

1. INTRODUCTION

The South Texas Project Electric Generating Station (STPEGS), and offsite agencies annually conduct Emergency Preparedness Drills and Exercises for the purpose of demonstrating that the STPEGS Emergency Response Organization, and offsite agencies can effectively meet their responsibilities in protecting the health and safety of the residents of the Plume Exposure Pathway Emergency Planning Zone in the event of a radiological incident at the plant. Exercises simulate accident conditions and radiological hazards that require major portions of utility, state and local emergency response plans and procedures to be implemented on a routine basis.

This Exercise is designed to demonstrate that designated individuals and agencies are adequately trained and supported by adequate procedures and equipment to respond effectively to a radiological emergency at STPEGS. Exercises are evaluated and critiqued by the Emergency Response staff and selected trained evaluators. The Exercise scenario is sufficient to require complete activation of the STPEGS emergency response organization and selected offsite agency facilities for accident mitigation.

This Exercise will be conducted on August 10, 2004, onsite Emergency Response activities will be conducted by STPEGS ERO personnel and evaluated by STPEGS personnel. Upon termination of the Exercise, the STPEGS Evaluators will critique the response of the players, assess the effectiveness of their response, and compile an Exercise Report for distribution to management to ensure appropriate actions are taken to resolve any identified areas for improvement.

This scenario covers the Plume Exposure Pathway portion of the Ingestion Pathway Exercise scheduled for August 10-11, 2004. The Ingestion Pathway scenario can be found under separate cover.

This Exercise Manual provides all information required supporting successful conduct and evaluation of the Exercise. Exercise participants will not have prior knowledge of the scenario, sequence of events, or plume release information regarding times, content, size and weather pattern used, with the exception of normal weather forecasts available onsite. It is to be used by the Controllers and Evaluators to ensure that consistent and accurate data is provided to Players during the course of their response to the sequence of events. The Exercise manual is organized as follows:

Section 1.0 Introduction - this section sets forth the basic format for the manual.

Section 2.0 Objectives - this section sets forth the objectives to be met by the Station and Emergency Response Organization in the conduct of the Exercise.

Section 3.0 Guidelines - this section sets forth the guidelines, which govern the extent of participation to be followed by the participants in the conduct of the Exercise.

Section 4.0 Scenario - this section contains the information that comprises the postulated accident that must be mitigated.

Subsection 4.1-4.4 Scenario - these subsections describe the postulated initial conditions and timeline sequence of events occurring at STPEGS and at various locations which will require the Station Emergency Response Organizations to respond.

Subsection 4.5 On Site Messages - this subsection contains copies of the Exercise messages, which will be utilized to control the development of the Exercise scenario.

Subsection 4.6 Supplemental Scenarios - this subsection contains time-related information concerning the various work in progress and scenario generated malfunctions of equipment.

Subsection 4.7 Offsite and JIC (Joint Information Center) Messages - this subsection contains copies of the Exercise messages to be used at the JIC and Offsite participants to define and describe the scenario offsite.

Subsection 4.8-4.8.3 Radiological Information - these subsections contain time related information concerning radiological conditions at the various onsite monitoring locations which corresponds to the development of the Exercise scenario. Also included in these subsections are information related to primary and secondary system radiochemistry, containment atmosphere radiochemistry, radiological release rates, and in-plant radiation levels.

Subsection 4.8.4 Meteorological Information - this subsection contains meteorological information including temperature, wind direction, wind speed and delta T indicating stability class, for Dose Assessment, Assembly and Accountability, and evacuation activities.

Subsection 4.8.5 Onsite Plume Data- this subsection contains information related to onsite radiological plume data during the release phase:

Subsection 4.8.6 Offsite Plume Data- this subsection contains information related to offsite radiological plume data during the release phase.

Subsection 4.8.6.1 State Plume Data- this subsection contains information related to offsite radiological plume data during the release phase.

Section 4.9 Plant Data - this section contains information related to the primary, secondary, and effluent parameters as displayed on the plant Integrated Computer System (ICS).

Section 5.0 Controllers Instructions - this section provides general instructions to the Exercise controllers in the conduct of the Exercise, any required special instructions for the controllers and a Controller/Evaluator list.

Section 6.0 Evaluation Material- this section provides evaluation checklists to the controllers and/or evaluators for evaluating responses of the participants and the overall performance of the Exercise.

Section 7.0 Support Documents- this section contains existing plant condition work packages and tag outs.

2.0 SCOPE AND OBJECTIVES

2.1 Scope

The South Texas Project Electric Generating Station (STPEGS) Emergency Preparedness Exercise, to be conducted on August 10, 2004, has been developed to support demonstration of the capabilities of the South Texas Project emergency response organizations. The Exercise will test and provide the opportunity to evaluate the emergency plans and procedures of the South Texas Project. Additionally, it will test the ability of participants to assess and respond to emergency conditions and coordinate activities to protect the health and safety of individuals in the plant and in the vicinity of STPEGS from the consequences of a radiological incident. The Exercise will include full activation and participation of the South Texas Project emergency facilities, which will be, evaluated by STPEGS evaluators.

In addition, the Exercise will provide the South Texas Project with the opportunity to assess the effectiveness of training improvements and modifications made to the emergency plans and procedures since the last Exercise.

The following summary indicates which emergency response facilities will participate in this Exercise:

STP Nuclear Operating Co.

| | |
|---------------------------------------|--------|
| Control Room (CR) Simulator - | STPEGS |
| Technical Support Center (TSC) - | STPEGS |
| Operations Support Center (OSC) - | STPEGS |
| Emergency Operations Facility (EOF) - | STPEGS |

State of Texas/Matagorda County

| | |
|---|-----------------|
| Bureau of Radiation Control Operations | STPEGS-EOF |
| Joint Information Center | Bay City, Texas |
| County Emergency Operations Center (EOC) | Bay City, Texas |
| State Operations Center | Austin, Texas |
| Disaster District Emergency Operations Center | Pierce, Texas |

2.2 Onsite Objectives

Exercise objectives are provided under this heading. Objectives provide a basis for scenario development and a means to evaluate responses by the Emergency Response Organization.

The STPEGS radiological emergency preparedness Exercise objectives are based on Nuclear Regulatory Commission (NRC) requirements provided in 10 CFR

50.47, "Emergency Plans", and 10 CFR 50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities". Additional guidance provided in NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," was utilized in developing the objectives. This Exercise will evaluate the Risk Significant Planning Standards of 10CFR50.47 (8) emergency classification and action level scheme, (10) notification of state and county, (7) assess consequences of a radiological release, and (20) protective action decisions.

This Exercise meets the requirement for a semi-annual Health Physics Exercise in accordance with NUREG 0654 N.2.e. This Exercise involves response to, and analysis of, simulated elevated airborne and direct radiation measurements in the environment. (Objectives 17 and 18)

This Exercise meets the requirements for a Communications Exercise in accordance with NUREG 0654 N.2.a. Communications between the nuclear facility, state and local Emergency Operations Centers and field assessment teams will be demonstrated. (Objectives 11 and 13)

This Exercise meets the requirements for an Exercise in accordance with NUREG 0654 N.1.a. This Exercise will simulate an emergency that results in offsite radiological releases, which will require response by actual and simulated offsite authorities. (Objective 1)

This Exercise will be evaluated for Performance Indicators, in accordance with NEI 99-02 Rev. 1, "Regulatory Assessment Performance Indicator Guidelines." (Objectives 8, 10 and 20)

Objectives are grouped according to functional area of emergency response. Additionally, objectives have been cross referenced to major or parent Emergency Plan Implementing Procedures (EPIP) used in demonstrating the objective.

General Objectives:

1. Demonstrate the adequacy of the STPEGS Emergency Plan, and the Emergency Plan Implementing Procedures.

¹NUREG-0654 ref: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P

²Major EPIP ref: ALL

2. Demonstrate the ability to activate, staff and operate the Technical Support Center (TSC), Operations Support Center (OSC), Emergency Operations

Facility (EOF), and Joint Information Center (JIC) within the time frames specified in the Emergency Plan.

¹NUREG-0654 ref: B.5, 7; G.3; H.1-3, 6-9,12; J.1, 4, J.6.a-c, 10.a-b, E.2; F.1,2,3

- ²Major EPIP ref: OERP01-ZV-IN03, -TS01, -OS01, -EF01, -OF02
3. Demonstrate the reliability and effective use of normal and emergency communications equipment and procedures.

¹NUREG-0654 ref: F.1-3

²Major EPIP ref: OERP01-ZV-IN02

4. Demonstrate the ability to provide a Exercise scenario and controller organization that permits testing a major portion of the emergency plan.

¹NUREG-0654 ref: N.5

²Major EPIP ref: OPGP05-ZV-0001

5. Demonstrate the ability to conduct a post- Exercise critique to identify weak or deficient areas that need correction.

¹NUREG-0654 ref: N.4, 5

²Major EPIP ref: OPGP05-ZV-0001

6. Demonstrate error reduction methods (e.g. three-point communication, peer checking) when performing risk significant evolutions such as accident assessment, emergency classification, offsite notification, and protective action recommendations.

³CR 03-13873 (no pars at GE) has as action 7: define and incorporate "three-point communication" as an ero exercise objective for 2004.

