the EOF staff?	Sant Annahista				
	7.	Did communicators keep accurate logs?			-		

EOF E	EVALUAT	TION, Cont'd.				
	8.	Were the status boards used effectively?	-			
	9.	Were offsite personnel kept informed of plant status/activity?		and a contract of the contract		
	10.	Was their a two-way exchange of infor- mation such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?	***************************************			
III.	Procedures (Refer to Procedures REP-03)					
	1.	Were personnel generally familiar with the relevant procedures?				
	2.	Were procedures followed?			****	
	3.	Were the procedures appropriate?		-		
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?	-	***************************************		
IV.	Direction and Control					
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	_			
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?	-			
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)			***************************************	
	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			-	
٧.	Material and Equipment					
	1.	Were all of the required materials and equipments available?			-	

EOF	EVALUATION, cont'd.				
	2.	Was the equipment functional?	management having control		
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?			
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?			
	5.	Could the EOF support the personnel assigned to it?			
	6.	Were there resource materials readily available to assess the emergency situation and to plan corrective action?			
VI.	Protective Measures				
	1.	Were appropriate protective measures implemented? (if applicable)			
	2.	Were EOF personnel kept apprised of in-plant radiological conditions?	minimization approximation temperature	-	
VII.	Access	Control			
	1.	Was an appropriate security posture established against unauthorized personnel?	mercania anticida atron	-	
	2.	Was an identification system used that effectively identified authorized personnel and their duties?	proposition and discharge according		

VIII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

IX. Additional Comments:

Exercise Evaluation Criteria for Emergency Repair Team

PROVIDE NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

(Identify from attached list)

KEY PERSONNEL AT THIS LOCATION:

Emergency Repair Team Leader Emergency Repair Teams

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

EVAL	UATION		U	S	E
Ι.	Acti	vation and Response			
	1.	Was activation/initiation efficient and organized?		***	
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?		-	
	3.	Was the person in charge clearly identifiable?	-	*******	
II.	Comm	unication/Dissemination of Information			
	1.	Were all required/specified commu- nication systems operable?		-	

	2.	able communications and the intended use of each?	*********		
	3.	Was the team adequately briefed prior to dispatch?	-		
	4.	Were communications between the team and the TSC adequate?		-	
	5.	Were their sufficient personnel to conduct communications tasks?			-
	6.	Was incoming information effectively and efficiently distributed to appropriate personnel?			
	7.	Was there a two-way exchange of information such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?			
III.	Proce	dures (Refer to Procedures EM-209 and EM-	-218)		
	1.	Were personnel generally familiar with the relevant procedures?			
	2.	Were procedures followed?			
	3.	Were the procedures appropriate?			
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?	***************************************		
Ι¥.	Direc	tion and Control			
	1,	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?			-
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?		reliate relevantes	
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)	-		

	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			Entertain Atlant
	5.	Did the team document/log its activities appropriately?	Service Applications	*********	
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipments available?	***************************************	COMMERCIAL	
	2.	Was the equipment functional?		-	
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	MANAGEMENT AND ASSESSED.	***************************************	
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?			
VI.	Prote	ective Measures			
	1.	Were team members apprised of in-plant radiological conditions?	one allowing contact	**********	
	2.	Were appropriate protective measures implemented? (if applicable)	***************************************	*****	
	3.	Were all in-plant activities conducted with regard for personnel safety, consistent with the need to complete the activity?			

Exercise Evaluation Criteria for Fire Brigade

PROVIDE NAMES OF FIRE BRIGADE MEMBERS AND THE FIRE TEAM LEADER:

(Identify from attached list)

KEY PERSONNEL AT THIS LOCATION:

Fire Brigade Team Leader Fire Brigade Members

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

EVAL	JATION		U	S	E
Ι.	Acti	vation and Response			
	1.	Was activation/initiation efficient and organized?	-	- Carried Salary	
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?			
	3.	Was the person in charge clearly identifiable?	- Contraction of the Contraction		-
11.	Comm	nunication/Dissemination of Information			
	1.	Were all required/specified commu-		-	