Accident Assessment, Classification and Mitigation

7. Demonstrate the ability to assess plant conditions.

¹NUREG-0654 ref: D.1-2; H.5; I.1

²Major EPIP ref: OERP01-ZV-SHO1, -TS07

8. Demonstrate the ability to classify emergency events per the Classification Procedure OERP01-ZV-IN01. (Performance Indicator)

¹NUREG-0654 ref: D.1-2; H.5; I.1

²Major EPIP ref: OERP01-ZV-IN01

Notification and Mobilization

9. Demonstrate the ability to alert and notify STPEGS emergency response personnel in a timely manner.

¹NUREG-0654 ref: A.1.e; B.1, 5,7.a; E.2; F.1.e

²Major EPIP ref: OERP01-ZV-IN03

10. Demonstrate the ability to accurately complete the Offsite Notification Form and notify state, county and federal agencies within the time frames specified in the Emergency Plan (Performance Indicator).

¹NUREG-0654 ref: A.1.e; E.1-4; F.1; J.7; N.2.a

²Major EPIP ref: OERP01-ZV-IN02

11. Demonstrate the ability to alert, advise, evacuate, account for, and direct onsite personnel.

¹NUREG-0654 ref: J.1-5

²Major EPIP ref: OERP01-ZV-IN04, IN05, SH03, TS08

Direction and Control

12. Demonstrate the ability to direct and coordinate emergency responses.

¹NUREG-0654 ref: A.1.d; B.2-7

²Major EPIP ref: OERP01-ZV-SHO1, -TS01, -EF01

13. Demonstrate the ability to transfer emergency direction from the Control Room (CR), to the TSC, and finally to the EOF, or from the Control Room directly to the EOF.

¹NUREG-0654 ref: A.1.d; B.3-5

²Major EPIP ref: OERP01-ZV-SHO1, -TS01, -EF01

14. Demonstrate the ability to control access to the Owner Controlled Area, the Protected Area and the Emergency Response Facilities.

¹NUREG-0654 ref: J.1, 4

²Major EPIP ref: OERP01-ZV-TS08, SH03

Radiological Assessment and Control

15. Demonstrate the ability to provide radiological monitoring and decontamination capabilities for essential and non-essential personnel.

- ¹NUREG-0654 ref: J.3-4; K.7
²Major EPIP ref: OERP01-ZV-IN06
16. Demonstrate the ability to provide onsite contamination and emergency worker exposure controls.
- ¹NUREG-0654 ref: K.1-6
²Major EPIP ref: OERP01-ZV-IN06
17. Demonstrate the ability to monitor, assess, and correlate onsite radiological conditions.
- ¹NUREG-0654 ref: H.5.b, c, 9; I.1-3; N.2.d, e.1
²Major EPIP ref: OERP01-ZV-SH02, -TS04, -TS05, and -OS03
18. Demonstrate the ability to collect, analyze and evaluate simulated radiological samples and surveys.
- ¹NUREG-0654 ref: H.5.b, 7; N.2.d, e.1
²Major EPIP ref: OERP01-ZV-SH01, TS01, TS04, TS05, OS03, OS06
19. Demonstrate the ability to assess core damage.
- ¹NUREG-0654 ref: I.3; M.1
²Major EPIP ref: OERP01-ZV-TS07
20. Demonstrate the ability to determine source terms and dose projections, evaluate dose projections against protective action guides and determine appropriate protective actions and communicate these Protective Actions to offsite agencies within the timeframes specified in the Emergency Plan (Performance Indicator).
- ¹NUREG-0654 ref: I.3-11; J.7, 10.m
²Major EPIP ref: OERP01-ZV-IN07, IN02
21. Demonstrate the ability to adequately form, brief, dispatch, and debrief Emergency Teams.
- ¹NUREG-0654 ref: H.5.b, 7; N.2.d, e.1
²Major EPIP ref: OERP01-ZV-OS01, -OS03, -OS06

Public Information

22. Demonstrate the capability at the Joint Information Center to provide accurate and timely information to the media via press releases and press conferences; and to answer questions from the media and/or public concerning an emergency at STPEGS.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

23. Demonstrate the capability at the Joint Information Center to identify rumors and correct false information about an event at STPEGS.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

24. Demonstrate the capability at the Joint Information Center to coordinate the assembly, preparation, and release of information with state and local government agencies in a timely manner.

¹NUREG-0654 ref: B.7.d; G.4.a, b; G.4.c

²Major EPIP ref: OERP01-ZV-EF25, -OF02

FOOTNOTES

¹ References related emergency planning objectives provided as guidance in NUREG-0654/FEMA-REP-1 Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" as based on NRC requirements provided in 10 CFR 50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities".

² References major STPEGS Emergency Plan Implementing Procedure(s) used in demonstrating the objective. Other procedures may be applicable but will generally be referenced by, or branched from, the major procedure.

³ CR 03-13873 (No PARs at GE) has as action 7: Define and incorporate "three-point communication".

3.0 GUIDELINES

To define the scope and extent of participation by organizations and "participants", the following guidance is established to meet the objectives listed in Section 2.0 of the Exercise Manual.

A. GENERAL INFORMATION

1. The Exercise will be conducted on August 10, 2004. Exercise participants will not possess prior knowledge of the Exercise sequence of events, and will follow normal daily activities the day of the Exercise until notified of abnormal conditions as directed by OERP01-ZV-IN03, "Emergency Response Organization Notification".
2. The Control Room staff will operate from the STPEGS Simulator located in the Nuclear Training Facility. Prior to the start of the Exercise a shift briefing will be conducted, for the operating crew, covering initial conditions and conduct of the Exercise. Plant Operators, participating in the Exercise, will be dispatched to the plant with controllers to take the place of on-shift plant operators for Exercise purposes only. Communication systems in the Simulator will be cross-connected with the balance of the plant.
3. The Exercise will commence with a postulated condition necessitating the declaration of an emergency classification and escalate to require further emergency classification declarations.
4. Exercise participants will perform, as required, radiological monitoring and dose assessment activities as identified in the Section 2.0 Objectives. Radiological field monitoring teams will be dispatched in order to evaluate response time, communications and monitoring procedures.
5. As Exercise conditions warrant the following onsite participants and facilities will be staffed and activated, the Onshift Emergency Organization (Normal shift personnel), Technical Support Center, Operations Support Center, Emergency Operations Facility (White Team Emergency Response personnel).
6. The Joint Information Center will be staffed and activated. Offsite participants from STPEGS will be pre-staged at the Joint Information Center to allow for the maximum amount of play. Participation by members of the news media will be simulated. News bulletins will be made which depict simulated Exercise events. However, no Exercise press bulletins will be made to the public.
7. Operational and Radiological data are generated by the simulator which is cross connected to the Technical Support Center, Operations Support Center (41' RCA access control), and the Emergency Operations Facility to simulate ICS and RM-11 systems currently installed in those areas.

8. Severe Accident Management Guidelines (SAMG) will not be entered.

B. PLANT / PERSONNEL SAFETY

1. Personnel will NOT manipulate any plant equipment (valves, breakers, controls) in response to the Exercise, except for equipment mock-ups or components specifically agreed upon by management before hand (for example, PASS samples).
2. Personnel will NOT take any actions that jeopardize personnel safety. Take immediate action to restore safe operation if an unsafe condition exists.
3. Personnel will NOT enter any areas which are contaminated, potentially contaminated, airborne or high radiation areas. ALARA practices will be maintained during the Exercise.
4. Actions that would jeopardize the operation of the units, will not be taken.
5. Actions that would violate permit requirements such as Breach / Impairment of Fire Barriers (block open Fire or Security Doors), Breach of Control Room HVAC Envelope, or violation of Radiation Work Permits etc., will not be taken.
6. In the event an actual emergency occurs during the conduct of the Exercise, personnel are to notify the Control Room using ext. 911. Then, as soon as possible, notify the lead controller in your facility or the Exercise Coordinator.
 - a. In the event of an actual fire report, the operating shift will provide the initial response.
 - b. In the case of an actual medical emergency, the operating shift will provide the initial response until relieved.
 - c. Qualified Exercise participants and controllers can be directed to support the Shift Supervisor in response to the actual emergency.
 - d. The Exercise Coordinator will control time out activities in the facilities due to the real emergency, and determine if suspension or termination of the Exercise is required.
7. If the decision is made to suspend the Exercise, any and all communications links will be used to notify the appropriate personnel of the real emergency.
8. The Lead Controller in each facility will be advised if any unsafe condition exists.
9. Exercise personnel will observe all radiological controls. All personnel who enter the RCA must have the appropriate radiation worker qualifications.
10. Controllers will specify any actions that are to be simulated.

C. COMMUNICATIONS / NOTIFICATIONS

1. All radio and telephone communications will be preceded and followed by the phrase " THIS IS A DRILL ".
2. All required notifications will be made to:
 - a. The NRC using the "Exercise Emergency Communications Directory." In the simulator, Emergency Response Data System (ERDS) activation will be simulated.
 - b. The State and County will be notified via the "Exercise Emergency Communications Directory." The notification form will be faxed to all locations using the broadcast mode, including the onsite Phone Cell. Any Exercise documentation transmitted via facsimile machine will have the word "Drill" stamped on them prior to transmittal.
3. Use of plant Alarms (Fire Alarm, Assembly and Accountability) will be preceded by announcing "THIS IS A DRILL" over the plant PA.
4. Calls to outside vendors will be made for initial contact. No services will be requested. Participants will clarify that the notification is for "Drill Only" and no work or service is being requested. If the vendor is willing to provide information, the necessary information will be obtained such as response capability, response time, delivery time and cost.
5. Other calls for offsite assistance will be made as specified in the "Exercise Emergency Communications Directory."