	2.	were personnel familiar with avail- able communications and the intended use of each?			
	3.	Was the team adequately briefed prior to dispatch?	Annual State of State	alan addition to	-
	4.	Were communications between the team and the TSC adequate?			
	5.	Were their sufficient personnel to conduct communications tasks?	************		
	6.	Was incoming information effectively and efficiently distributed to appropriate personnel?	***************************************	**************************************	
	7.	Was there a two-way exchange of infor- mation such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?	-	- No. of Application	
III.	Proce	dures (Refer to Procedures EM-201 and EM-	-216)		
	1.	Were personnel generally familiar with the relevant procedures?	-		
	2.	Were procedures followed?	-	-	-
	3.	Were the procedures appropriate?	-	-	
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?			-
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?		-	
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)		and management	

	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?		Shall a later week to like a	
	5.	Did the team document/log its activities appropriately?	********	-	-
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipments available?			-
	2.	Was the equipment functional?			
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	- Million million and an all an		
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?		-	sampled trains
VI.	Prote	ctive Measures			
	1.	Were team members apprised of in-plant radiological conditions?			
	2.	Were appropriate protective measures implemented? (if applicable)		-	********
	3.	Were all in-plant activities conducted with regard for personnel safety, consistent with the need to complete the activity?			

Exercise Evaluation Criteria for Medical Emergency Team

PROVIDE NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

KEY PERSONNEL AT THIS LOCATION:

Medical Emergency Team Leader Assistant Nuclear Shift Supervisor

EVALUATION CRITERIA:

CHAILIAT TON

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

EVAL	UATION	4	U	2	E
ĭ.	Acti	vation and Response			
	1.	Was activation/initiation efficient and organized?	-		
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?			
	3.	Was the person in charge clearly identifiable?			

II.	Communication/Dissemination of Information						
	1.	Were all required/specified commu- nications systems operable?	-				
	2.	Were personnel familiar with avail- able communications and the intended use of each?					
	3.	Was the team adequately briefed?					
	4.	Were communications between the team and the Control Room adequate?		**************************************			
III.	Proce	edures (Refer to Procedure EM-213)					
	1.	Were personnel generally familiar with the relevant procedures?					
	2.	Were procedures followed?	-	-	school control		
	3.	Were the procedures appropriate?	mineral entered	National Section 1			
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?	estroles substants		-		
IV.	Direc	ction and Control					
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	_		-		
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?					
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)			-		
	4.	Was there an effective mechanism for resolving differences of opinion regarding medical issues or actions to be taken?		Printer land de la constante d			
	5.	Did the team document/log its activities appropriately?	-		-		

٧.	Mate	rial and Equipment		
	1.	Were all of the required materials and equipments available?		
	2.	Was the equipment functional?	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN	
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?		
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?		***************************************
VI.	Prot	ective Measures		
	1.	Were team members apprised of in-plant radiological conditions?		
	2.	Were appropriate protective measures implemented? (if applicable)		-
	3.	Were all in-plant activities conducted with regard for personnel safety, consistent with the need to complete the activity?		THE PARTY AND PROPERTY AND

VIII. Additional Comments:

Exercise Evaluation Criteria for Sampling Team

PROVIDE NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

(Identify from attached list)

KEY PERSONNEL AT THIS LOCATION:

Sampling Team Leader Sampling Team Members

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (5) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

EVAL	UATION	<u>V:</u>	U	S	E
Ι.	Acti	ivation and Response			
	1.	Was activation/initiation efficient and organized?	***************************************	*******	
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?			
	3.	Was the person in charge clearly identifiable?			
II.	Comm	nunication/Dissemination of Information			
	1.	Were all required/specified commu- nications systems operable?			

	2.	Were personnel familiar with avail- able communications and the intended use of each?			
	3.	Was the team adequately briefed prior to dispatch?			
	4.	Were communications between the team and the TSC adequate?	***************************************	Anne A Maria de Maria	
	5.	Were there sufficient personnel to conduct communications tasks?		STREET, MARKET	
	6.	Was incoming information effectively and efficiently distributed to appropriate personnel?		-	-
	7.	Was there a two-way exchange of infor- mation such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?	-	A-100-1-100-1-100	
III.	Proce	dures (Refer to Procedures EM-209, EM-217)		
	1.	Were personnel generally familiar with the relevant procedures?			
	2.	Were procedures followed?	And the Control of th	***************************************	
	3.	Were the procedures appropriate?			
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?	_	-	
IV.	Direct	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	*College State Sta	Or of the latest services.	Property of Personal
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)			*****

	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			
	5.	Did the team document/log its activities appropriately?	10,300.00 (0.000.00	THE RESIDENCE OF	
٧.	Mater	rial and Equipment			
	1.	Were all of the required materials and equipment available?	non-suppression formation	-	ANY CONTRACTOR OF
	2.	Was the equipment functional?			
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?		SHERMAN	
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?			***********
VI.	Prote	ective Measures			
	1.	Were team memhers apprised of in-plant radiological conditions?			
	2.	Were appropriate protective measures implemented? (if applicable)	and the second second		
	3.	Were all in-plant activities conducted with regard for personnel safety, consistent with the need to complete the activity?	The second division		and designation a financial

Exercise Evaluation Criteria for Operational Support Center

	Operational	Support Cer	nter		
LIST NAMES OF PART	ICIPANTS AND THE	R EMERGENCY	POSITION:		
OSC Repair Team Le	ader:	Chief	Nuc. Electr	ician:	
Communications:		Chief	Nuc. Tech.	Support '	Tech:
Electrical/I&C Sup	er:	Healt	h Physics Te	ch:	
Master Mechanic:					
KEY PERSONNEL AT I					
OSC Repair Team Le					
EVALUATION CRITERI	A:				
Unacceptable (U) is expectations. Provided that is evaluated	vide explanatory c	onnel and / omments conc	or equipment erning any o	performe bserved r	d belo espons
Satisfactory (S) adequately. Any e	indicates that p xceptions were mi	ersonnel and nor and eas	d / or equi ily correcti	pment pe	rforme
Excellent (E) indi level much greater	cates that person than required on	nnel and / o reasonable	r equipment expected.	function	ed at
EVALUATION:			U	s	Ε
I. Activation a	nd Response				
and or	tivation/initiate ganized? note time that 05				
respor respor (Provi	ersonnel familian sibilities and di d in a timely man de job titles of ed to the OSC)	d they ner?			

Was the person in charge clearly identifiable?

OSC EVALUATION, cont'd.

II.	Communication/Dissemination of Information			
	 Were all required/specified commu- nications systems operable? 		-	
	Were personnel familiar with available communications and the intended use of each?			-
	3. Were communications adequate?	and the same of		
	4. Were their sufficient personnel to conduct communications tasks?	The Assemble of Marian III	-	
	5. Was incoming information effectively and efficiently distributed to appropriate personnel?	and the second second		
III.	Procedures (Refer to procedure EM-102)			
	 Were personnel generally familiar with the relevant procedures? 		**************************************	
	2. Were procedures followed?		-	
	3. Were the procedures appropriate?	-	-	
	4. What was your overall assessment of the overall level of competency and state of training of the personnel observed?	_		
IV.	Direction and Control			
	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	46.07 (004.00)	- Maria Maria Maria	***************************************
	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?	principa di la spin		
	3. Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)		AND PROPERTY.	-

OSC	EVALUAT	TION, cont'd.			
	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?	ner desputations		AND THE RESIDENCE OF THE PARTY
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipments available?	-		
	2.	Was the equipment functional?	_		-
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	_		
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?	manufacture and the second		
	5.	Was there a request for additional material/equipment not currently provided?		-	
VI.	Prote	ective Measures			
	1.	Were appropriate protective measures implemented? (if applicable)		NAME OF TAXABLE PARTY.	-
	2.	Were OSC personnel kept apprised of in-plant radiological conditions?			***********
	3.	Were all in-plant activities con- ducted with regard for personnel safety, consistent with the need to complete the activity?			-
	4.	Was the evacuation of the OSC conducted safely and efficiently? (if applicable)		Market Mark	

OSC EVALUATION, cont'd.

VII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

VIII. Additional Comments:

Exercise Evaluation Criteria for Security / Personnel Accountability

KEY PERSONNEL AT THIS LOCATION:

Shift Supervisor: has ultimate control over all evolutions associated with operations of the plant that occur during his shift.

EVALUATION CRITERIA:

FUEL HATTON

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (5) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctable.

EVAL	UATION:		υ	2	E
1.	Activ	vation and Response			
	1.	Was activation/initiation of the emer- gency plan efficient and organized?		*******	
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?	aparticular salar	**********	-
	3.	Was the person in charge clearly identifiable?		-	-
II.	Commu	unication/Dissemination of Information			
	1.	Were all required/specified communications systems operable?			
	2.	Were personnel familiar with available communications and the intended use of each?	*********	and the same	
	3.	Were communications adequate?			