D. PLANT ACTIVITIES

1. All actions will be performed as realistically as possible. Emergency teams will be dispatched in accordance with procedures and a controller will be with the teams. Actions required by Plant Operating Procedures and Emergency Plan Implementing Procedures will be carried out to the extent possible, unless otherwise directed by the Exercise controllers.
2. Assume all systems function as designed unless told otherwise by control messages or a controller.
3. Only information provided in the scenario will be used.
 - a. Controllers will provide data in the location the information would normally be available (e.g. RM-11 data available at MEAB 41' RCA Access Control Point).
 - b. If a failure of the Simulator occurs, and the Simulator can not be recovered in a reasonable period of time, backup data sheets will be available and posted in appropriate locations. Selected parameters and readings will be provided. The selected information will be

sufficient to make the necessary decisions or actions required by Exercise participants.

- c. There will be a Exercise controller at each defined location. Controllers will provide information and clarification of data to keep the Exercise progressing in accordance with the scenario. Since all possible participant reactions to the simulated Exercise events can not be anticipated, individual Controllers may initiate simulated situations to preserve the continuity of the overall scenario timeline without prior approval of the Lead Controller. However, individuals are prohibited from creating real or simulated situations which are not provided for in the scenario package and may affect the timeline without prior approval of the Lead Controller.
4. Exercise participants will respond to all scenario events as if they were real unless directed otherwise by a controller.
5. Exercise Tag outs will not be hung in the operating plant. Tag outs will be posted in the simulator.
6. Equipment and tools normally used to do a job will be obtained and brought to the work location unless it poses a safety hazard to the plant or participants.
7. All required repair parts should be located and obtained in the warehouse, unless directed otherwise by a Drill controller.
8. Mockups of equipment and/or areas may be established to simulate actual equipment and/or inaccessible areas. Participant actions in these simulated areas will be performed as if these conditions actually existed.
9. If samples are deemed necessary they will actually be collected and their analysis conducted unless otherwise directed by a controller.
10. Controllers will specify during the course of the Exercise any actions that are to be simulated. For example, if the decision to issue Potassium Iodide (KI) is made onsite, all preparations will be conducted, however personnel will not ingest KI.
11. Portable fire extinguishers or other sealed canisters will not have the seals broken or safety pins removed in response to the postulated scenario events, except when specifically required by instructions provided in the scenario package.
12. The use of protective clothing may be simulated by the Exercise participants in the plant.
13. The Offsite Field Monitoring teams, so as not to unnecessarily alarm members of the general public, will simulate the use of protective clothing.

14. SCBA's will be donned, as required by the scenario conditions, however, after initial fitting on the face, the SCBAs may be removed for safety considerations.
15. The use of silver zeolite cartridges when taking air samples will be simulated. Charcoal cartridges will be provided by the Exercise controllers for use in the air samplers.

E. ASSEMBLY AND ACCOUNTABILITY

1. If assembly and accountability is ordered, it will be conducted in accordance with OERP01-ZV-IN04 and site non-essential personnel will be assembled in designated assembly areas. Once accountability procedures have been completed, a page announcement will allow the assembled personnel to return to their normal workstations.
2. Site evacuation will be simulated.

F. DOCUMENTATION

1. Emergency Plan action logs and procedure checklists will be used by participants to record events during the Exercise. These should be collected by the appropriate administrative personnel at the end of the Exercise and turned over to the Facility Lead Controller.

Scenario Sections

- 4.1 Narrative Summary
- 4.2 Initial Conditions
- 4.3 Initial Met Conditions
- 4.4 Timeline
- 4.5 Onsite Messages
- 4.6 Supplemental Scenarios
- 4.7 Offsite Messages
- 4.8 Radiological Information
 - 4.8.1 Chemistry Data
 - 4.8.2 Offsite Plume Isotopic
 - 4.8.3 In-plant Survey Data
 - 4.8.4 Met Data
 - 4.8.5 Onsite Plume Data
 - 4.8.6 Offsite Plume Data
 - 4.8.6.1 State Offsite Plume Data
 - 4.8.6.2 State Isotopic Data

NARRATIVE SUMMARY

Unit 1 at 100 % power for the last 210 days. Unit 2 at 100 % power for 90 days. Winds out of Southwest at 221°. Wind speed is 7 mph and ambient temperature is 74 degrees. Supplementary Purge is in progress for pressure control. B Train Outage for ECW Pump 1B (#12 SDG and Essential Chiller 12B are tagged out due to lack of ECW), LHSI Pump 1B is OOS for motor oil replacement, HHSI Pump 1B is OOS for breaker cell switch changeout, and CS Pump 1B is OOS for CS-MOV-0001B actuator refurbishment.

The main turbine trips, which results in an automatic scram signal. The Reactor fails to automatically trip, and the Primary Reactor Operator must manually initiate a Reactor Scram. This should result in a declaration of an ***ALERT based upon - SA2 Failure of Reactor Protection System Instrumentation to complete or initiate an automatic reactor trip once a reactor protection system set point has been exceeded and manual reactor trip was successful from the control room.***

Standby Transformer #1 is lost on a differential lockout. Standby busses 1G and 1H lose electrical power and ESF DG 13 will start and load on a Mode II logic from the sequencer. ESF DG 12 fails to start due to being in Pull-to-stop for ECW 1B maintenance.

A RCS leak (~ 100 gpm) starts.

A Large break LOCA occurs and SI automatically actuates. This should result in a declaration of a ***Site Area Emergency based upon - FS1 Fuel Clad Potential Loss (Reactor Vessel Water Level Plenum level less than 20%) and RCS Loss (RCS Leak rate greater than CVCS System's ability to maintain RCS inventory as indicated by loss of RCS subcooling.*** LHSI 1A pump does not start and LHSI 1B & HHSI 1B pumps are tagged out for maintenance. HHSI 1C & LHSI 1C pumps start, but flow out the break in RCS loop C. HHSI 1A pump is the only pump that is pumping RWST water into the core. Containment pressure is elevated quickly and stables out approx. 20-30 psig. Supplementary Purge Exhaust ICIV, HC-MOV-0005, fails to close.

Shortly after the LOCA, a bus lockout occurs on SWGR E1A and HHSI 1A pump is lost resulting in no flow to the core. Core exit thermocouple temperatures start to rise and exceed 1200F. This should result in a declaration of a ***General Emergency based upon- FGI Fuel Clad Loss (Core Exit Thermocouple greater than 1,200°F) and RCS Loss (RCS Leak rate greater than CVCS System's ability to maintain RCS inventory as indicated by loss of RCS subcooling) and Containment Potential Loss (CSF Core Cooling - Orange > 15 min.).***

B train SI equipment is restored, flow is established to the core and CET temperatures lower.

Supplemental Purge Exhaust valve OCIV, HC-FV-9777, fails open and commences a radioactive release through the unit vent.

Three hours later, Supplementary Purge Exhaust valve OCIV, HC-FV-9777, is repaired and closed, terminating the release.

Offsite field teams track the plume offsite and Protective Action recommendations are updated due to an increase in release rate through the unit vent.

4.2 Initial Conditions

Unit 1 at 100 % power for the last 210 days. Thermal power is 3853 MWt. Unit 2 at 100 % power for 90 days. Winds out of Southwest at 221⁰. Wind speed is 7 mph and ambient temperature is 74 degrees. Supplementary Purge is in progress in anticipation of upcoming containment entry for ECCS sump inspection. B Train Outage for ECW Pump 1B (#12 SDG and Essential Chiller 12B are tagged out due to lack of ECW), LHSI Pump 1B is OOS for motor oil replacement, HHSI Pump 1B is OOS for breaker cell switch change-out, and CS Pump 1B is OOS for CS-MOV-0001B actuator refurbishment. The following equipment is out of service in Unit 1:

1. "B" train outage in progress for ECW Pump 1B oil replacement and testing.
2. "B" CCP removed from service for CS-MOV-0001B actuator refurbishment.
3. "B" HHSI pump removed from service for breaker cell switch change-out
4. "B" LHSI SI removed from service for motor oil replacement.

Planned activities- support scheduled maintenance and surveillance activities in Unit 1

Unit 2 is at 100% power.

Planning Forecast for South Texas Project - Wadsworth, TX
Issued: 3:19 AM Tuesday, August 10, 2004

Discussion:

Expect another very warm and humid day today with a chance of an afternoon shower or thunderstorm as low pressure remains well south of the area and high pressure continues over the central and southern U.S. Rain chances will continue towards the end of the week as a deeper layer of tropical moisture moves northward into the area and a cold front stalls over the central part of the state. Drier and warmer weather will return by next weekend as a ridge of high pressure aloft builds back over the region.

Tuesday August 10 (sunrise 5:50 am/sunset 7:08 pm)

Continued partly cloudy, very warm and humid with a chance of an afternoon shower or thunderstorm.

Wind Southwest 8-10 changing to Southerly 6-10 this afternoon
Precip 10-20% 2pm to 7pm. Precipitation amounts isolated totals to 1.00 inch.
Temp Low: 76°F High: 92°F

Wednesday August 11 (sunrise 5:51 am/sunset 7:07 pm)

Variable cloudiness, warm and humid with a continued chance of mainly afternoon and evening thunderstorms.

Wind South 8-12
Precip 20-30% 1pm to 8pm. Precipitation none to 1.00 inch. Isolated totals to 2.00 inches.
Temp Low: 73°F High: 90°F

Thursday August 12 (sunrise 5:51 am/sunset 7:06 pm)

Partly to mostly cloudy with a chance of showers and thunderstorms, mainly during the afternoon and evening.

Wind Southwest 10-12 gust 15
Precip 30% chance of rain.
Temp Low: 74°F High: 94°F

Friday August 13 (sunrise 5:52 am/sunset 7:05 pm)

Variable cloudiness with scattered showers and thunderstorms.

Wind West 10-12 gust 15
Precip 30% chance of rain
Temp Low 80°F High: 93°F

Meteorologist: S. Murry

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4.3 INITIAL METEOROLOGICAL CONDITIONS

ZCZC SATZFPHGX
TTAA00 KHOU 250854

SOUTHEAST TEXAS ZONE FORECASTS
NATIONAL WEATHER SERVICE HOUSTON/GALVESTON TX.
0600 AM CDT WED August 10, 2004

TXZ214-235>238-252100
BRAZORIA - CHAMBERS - GALVESTON - JACKSON - MATAGORDA
INCLUDING THE CITIES OF...ANGLETON...PEARLAND...BAY CITY...
EDNA...TEXAS CITY...GALVESTON
0600 AM CDT WED August 10, 2004

TODAY...PARTLY CLOUDY AND HOT HIGHS IN THE MID 90S COAST TO
THE UPPER 90S INLAND. SOUTHWEST WINDS 6 TO 10 MPH. BECOMING
MORE SOUTHERLY LATER THIS AFTERNOON.

TONIGHT...PARTLY CLOUDY WITH A 20 PERCENT CHANCE OF SHOWERS.
LOWS NEAR 75 COAST TO THE MID 80S INLAND. NORTH WINDS NEAR
10 MPH.

Wednesday...MOSTLY CLOUDY AND WARM WITH A 30 PERCENT CHANCE
OF SHOWERS OR THUNDERSTORMS. HIGHS IN THE LOWER 80S COAST
TO LOWER 80S INLAND. SOUTH WINDS 10 TO 15 MPH.

EXTENDED FORECAST...

Thursday...CONTINUED CLOUDY WITH A CHANCE OF RAIN. HIGHS IN
THE MID 90s SLIGHTLY COOLER ON THE COAST. EAST WIND GUSTING
TO 15 MPH

FRIDAY...DECREASING CLOUDS. LOWS IN THE 70s HIGHS IN THE
90s.

NNNN

4.3 METEOROLOGICAL CONDITIONS

ZCZC SATZFPHGX
TTAA00 KHOU 250854

SOUTHEAST TEXAS ZONE FORECASTS
NATIONAL WEATHER SERVICE HOUSTON/GALVESTON TX.
0900 AM CDT WED August 10, 2004

TXZ214-235)238-022200-
BRAZORIA - CHAMBERS - GALVESTON - JACKSON - MATAGORDA
INCLUDING THE CITIES OF..ANGLETON...PEARLAND...BAY CITY...
EDNA...TEXAS CITY...GALVESTON
0900 AM CDT WED August 10, 2004

TODAY...PARTLY CLOUDY AND HOT HIGHS IN THE LOW 90S COAST TO
THE MID 90S INLAND. SOUTHWEST WINDS 6 TO 10 MPH BECOMING
MORE SOUTHERLY LATER THIS AFTERNOON.

TONIGHT...PARTLY CLOUDY WITH A 20 PERCENT CHANCE OF SHOWERS.
LOWS NEAR 75 COAST TO THE MID 80S INLAND. WEST WINDS NEAR 10
MPH.

WEDNESDAY...MOSTLY CLOUDY AND WARM WITH A 30 PERCENT CHANCE
OF SHOWERS OR THUNDERSTORMS. HIGHS IN THE LOWER 90S COAST
TO MID 90S INLAND. SOUTH WINDS 10 TO 15 MPH.

EXTENDED FORECAST...

Thursday...CONTINUED CLOUDY WITH A CHANCE OF RAIN. HIGHS IN
THE MID 90s SLIGHTLY COOLER ON THE COAST. EAST WIND GUSTING
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FRIDAY...DECREASING CLOUDS. LOWS IN THE 70s HIGHS IN THE
90s.

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4.4 Timeline

| <u>TIME</u> | <u>SEQUENCE OF EVENTS</u> | <u>MESSAGE</u> |
|-------------|--|----------------|
| 07:00 | <p>Initial Conditions, Supplementary purge in progress to cleanup containment atmosphere in anticipation of entry later today for ECCS Sump inspection. "B" Train outage in progress (ECW, LHSI Pump, HHSI Pump, Containment Spray Pump).</p> <p>Winds are out of the Southeast at (221°) wind speed is 9 mph and ambient temperature is 75°F.</p> <p>Supplemental Scenario No. 1, 2, 3, and 4</p> | 1 |
| 07:05 | <p>Turbine trip. Failure to auto Reactor trip. Manual Reactor trip successful.</p> | |
| 07:20 | <p><u>ALERT - SA2</u> Failure of Reactor Protection System Instrumentation to complete or initiate an automatic reactor trip once a reactor protection system set point has been exceeded and manual reactor trip was successful from the control room. (Performance Indicator)</p> <p>Performance Indicator Initiator Time: _____ Classification Time: _____ Classification EAL: _____</p> <p>Supplemental Scenario No. 5</p> | 2C |
| 07:25 | <p>Activation of the Emergency Notification and Response System by Security commences.</p> | 3 |

TIME

SEQUENCE OF EVENTS

MESSAGE

07:35 State and County authorities are notified of the Alert declaration.
(Performance Indicator)

Performance Indicator

Alert Declaration Time: _____

Notification Time: _____

07:40 Loss of Standby Transformer No. 1.

Supplemental Scenario No. 6

~08:20 RCS leak begins (~100 gpm ramped over 15 min).

08:35 Large break LOCA. Safety Injection starts, Containment Isolates, "C"
HHSI & LHSI Pumps start, "A" HHSI Pump starts and "A" LHSI
Pump trips during start.

Supplemental Scenario No. 7

~08:43 4160V Bus E1A lockout.

Supplemental Scenario No. 8

~08:50 Site Area Emergency - FS1 Fuel Clad Potential Loss (Reactor Vessel
Water Level Plenum level less then 20%) and RCS Loss (RCS Leak
rate greater than CVCS System's ability to maintain RCS inventory as
indicated by loss of RCS subcooling). (Performance Indicator)

4C

Performance Indicator

Initiator Time: _____

Classification Time: _____

Classification EAL: _____

~08:55 Assembly and accountability declared onsite.

| <u>TIME</u> | <u>SEQUENCE OF EVENTS</u> | <u>MESSAGE</u> |
|-------------|---|----------------|
| 09:05 | The State and County authorities are notified of the Site Area Emergency Declaration. (Performance Indicator) Performance Indicator: Site Area Emergency Declaration Time: _____ Notification Time: _____ | |
| 09:25 | Assembly and Accountability is completed. | 5 |
| ~09:30 | RWST swap over to Containment Emergency Sumps. | |
| ~09:35 | Core exit thermocouples exceed 1,200 degrees F. | 6 |
| ~09:50 | "B" LHSI Pump restored. Supplemental Scenario No. 2 | |
| ~09:50 | General Emergency – FG1 Fuel Clad Loss (Core Exit Thermocouple greater than 1,200°F) and RCS Loss (RCS Leak rate greater than CVCS System's ability to maintain RCS inventory as indicated by loss of RCS subcooling) and Containment Potential Loss (CSF Core Cooling - Orange > 15 min.). (Performance Indicator) Performance Indicator Initiator Time: _____ Classification Time: _____ Classification EAL: _____ | 7C |

TIME

SEQUENCE OF EVENTS

MESSAGE

~09:50 Protective Action Recommendation based on plant conditions, five-mile radius. Evacuate zones 1, 2, 3, 4, 5, Affected Downwind Sectors Q, R, A, B. (Performance Indicator)

Performance Indicator

Initiator Time: _____

PAR: _____

Notification Time: _____

~10:05 The State and County authorities are notified of the General Emergency Declaration and associated PARs. (Performance Indicator)

Performance Indicator

General Emergency Declaration Time: _____

Notification Time: _____

~10:09 Core Exit Thermocouple temperatures begin to decrease.

10:30 Valve FV-9777 Opens, radioactive release begins, Containment atmosphere discharges through the Unit Vent to the environment.

Supplemental Scenario No. 9

10:45 Unit Vent radiation monitor increases to over $4.5E^{+8}$ $\mu\text{Ci}/\text{Sec}$.

11:00 Protective Action Recommendation modified due to dose assessment to five-mile radius and 10 miles downwind. Evacuate zones 1, 2, 3, 4, 5, 6, 10, 11, Affected Downwind Sectors Q, R, A, B. (Performance Indicator)

Performance Indicator

Initiator Time: _____

PAR: _____

Notification Time: _____

TIME

SEQUENCE OF EVENTS

MESSAGE

11:15 The State and County authorities are notified of the modified PAR.
(Performance Indicator)

Performance Indicator

PAR Initiator Time: _____

Notification Time: _____

13:30 Release terminated when supplemental purge valve is secured, FV-9777 is closed.

13:35 Drill is terminated.

8

4.5 SITE MESSAGES

MESSAGE NO: 1

Page 1 of 1

THIS IS A DRILL

TO: All Facilities

FROM: Lead Controller

LOCATION: All Facilities

TIME: At start of Drill T=00:00, 0700 CDT

MESSAGE: Initial Conditions

Unit 1 at 100 % power for the last 210 days and is in the middle of life for the current core load. Thermal power is 3853 MWt. Supplementary purge in progress for pressure control. 'B' Train outage in progress (ECW pump 1B, "B" LHSI pump, "B" HHSI, "B" Containment Spray).

The following equipment is out of service in Unit 1:

1. "B" train outage in progress for ECW pump 1B oil change and testing.
2. "B" LHSI – Oil replacement
3. "B" HHSI – cell switch replacement.
4. "B" Containment Spray –CS-MOV-0001B actuator refurbishment.

Planned activities- support scheduled maintenance and surveillance activities in Unit 1

Unit 2 is at 100% power for 90 days.