SECURITY EVALUATION, cont'd.

	4.	Were their sufficient personnel to conduct communications tasks?			***************************************
	5.	Was incoming information effectively and efficiently distributed to appropriate personnel?			NE SAN DE DA
	6.	Was there a two way exchange of information such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?			***************************************
	7.	Was there adequate communication between the SAS and the CAS?		***********	
III.	Proce	dures (Refer to procedures EM-205 and	EM-211)		
	1.	Were personnel generally familiar with the relevant procedures?		- Control Control	-
	2.	Were procedures followed?		-	
	3.	Were the procedures appropriate?		Marine Mari	-
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?			************
	5.	Was accountability achieved within 30 minutes? Were they able to locate those not accounted for within a reasonable time?	and the second second		
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	**********	**************************************	MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?			-
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)	And the second second		

SECURITY EVALUATION, cont'd. Material and Equipment Were all of the required materials and equipments available? Was the equipment functional?

VI. Protective Measures

Were appropriate protective measures implemented? (if applicable)

Access Control VII.

- Was an appropriate security posture established against unauthorized personnel?
- 2. Were incoming support personnel (ambulances, etc.) provided appropriate access in a timely manner?
- Was there an effective method for 3. identifying those personnel on plant staff who were part of the emergency response?

VIII. Describe any problems or deficiencies that were noted, and provide recommended corrective action if available.

IX. Additional Comments:

Exercise Evaluation Criteria for Technical Support Center

	recilirear suppor		
LIST NAMES	OF PARTICIPANTS AND THEIR EMER	RGENCY POSITION:	
Emergency C	oordinator:	Repairs:	
Dose Assess	ment:	Fire Assessme	nt:
Security:		Medical:	
Accident As	sessment:	HPN Talker:	
Communicati	ons/Report Prep:	Procurement:	
Engineering		Others:	
KEY PERSONN	EL AT THIS LOCATION:		
including a responsible	coordinator: Responsible for opproval of information reporte for all activities at the operation of the commergency at CR3.	d to outside organization	ons. Also
EVALUATION	CRITERIA:		
expectation	e (U) indicates that personnel s. Provide explanatory comment luated as unacceptable.		
	y (5) indicates that personn Any exceptions were minor ar		performed
Excellent (E) indicates that personnel argreater than required or reason	nd / or equipment functi onable expected.	oned at a
EVALUATION:		U S	E
I. Activ	ation and Response		
1.	Was activation/initiation effand organized?	ficient	
2.	Were personnel familiar with responsibilities and did the		

respond in a timely manner?

TSC EVALUATION, cont'd.

	3.	Was the TSC declared operational within 60 minutes of declaration of ALERT? How long?			
	4.	Was the facility physically ready for operation at the time it was declared operational?	relate of statements		
	5.	Were the required personnel present at the time the TSC was declared opera- tional?	and the participant of the parti		
	6.	Was the person in charge clearly identifiable?	4.0000		-
	7.	Were the transfers of responsi- bilities accomplished efficiently and effectively?			
	8.	Were all participants made aware via a formal announcement that the transfers had occurred?			-
II.	Commu	nication/Dissemination of Information			
	1.	Were all required/specified commu- nications systems operable?			
	2.	Were personnel familiar with available communications and the intended use of each?	CHARLESTANIA		SECRETARIA DE LA COMPANSA DEL COMPANSA DEL COMPANSA DE LA COMPANSA
	3.	Were communications adequate?	-		-
	4.	Were their sufficient personnel to conduct communications tasks?			
	5.	Was incoming information effectively and efficiently distributed to appropriate personnel?	AND CONTRACTOR OF THE PARTY OF		-
	6.	Were periodic update announce- ments made to the TSC staff?		***************************************	
	7.	Did communicators keep accurate logs?	-		-
	8.	Were the status boards used effectively?	************		Accompanies

TSC	EVALUAT	TION, cont'd.			
	9.	Was there a two-way exchange of information such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?			-
III.	Proce	edures (Refer to procedures EM-102 and	EM-202)		
	1.	Were personnel generally familiar with the relevant procedures?	-		-
	2.	Were procedures followed?			
	3.	Were the procedures appropriate?			
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?	_		-
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	-	Manufacture Assessed	
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?	T-STATE AND THE STATE OF		********
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)	tribute tuings	*********	
	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			
٧.	Mater	ial and Equipment			
	1.	Were all of the required materials and equipments available?		-	1
	2	Was the equipment functional?			