THIS IS A DRILL

4.5 SITE MESSAGES

MESSAGE NO: 2C

Page 1 of 1

THIS IS A DRILL

TO: Shift Supervisor / Emergency Director
FROM: Simulator Lead Controller
LOCATION: Control Room Simulator
TIME: 07:20

You have met the conditions to declare an ***ALERT based upon - SA2 Failure of Reactor Protection System Instrumentation to complete or initiate an automatic reactor trip once a reactor protection system set point has been exceeded and manual reactor trip was successful from the control room.***

Controller Note: Contact the Drill Coordinator prior to issuing this contingency message.

THIS IS A DRILL

4.5 SITE MESSAGES

MESSAGE NO: 3

Page 1 of 1

THIS IS A DRILL

TO: Alarm Station Operator
FROM: Security Controller
LOCATION: Alarm Station
TIME: When activating ENRS for the ALERT
MESSAGE: This is a Drill

An ALERT has been declared. Activate the ENRS with scenario number 302 (Drill Alert White Team)

Controller Note: Use this message only if the Alarm Station Operator does not actuate ENRS or chooses the wrong scenario number.

THIS IS A DRILL

4.5 SITE MESSAGES

MESSAGE NO: 4C

Page 1 of 1

THIS IS A DRILL

TO: Emergency Director
FROM: Facility Lead Controller
LOCATION: Technical Support Center / Emergency Operations Facility
TIME: 08:50

If you have not already done so , Declare a Site Area Emergency based upon FS1, Fuel Clad Potential Loss(Reactor Vessel Water Level Plenum level less than 20%) and RCS Loss (RCSLeak rate greater than CVCS System's ability to maintain RCS inventory as indicated by loss of RCS subcooling).

Controller Note: Contact the Drill Coordinator prior to issuing this contingency message.

THIS IS A DRILL

4.5 SITE MESSAGES

MESSAGE NO: 5

Page 1 of 1

THIS IS A DRILL

TO: TSC Manager
FROM: TSC Controller
LOCATION: Technical Support Center
TIME: After Assembly and Accountability is complete.
MESSAGE: "THIS IS A DRILL "

Controller Note: Direct the Security Manager to read the following message over the plant PA system:

"Attention, Attention, all assembled plant personnel that have been identified as non-players are now released to return to your normal work location. Non players please disregard any further Drill announcements which may be heard over the plant PA system."

THIS IS A DRILL

4.5 SITE MESSAGES

THIS IS A DRILL

TO: Emergency Director
FROM: Lead Controller
LOCATION: Emergency Operations Facility
TIME: Any time before 09:35
MESSAGE: "THIS IS A DRILL "

For purposes of scenario continuity please wait to declare a General Emergency when all conditions have been met.

THIS IS A DRILL

4.5 SITE MESSAGES

MESSAGE NO: 7C

Page 1 of 1

THIS IS A DRILL

TO: Emergency Director
FROM: Lead Controller
LOCATION: Emergency Operations Facility
TIME: When CET's reach 1200 degrees F.
MESSAGE: "THIS IS A DRILL "

If you have not already done so, declare a General Emergency, based upon FG1, Fuel Clad Loss (Core Exit Thermocouple greater than 1,200°F) and RCS Loss (RCS Leak rate greater than CVCS System's ability to maintain RCS inventory as indicated by loss of RCS sub-cooling) and Containment Potential Loss (CSF Core Cooling – Orange > 15 min.)

THIS IS A DRILL

4.5 SITE MESSAGES

MESSAGE NO: 8

Page 1 of 1

THIS IS A DRILL

TO: All Facilities
FROM: Lead Controller
LOCATION: TSC /EOF
TIME: When directed by Drill Coordinator
MESSAGE: "THIS IS A DRILL "

The Drill is now terminated. Please organize the documentation generated by this drill and fill out an Emergency Response Suggestion form if appropriate. There will be a brief critique in each facility."

Supplemental Scenario Index

| | |
|-------------------------|--|
| Supplemental Scenario 1 | ECW Pump 1B |
| Supplemental Scenario 2 | LHSI Pump 1B |
| Supplemental Scenario 3 | HHSI Pump 1B |
| Supplemental Scenario 4 | Containment Spray Pump 1B |
| Supplemental Scenario 5 | Failure of MOV-005 Inboard Supplemental Purge Valve |
| Supplemental Scenario 6 | Loss of Standby Transformer #1 |
| Supplemental Scenario 7 | "A" LHSI Pump Trip on auto-start |
| Supplemental Scenario 8 | Loss of 4160 VAC ESF Bus 1A |
| Supplemental Scenario 9 | Failure of Outboard Supplemental Purge Valve FV-9777 |

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 1

ECW Pump 1B

Approximate Time: 0700

Location: ECW Structure

Description:

ECW pump 1B is tagged out for oil replacement and has been de-termed for testing. Estimated time of return to service is dayshift on 06/23/04.

#12 SDG and Essential Chiller 12B are tagged out due to lack of ECW.

Player Information:

There is a "B" train outage in progress. ECW pump 1B is tagged out for oil replacement and has been de-termed for testing. #12 SDG and Essential Chiller 12B are tagged out due to lack of ECW.

Controller Information:

The ECW pump 1B will not be returned to service during this exercise. Time to re-term the motor, test, and remove the ECO will take about 3-4 hours. It is not essential that this pump be returned to service during this exercise.

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 2

LHSI pump 1B

Approximate Time: 0700

Location: -21' FHB

Description:

The LHSI pump 1B is tagged OOS for motor oil replacement. The ERO crew has just finished the oil replacement and is turning it over to day shift to finish (finish paper work and remove ECO). Estimated time of return to service is dayshift on 08/11/04.

Player Information:

The LHSI pump 1B is danger tagged OOS for motor oil replacement per PM# 123456, WAN# 654321. The ERO crew has just finished the oil replacement and is turning it over to day shift to remove grounds and release the ECO.

T-07:00 – Turnover complete. Dayshift crew to walk-down to verify ready to start.

T-08:00 – ECO has been signed off, waiting for Ops to release ECO.

Controller Information:

Ops will not be able to get the breaker racked in due to the racking screw threads being burred and will not start. At 09:50 the breaker can be racked in and closed. **This is time critical to the success of the Exercise. The crew must not get it back until 09:50.**

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 3

HHSI Pump 1B

Approximate Time: 0700

Location: -21' FHB

Description:

The HHSI pump 1B is tagged OOS to change-out the breaker cell switch. This job was started last night and the old breaker cell switch has been removed. Estimated time of return to service is dayshift on 06/23/04.

Player Information:

The HHSI pump 1B is tagged OOS to change-out the breaker cell switch. This job was started last night and the old breaker cell switch has been removed.

Controller Information:

The HHSI pump will not be returned to service during the exercise. Installing new cell switch, testing, and releasing the ECO will take until 06/23/04.

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 4

Containment Spray Pump 1B

Approximate Time: 0700

Location: -21' FHB

Description:

The Containment Spray pump 1B is tagged OOS for CS-MOV-0001B actuator refurbishment. The actuator has been removed on night shift and is in the shop. Day shift will have to complete the job. Estimated time of return to service is dayshift on 06/23/04.

Player Information:

The Containment Spray pump 1B is work in progress. This job was started last night and the old actuator has been removed. Turnover is complete and dayshift will continue with the job.

Controller Information:

The Containment Spray pump 1B will not be returned to service during the exercise. Installing new actuator, testing, and releasing the ECO will take until 06/23/04.

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 5

Failure of MOV-005 Inboard Supplemental Purge Valve

Approximate Time: 07:20 (T=0:20)

Location: RCB 68' elev.

Description:

The Supplemental Purge Inside Containment Isolation Valve, MOV-0005, loses position indication during close signal from hand-switch.

Player Information:

When dispatched to check the breaker for the Supplemental Purge Motor operated valve, you discover that the breaker indicates that it is tripped. Attempts to cycle the breaker locally result in the breaker failing to shut and the MOV does not operate. Voltage is not correct and motor windings must be checked and the motor replaced. However, after 08:20, personnel will not be able to enter containment to replace the MOV motor or manually close the valve. If checked, motor is bound and won't operate.

Controller Information:

This repair will not be able to be done by replacing the breaker. The problem is in the motor inside containment on the MOV. This repair is not critical to the success of the exercise.

References:

OPMP05-ZE-0311

MOV Troubleshooting Guide

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 6

Loss of Standby Transformer #1

Approximate Time: 0740 (T=0:40)

Location: NE of Turbine Building

Description:

At 0740 the Standby Transformer #1 is lost on a differential lockout due to a bad relay.

Player Information:

Trouble shooting will find that the trouble is due to a bad relay.

Controller Information: All actions are to be simulated. However, all necessary equipment or actions must be available or addressed.

Players need to trouble shoot and test relay.

Calibrate new relay.

The transformer will not be returned to service during the Exercise.

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 7

"A" LHSI Pump Fails to Start

Approximate Time: 08:30 (T=1:30)

Location: FHB -21'

Description:

When SI automatically actuates, LHSI 1A trips due to failure on the over-current 5051 relay.

Player Information:

Any troubleshooting will indicate that the relay is bad and will have to be replaced.

Controller Note:

This repair is not time critical to the success of the scenario. The LHSI pump 1A will not be returned to service during this exercise.

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 8

Loss of 4160 VAC ESF Bus E1A

Approximate Time: 08:43 (T=1:43)

Location: EAB 35 ft. Elev.

Description:

At 08:43 the E1B 4160-volt buss tripped due to a short in the HHSI pump 1A motor. The pump breaker received a trip signal from the over current relay. However, the breaker failed to open due to a stuck trip latch. The buss over current relay tripped the buss and upon investigation the 86B lock out relay failed to reset. Investigations will find HHSI pump 1A breaker closed with its associated over current relay flag indicating it operated. E1A buss over current relay indicates it operated.

Player Information:

Trouble shooting will find:

- HHSI pump 1A over current relay is flagged, red light on breaker cubicle illuminated,
- HHSI pump 1A breaker is still closed and will not be opened from the breaker cubicle,
- Bus E1A over current relay is flagged indicating it tripped the buss.

The 86B lock out relay will not reset when attempted to reset. This requires the 86B relay to be replaced with a new relay.

Controller Note: All actions are to be simulated. However, all necessary equipment or actions must be available or addressed.

Fault will remain on the bus.

References:

OPMP05-ZE-0201 Insulation Resistance and Over Potential Testing of Cables and Buses
Switchgear Maintenance 4160 Volt Bus Maintenance E1A
Single line Diagram 4.16KV Class 1E Switchgear E1A
Single line Diagram

4.6 Supplemental Scenarios

SUPPLEMENTAL SCENARIO NO. 9

Failure of Outboard Supplementary Purge Valve

Approximate Time: 10:30 (T=3:30)

Location: MAB 68' elev.

Description:

Air operated valve operator for FV 9777 suffers a failure of the bolts holding the spring cap on the valve operator. The spring pressure forces the top off the spring cap. This causes a loss of the spring which prevents the valve operator from staying in the closed position. RT-8012, RT-8013, and Unit Vent RT-8010 show increased activity.

Player Information:

FV 9777 Outboard Supplemental Purge Isolation Valve is in the open position. The top of the valve actuator is missing and the spring appears to have been forcefully ejected and is laying on the deck. Part of the spring has broken off and is missing. Not all parts of the actuator spring cap can be located. Further investigation reveals that the solenoid valve controlling instrument air to the valve actuator was also damaged by flying debris.

Controller Note:

With the valve operator now open, the dose rate around the valve increases to approximately 13.5 R/hr (see section 4.8.3. If this repair is to be done, dose extensions will be required for the team.) When the spring cap was forcefully ejected from the actuator by the spring it apparently impacted one of the solenoid valves that control instrument air flow to the actuator. The solenoid valve is damaged also and will need to be replaced. The fix is to replace the spring with a new spring and get a replacement spring cap and bolts to force the valve closed. **This repair is time critical to the success of the scenario. It must be returned to service and closed at 13:30.**

References:

4409-00277-BVT Valdisk Purge Isolation Control Valves Tech Manual

All Supplemental/Offsite Message Listing

| |
|----------------------------|
| White Team Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|-------------------------------------|----------------|--------------------|---------------|------------------|---------------|---|--------|
| <i>ClassificationStatus: Alert.</i> | | | | <i>Total: 14</i> | | | |
| 8:30 | 1 | Local | Resident | JIC | Info Request | A neighbor told me there was an accident at the plant and some workers may have been injured. I haven't heard any news reports. Is it safe for me to stay home? I am really worried. | 190 |
| 8:32 | 2 | Elected Officials | Mayor | JIC | Info Request | This is the Chief of Police of Sugarland. My secretary just got a call that something big is going on at the plant. What has happened? Do you need any assistance from us? The employees at the plant have been so helpful to us in understanding about any danger we may face from STP, and we would like to provide some assistance, if possible. | 183 |
| 8:34 | 3 | Local | Print | JIC | Media Inquiry | This is Teddy of the Brazoria Facts. We are getting reports that you can't get the reactor under control. There are also reports of injured workers. What's going on with the plant? Where is the best place for one of our reporters to go? | 193 |
| 8:36 | 4 | Local | Resident | JIC | Info Request | My neighbor called me and said there was an accident at the nuclear plant, is this true? What is wrong? When were you going to tell the public? | 189 |
| 8:38 | 5 | Elected Officials | State-Senator | JIC | Info Request | This is Donna Garcia at Senator Ambrister's office. Can you tell me precisely what has happened at the plant? How many people are affected by this incident? What is the generating capacity of the plant? How much did it cost to build? How long did it take? When will it be fully operational again? | 1216 |
| 8:40 | 6 | Local | Resident | JIC | Info Request | This is Marilyn Capri. I know there has been a big issue with storage of fuel from plants like yours. Where do you store the used fuel? How much space is left? What happens when you run out of space for the spent fuel? | 1082 |
| 8:42 | 7 | Elected Officials | CongressMan | JIC | Info request | This is James Blue with Senator Comyn's Austin office. We understand there has been an accident at the South Texas nuclear power plant. The Senator would like to know: a. What actions are being taken to protect communities near the plant? b. Which state agencies are responsible for responding to this emergency? c. What type of response is underway at this time? | 446 |
| 8:44 | 8 | Local | Resident | JIC | Info Request | My name is Alice Dimming. I live at Selkirk. My neighbor called me and said she had heard there is a big problem at STP. Is that true? She also said employees have been hurt and some are on the way to the hospital. How many and who? Some of them may be my neighbors. Our siren has not gone off. What is happening? Should we be getting ready to evacuate? | 1297 |

All Supplemental/Offsite Message Listing

| |
|----------------------------|
| White Team Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 8:46 | 9 | Local | TV | JIC | Media Inquiry | I am Barbara Jennings, a TV news reporter from Washington, DC. I have just read on the wire service that STP has declared an "emergency alert." Can you verify this? What happened at STP ? What warnings have been given to the public? We have heard there are casualties. How many and what was the cause of injuries or deaths? What protective actions have been taken? Will There be an evacuation? | 308 |
| 8:48 | 10 | Local | Resident | JIC | Info Request | This is Joanne Crier. What is the most serious type of accident you can have? What would happen if a bomb were dropped on the plant? Is the plant designed to withstand that? | 1085 |
| 8:50 | 11 | Local | Resident | JIC | Rumor | A resident calls to find out the official Palacios evacuation routes. She has heard that an evacuation has been ordered for Palacios. | 1306 |
| 8:53 | 12 | Local | Radio | JIC | Media Inquiry | This is Jolene Jackson with KXVC radio in Houston. We've received several calls regarding a serious accident at the South Texas Power Plant in Bay City. We'd like to go on the air with something at the top of the hour. What can you tell us? | 1102 |
| 8:56 | 13 | Elected Officials | Governor | JIC | Info request | This is Millie Nelson, the Governor's personal advisor. The Governor would like an update on the accident which is in progress at the South Texas Project. | 529 |
| 8:59 | 14 | Local | Print | JIC | Media Inquiry | Hello, I'm calling from the Victoria Advocate. I was just talking with a friend who works down at your nuclear plant and he told me the emergency you're wrestling with might get worse. Will you be releasing information soon? Why did you declare an emergency? | 1197 |

All Supplemental/Offsite Message Listing

| |
|----------------------------|
| White Team Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|-----------------------------------|----------------|--------------------|---------------|------------------|---------------|--|--------|
| <i>Classification Status: SAE</i> | | | | <i>Total: 24</i> | | | |
| 9:00 | 1 | Local | Resident | JIC | Info Request | My neighbor called to tell me that she had heard we were supposed to evacuate from Palacios. Where am I supposed to go? I am alone in the world and have no where else to go or no one to go to. | 1318 |
| 9:03 | 2 | Local | Radio | JIC | Media Inquiry | This is Sam Brown with KKVV radio in Houston. I need to get some answers to some questions, please. Do you mind if we go live with this in 5 minutes? We need some information for our listeners. What is happening? How did this happen? What is the threat to nearby areas. Is an evacuation occurring? It seems like the safe thing to do. What is the treat to populated areas like Sugarland? Can we interview the person in charge for later today, say 10:30? | 1093 |
| 9:06 | 3 | Elected Officials | Mayor | JIC | Info Request | Hello, this is mayor Stan Orange calling from West Columbia. Given the possible health effects from the radiation release, should we institute sheltering procedures in our town to be on the safe side? I understand that evacuation is not felt to be necessary at this time, but I thought perhaps, to keep our citizens as safe as possible, we might want to have people stay inside. What do you recommend? | 367 |
| 9:09 | 4 | Local | Radio | JIC | Media Inquiry | This is Warty Wall. I am with WTRB AM 97.7 radio news in New York City. This disaster in Texas sounds a lot like the Indian Point event that happened in 2000. I covered that event. Can you tell me what the similarities are in what is going on at STP compared to Indian Point? | 1223 |
| 9:12 | 5 | Local | TV | JIC | Media Inquiry | This is Stevie Wonder with ABC, Channel 13 TV in Houston. What is the latest information you have about this event? What affect will this accident have on the public? Exactly where is the nuclear power plant located? Are you opening an information center here in Houston? Can we get into the plant to interview some people handling this event? | 1315 |
| 9:15 | 6 | Local | Business | JIC | Info request | This is Jamie Broody with Arco Services in Victoria. We have two rigs that are supposed to spray for thistles near Van Vleck in Matagorda County this afternoon. I've heard there's some sort of problem at the nuclear power plant in Matagorda County. The rigs are supposed to come up from Point Comfort on Hwy 35. Can my drivers get through to Van Vleck? If not, can you suggest an alternate route? | 417 |