TSC	EVALUAT	ION, cont'd.	
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?	
	5.	Could the TSC support the personnel assigned to it?	
	6.	Were there resource materials readily available to assess the emergency situation and to plan corrective action?	
VI.	Prote	ctive Measures	
	1.	Were appropriate protective measures implemented? (if applicable)	
	2.	Were TSC personnel kept apprised of in-plant radiological conditions?	tel section delle section commerce sections
	3.	Was the normal radiological control program appropriately modified to contend with the emergency radiological conditions?	
VII.	Access	Control	
	1.	Was an appropriate security posture established against unauthorized personnel?	Active de defendantes accessivas de la constante productiva della constante
	2.	Was an identification system used that effectively identified authorized personnel and their duties?	MEN MELET MENTAL MANAGEMENT AND ANALYSIS ANALYSIS AND ANA

IX. Additional Comments:

Exercise Evaluation Criteria for Radiation Monitoring Team

PROVIDE NAMES OF PARTICIPANTS AND THEIR EMERGENCY POSITION:

(Identify from attached list)

KEY PERSONNEL AT THIS LOCATION:

Radiation Monitoring Team Leader Radiation Monitoring Team Members

EVALUATION CRITERIA:

Unacceptable (U) indicates that personnel and / or equipment performed below expectations. Provide explanatory comments concerning any observed response that is evaluated as unacceptable.

Satisfactory (S) indicates that personnel and / or equipment performed adequately. Any exceptions were minor and easily correctible.

EVAL	MOITAU	<u>t:</u>	U	S	E
I.	Acti	vation and Response			
	1.	Was activation/initiation efficient and organized?		********	
	2.	Were personnel familiar with their responsibilities and did they respond in a timely manner?	***********		
	3.	Was the person in charge clearly identifiable?			
11.	Comm	nunication/Dissemination of Information			
	1.	Were all required/specified commu- nications systems operable?			

	2.	were personnel familiar with avail- able communications and the intended use of each?		***************************************	
	3.	Was the team adequately briefed prior to dispatch?	-	SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS	
	4.	Were communications between the team and the TSC adequate?		e Sarriageniane	A PERSONAL PROPERTY.
	5.	Were there sufficient personnel to conduct communications tasks?			
	6.	Was incoming information effectively and efficiently distributed to appropriate personnel?			
	7.	Was there a two-way exchange of infor- mation such that personnel understood the changing situation and were able to effectively contribute to accident assessment and mitigation?			
III.	Proce	edures (Refer to Procedure EM-210)			
	1.	Were personnel generally familiar with the relevant procedures?	-	-	
	2.	Were procedures followed?	and the second	**********	-
	3.	Were the procedures appropriate?			-
	4.	What was your overall assessment of the overall level of competency and state of training of the personnel observed?			
IV.	Direc	tion and Control			
	1.	Was the information flow from the personnel observed to Senior management timely, complete, and accurate?	***************************************	-	
	2.	Did the individual in charge become too deeply involved in a specific activity to the exclusion of other activities?		Manhadrana	
	3.	Could the response be categorized as a team effort or as a group of individual efforts? (U = Individual E = Team)		******	*********

	4.	Was there an effective mechanism for resolving differences of opinion regarding technical issues or actions to be taken?			
	5.	Did the team document/log its activities appropriately?	-		
٧.	Mater	rial and Equipment			
	1.	Were all of the required materials and equipment available?	AND ADDRESS AND AD	and the same of th	Telephone I
	2.	Was the equipment functional?			
	3.	Did personnel check to assure that all equipment was available and functional early in the activation process?	contribution and		
	4.	If equipment was inoperative or failed in use were appropriate actions taken to resolve the deficiency?		-	
VI.	Prote	ective Measures			
	1.	Were team members apprised of in-plant radiological conditions?			
	2.	Were appropriate protective measures implemented? (if applicable)			-
	3.	Were all in-plant activities conducted with regard for personnel safety, consistent with the need to complete the activity?			