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| 9:18 | 7 | Local | Print | JIC | Media Inquiry | This is Fran Sutter with the Cleveland Plains Dealer. I have questions concerning the incident at the South Texas Project Nuclear Plant. What kind of emergency is it? How was it caused? What affect will this accident have on the public? What are you doing to address the media? When is the next press conference? Can we have someone call in for it? How do we do that? Can you put me on the fax list for press releases? | 729 |
| 9:21 | 8 | Local | Resident | JIC | Info Request | I live in Markham. The siren just went off. What do we need to do? The neighbors are evacuating to San Antonio! We don't have the money to stay in a hotel. Who will pay for our hotel? We are scared and do not want to die. | 1302 |
| 9:24 | 9 | Local | Radio | JIC | Media Inquiry | This is Tonya Elliot of KTRH Radio 740 AM. I have questions concerning an accident at the South Texas Project Nuclear Plant. What kind of emergency is it? How was it caused? How serious is it? Has the public around the plant been notified? | 719 |
| 9:27 | 10 | Local | Business | JIC | Info request | This is Trent Rebel with Texas State Truckers. This power plant accident has our phones ringing off the hook with questions from truckers about which routes, if any, are closed in Matagorda County. The phones are balled up and I can't get through to the Sheriff's Office in Bay City. People want to know if you can go east-west on Hwy 35 through the county and whether you can use Hwy 60 south of Interstate 59. What can you tell us about the status of these roads? | 421 |
| 9:30 | 11 | State | DEM Austin | JIC | Info Request | This is the State Operations Center. We are calling to determine the size and strength of the Palacios Airport. Does the facility have jet fuel for use? In addition, the Texas Air National Guard would like to stage some helicopters at the site. | 1095 |
| 9:33 | 12 | Local | Print | JIC | Media Inquiry | This is Joe Stemma of the Daily Tribune. We are getting reports that you have problems with the reactor. What's going on with the plant? How come no recommendations have been made for the public? When is the county opening the Center? | 194 |
| 9:36 | 13 | Local | Resident | JIC | Info Request | This is Linda Donato. My husband works at the plant. I just got a call that Lou's mother is not expected to live and he needs to come to Houston immediately. I can not reach my husband and I am worried because I know there is something going on at the plant. Can you get in touch with him? He needs to know that I will be staying at the La Quinta in Sugarland, which is close to the hospital and that he needs to come immediately. | 868 |

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| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 9:39 | 14 | Local | Print | JIC | Media Inquiry | This is Dessie Armez with Rolling Stone magazine. I want to do a feature piece on the years between Three Mile Island, Chernobyl and this accident at STP. Can you get some interviews set up for me? | 273 |
| 9:42 | 15 | Local | Resident | JIC | Info Request | I live just down from the entrance to Riverside Park, and I heard the announcement that there was an emergency at STP and now I see Sheriff's Deputies herding traffic out of the park. Why are they evacuating? Am I supposed to go, too? | 46 |
| 9:45 | 16 | Local | Resident | JIC | Info Request | I own Sandra's Rentals in Matagorda. I have 7 kayaks rented out to people who are visiting in the beach area. They told people to leave the beach, but I have rentals out there that people haven't brought back yet. Am I supposed to leave, too, because I am not leaving without my kayaks! And when I even get them back, are they going to be contaminated with radiation? | 47 |
| 9:48 | 17 | Local | Resident | JIC | Info Request | This is Jackson Brown calling. I need more hay for my livestock. I had a fire in my barn that destroyed the hay I had stored. Where can I get some more hay? | 392 |
| 9:51 | 18 | Local | Print | JIC | Media Inquiry | This is Lindsay Smith with the Arizona Daily Express. We have a similar plant located outside of Phoenix, and our readers will be interested in what is going on at STP. Who is in charge of the emergency? How many people are involved? How/where can I get all news releases? Is the plant responding in a normal fashion to the emergency? What does your community think about all this? | 1049 |
| 9:54 | 19 | Local | Resident | JIC | Info Request | Hi. I live at the Matagorda Dunes, and I'm a little confused. I heard they're kicking everybody off the beach, but I didn't hear a siren. I live right near there, so if its dangerous on the beach, its dangerous at my house. I don't have a car, so what the heck am I supposed to be doing? . | 150 |
| 9:55 | 20 | Local | Radio | JIC | Media Inquiry | This is Win Sheller at KFRE radio in Freeport. We have a report that an emergency is occurring at the South Texas nuclear plant in Matagorda County. We can't get through to the public affairs office at the plant and wanted to know if you have any information on what has happened at the plant? Do you know if there is any risk to the public? Have there been any casualties? | 441 |
| 9:56 | 21 | Local | Resident | JIC | Info Request | My wife said she thought she heard the sirens go off. Is there some kind of accident? What should we do? | 192 |

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|-------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 9:57 | 22 | Local | Resident | JIC | Info Request | This is Sam Silver. I am calling to see if any 18 wheelers can get through Matagorda County on Hwy 35. We need to offload a barge at Port O'Conner and send product to Freeport. | 1317 |
| 9:59 | 23 | Local | Resident | JIC | Media Inquiry | This is Betty Boob. I need some information for my talk show which will be aired today at 2:30 PM on Channel 11 in Houston. Who owns the plant? What kind of reactor is it? Who manufactured the system? What are you doing to fix the problem? | 1076 |
| 10:00 | 24 | Local | Business | JIC | Info request | I know that you are very busy so I will not take much of your time. My name is Jack Armory. I am the Regional Manager of Wal Mart. I have heard that a large number of responders are assisting with the emergency at the South Texas Project. I understand that these men and women are working long hours and have gone without food and water for quite sometime. I can't help with food, but I can supply bottled water, sodas and other liquids. I can provide supplies from several of my local stores for these individuals who are working in the field or at various Emergency Operation Centers. If you would contact DPS Pierce and add their needs to yours, we can deliver these supplies in the next several hours. If you can give us totals for the DPS Pierce, Bay City, and personnel in the field, we will load 3 separate trucks for distribution. Please let me know your needs as soon as possible. | 527 |

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ClassificationStatus: General

Total: 103

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|-------|---|-------|----------|-----|---------------|--|------|
| 10:03 | 1 | Local | Resident | JIC | Info Request | Is there any place safe that we can run to? The radio keeps saying that everything is under control and that the emergency is almost over. Well I'm not buying that malarkey. I'm evacuating and I'm telling all my neighbors to get out of the area, too. | 62 |
| 10:06 | 2 | Local | Resident | JIC | Info Request | I live near the power plant and I have some insurance questions? If I get radiation poisoning, who will pay for my medical care? Does the state insure my property in case we're looted if we have to evacuate? I just moved here and don't know who to talk to about these things. | 1116 |
| 10:09 | 3 | Local | TV | JIC | Media Inquiry | I am the program director calling from Channel 2 in Houston. Can you provide me some information that we can use on our noon Debbie Duncan show about those nuclear pills? If we can get some audio tape of the discussion, that would really be a plus. | 1295 |
| 10:12 | 4 | Local | Business | JIC | Trend | This is James Ernst, a driver with Dent Motor Freight. I'm with another semi and we're hauling some construction materials to the Celanese plant southwest of Bay City. I've heard about this emergency at the nuclear power plant near there. We're stopped on Hwy 60 in Wharton. We need to know if its safe to head down Hwy 60 through Bay City to the Celanese plant. If not, is there an alternate route to the Celanese plant? | 411 |
| 10:15 | 5 | Local | Resident | JIC | Info request | This is Jane Perkins. I was referred to this phone number for assistance. I am an elderly widow who lives alone. I have no transportation and I must use my wheelchair to move about. How do I get out of here? Can someone come get me? I live in a white house just west of Tin Top on the right side of the road. The house sits back from the road and I am 9/10ths of a mile from Tin Top. If you get to the Tres Palacios River you have gone too far and will have to turn around at the intersection of 521 & 2853. Please be aware that since I am elderly, handicapped, and live alone, I do have 3 large dogs that I keep outside for protection. Make sure that anyone coming to pick me up is not afraid of dogs. The dogs can be very aggressive and I cannot be of much help in controlling them due to my handicaps. | 548 |

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| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
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| 10:18 | 6 | Local | TV | JIC | Media Inquiry | This is Pat Walters from NBC news. Can you provide a statement on the status of the STP power plant? Has a release occurred? Are people being evacuated? Will there be a release? What effect would rain have on the plume should a release occur? | 320 |
| 10:21 | 7 | Local | Business | JIC | Info request | This is Willie Wonka from the Texas Motor Freight Association. We are getting dozens of calls from trucking companies requesting info on routing through or around the area of the South Texas Project nuclear plant. Companies can't get through on the telephone to local law enforcement officials in Matagorda County to obtain information. Request that you fax us a list of roads which are closed in the area so we can get it out to all of our member companies. | 448 |
| 10:24 | 8 | Local | Resident | JIC | Info request | I am scared for myself and my family. Can you tell me what I should do? | 438 |
| 10:27 | 9 | Local | Resident | JIC | Info Request | Can you help me please? My name is Saul/Juanita Orlando and I live in Prairie Estates. Other people in the neighborhood are packing up and leaving. Are we supposed to leave our home? Our car is not running. I think it is the transmission. We do have another car, but it is a stick shift and I never drive it. I'm not sure if it even has gas. I have three small children and my mother does not walk very well anymore. What should we do? | 68 |
| 10:30 | 10 | Local | Resident | JIC | Info Transfer | This is Patricia Frawley. I have tried and tried to call my husband, Tim Frawley, who works at STP. He doesn't answer the telephone and I have paged him several times. We have a family emergency. I really need to talk to him right away. Can you find him and have him call me immediately? | 1230 |
| 10:33 | 11 | Local | Resident | JIC | Info Request | This is Lilly Marks and I want to know if I can get my antidote somewhere close. I don't need a place to stay because I am coming right back here after I get my antidote for radiation. Is the antidote a pill, an injection, or a syrup? I need the antidote because I already am old and I don't need cancer also. I heard there is an extremely high rate of radiation in the area. | 635 |
| 10:35 | 12 | Elected Officials | Congressman | JIC | Info request | This is Elaine Williams with Congressman Paul's office in Lake Jackson. The Congressman called from Washington and needs some information on the response to the accident at the South Texas project. Specifically, he wants to know the following: a. Have local officials issued a disaster declaration? B. Has the state requested any federal assistance so far? If so, has FEMA responded to the requests? | 480 |

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| 10:38 | 13 | Local | Resident | JIC | Info Request | My name is Rhonda Williams and I am trying to find my relatives Jo Beth and Bill Williams. Can you tell me who to call to locate them? I know that they are not answering their telephone so I assume that they have evacuated to the Reception Center? Does the School have a telephone number to call to locate them, or can the American Red Cross help me? I was told by neighbors that a lot of people have been injured or killed. | 636 |
| 10:40 | 14 | State1 | TNRCC | JIC | Info Request | This is Kate Barrens with the TCEQ (Texas Commission on Environmental Quality.) Have any buildings been damaged? If so, what? Is there a radiation leak now? When did it start? What areas are affected? Is there someone there who can discuss with me the environmental concerns? | 1075 |
| 10:43 | 15 | Local | Resident | JIC | Info request | This is Johan Stearns. We're growing rice here on about 80 acres east of Pierce, Texas. We were getting ready to irrigate the crop using water from the Colorado River. We've heard about the accident at the South Texas Plant below us in Matagorda County. I don't want to contaminate the rice crop and my land with water from the river if it has been contaminated with radiation. Can you tell me if the water's been contaminated? If not, who can? | 493 |
| 10:46 | 16 | Local | Resident | JIC | Info Request | I have several dogs, who are just like my own children. In fact, they are better than my children. Do I need to go ahead and take them to a kennel since I can't take them to a shelter? I need to take them someplace cheap, but where they will take care of them like they were people. Where should I take them? | 1301 |
| 10:48 | 17 | Local | Resident | JIC | Info Request | This is Mary Matthews in Wadsworth. I heard that enough radiation has escaped from the nuclear plant to cause cancer in most persons. Is that true? How much radiation has escaped in my area? | 611 |
| 10:49 | 18 | Local | Resident | JIC | Info Request | This is Willie Worry from Dallas. My wife/husband went to Bay City late this afternoon to visit her/his sister. Her/His sister lives in Selkirk. I heard there is a serious problem at the STP nuclear plant which is near my sister-in-law's house. I want to know if they are in danger and if someone can contact them. I have attempted to contact them by phone but no one answers. If I can't contact them soon or find out that they are in no danger from the STP plant, I'm going to drive down there and look for them myself. | 266 |

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|-------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 10:50 | 19 | Local | Resident | JIC | Info Request | This is Peggy Sue Wilkins and I live on 521 west of the nuclear plant. Someone said that I had to leave my home and go to some kind of center located at the _____ School. I don't want to go and be exposed to a bunch of people who are probably radioactive. They are going to become real sick and I don't need any of that. I'm getting married next week and nothing is going to interfere with my plans. Who are these people who are trying to force me out of my home, and can they really do it? I personally don't care what happens to that plant, their employees, or my neighbors because I learned early in life to take care of number 1 first. | 634 |
| 10:53 | 20 | County | Fire/Medical | JIC | Info request | This is the Palacios Fire Chief. Please let the Palacios Mayor know that I have placed the entire Palacios Volunteer Fire Department on standby, in case you need our assistance. I have 4 firefighters, and myself currently available. The department will standby and can be fully activated within 10 minutes if you need us at the reception center, or any other location. I have also spoken with the Emergency Medical Services to make sure they understand our situation and I was informed that they are in the process of bringing in additional crews for the duration of the emergency. Tell him we will wait for further direction from him. | 589 |
| 10:55 | 21 | Local | Citizen | JIC | Rumor | This is Sally Parker and I manage one of the wholesale seafood companies on the Palacios water front. Some of the boat captains that we buy from just told me about an accident at the South Texas Project. They are saying all the fish are going to be confiscated. Can this be true? I called the Mayor's office but I was told that he went to the Bay City EOC and that is why I am calling you. I need information immediately and would really like to talk to the Palacios Mayor or the Matagorda County Marine Extension Agent or some other responsible person. Can we use the fresh catches now, and how do we get them to our markets? | 516 |
| 10:57 | 22 | Local | Resident | JIC | Info Request | This is Less Worry. I live in Victoria County. I heard that all our milk will be dumped for the next two weeks. What do I do for my family? What is the plant going to do to help us? | 396 |

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|-------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 10:59 | 23 | Local | Business | JIC | Trend | This is Herman/Hermine Moralez. I drive an 18 wheeler for Mack Trucking Company out of Baltimore, Maryland and I am stuck in traffic outside of Bay City, on Hwy 60. I am trying to get to FM 2668 South to make a delivery at the Celanese Plant. I am calling on my cellular phone after hearing, on my CB radio, that the roads going south are closed do to an accident at some nuclear power plant in the area. I called information and they gave me the number of the Matagorda County Sheriff. I called them and they transferred me to this number. Now I need to talk to someone who can help me. My cellular phone is acting up and I don't know how long I will be able to maintain communications, so please hurry. I have to be in Southern California in two days and I can't be delayed. How do I get around the traffic congestion. I am willing to take a chance with that radioactive stuff so that I can maintain my schedule. My cargo is perishable. If I can't deliver my cargo to Celanese who will pay my damages? | 515 |
| 11:02 | 24 | Local | Resident | JIC | Info Request | This is Clara Rose, owner of Rose's plant shop. How do I protect the plants growing in my green house? If I shut off the ventilation, they will all die and I'll be out thousands of dollars. But I surely can not let them get contaminated. I would not be able to sell any of them. | 1118 |
| 11:05 | 25 | Elected Officials | Mayor | JIC | Info Request | Hello, this is Elsa Martin of Brazoria. I am calling on behalf of the Mayor. We are getting calls regarding missing persons whereabouts. Who do I need to contact to get a comprehensive list of all of the evacuees currently in shelters? I am having trouble getting though to the county so I thought I would try here. | 275 |
| 11:08 | 26 | Local | Resident | JIC | Info Request | This is Jill Hill from West Columbia. I have seen news reports and heard interviews with different people, but I really do not understand what is going on and what the danger may be to me. What is going on? Do I have to worry here in West Columbia? | 669 |
| 11:10 | 27 | Local | Resident | JIC | Info Request | My puppy was outside playing. I've heard he is going to die from the nuclear incident. Is he going to die? Can I bring him in and wash him? Or fix him? Or will I get sick, too? | 289 |

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|-------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 11:12 | 28 | Local | Business | JIC | Info request | I need to talk with your person who is handling donations for the people displaced by the emergency at the South Texas Project. This is Samantha Shell with the Peoples Outreach in College Station. We have around a thousand comfort kits consisting of razor, comb, toothbrush, a variety of toiletries and of cosmetics, shower shoes, non-prescription medicines, and a towel and washcloth all packed in a tote bag that we would like to donate to those affected by the nuclear power plant accident who have evacuated from their homes. Can you use our comfort kits? If so, where do you want them delivered? Do you have a name and phone number of a local point of contact in Matagorda County? | 470 |
| 11:15 | 29 | Local | TV | JIC | Media Inquiry | This is Jeff Torrent from Dateline. I am planning a discussion of nuclear power plant safety on the tonight evening news segment. I plan to have the NRC commissioner participate live from his headquarters in Bethesda, Maryland. I would like to invite the FEMA director to participate live also. I really want to include an STP executive, and it would be particularly good if we could get the person in charge of this event. If this is agreeable we can arrange for a hook up at your facility or in our affiliate station studio in Houston. Can this be arranged? When can you give me a decision? | 408 |
| 11:18 | 30 | Local | Resident | JIC | Info Request | This is Pat Harris. I live in Wadsworth. I am concerned that my water has been contaminated by the STP power plant accident. I have called the county and they tell me there is nothing to worry about. I know that they probably don't have sufficient information to make that determination. I don't want to take any chances with the health of my family. I would like to have the federal government take a sample of my water and have it analyzed. I need federal assurance that the water is safe. | 330 |
| 11:21 | 31 | Local | Business | JIC | Trend | This is Warren West with Lone Star Iron and Bridge in Houston. We are slated to move flatbed trailers with steel bridge components down Hwy 35 to Port Lavaca tomorrow morning. Is Hwy 35 open through Matagorda County? If not, can you suggest an alternate route? | 469 |
| 11:22 | 32 | Local | TV | JIC | Media Inquiry | This is Jonathon Howard with CNN Headline News. I understand there has been an accident at the South Texas Project Electric Generation Station. I need enough accurate information to setup a news segment for airing within the next half hour. I need the following information: 1. What caused the accident. 2. What is the extent of the damage. 3. Have there been any injuries or fatalities at the plant? 4. Has there been, or is there an anticipated release of radioactive materials. | 513 |

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|-------|----------------|--------------------|----------------|-------------|---------------|---|--------|
| 11:23 | 33 | Local | Business | JIC | Rumor | This is Woody Green with the Salt Water Sportsman in San Angelo. We have people scheduled for a salt water fishing derby departing for Matagorda tomorrow. We're rather worried about the news we're hearing about the accident at the South Texas Plant. I have some questions: a. Can you tell me if we can drive down to Matagorda? b. Is Matagorda Bay open for fishing? If so, are there any inspections needed for fish taken in the bay? We have heard that they are going to confiscate all fish from around there. | 462 |
| 11:25 | 34 | County | Law Enforcemen | JIC | Trend | This is the Texas Department of Transportation communications center. We are getting numerous calls from the public and from trucking companies requesting information on the status of State Highway 60 and State Highway 35 in Matagorda County due to the nuclear power plant accident. Are highways open or are there designated detours? I need this information as soon as possible. | 452 |
| 11:27 | 35 | Local | Resident | JIC | Info Request | This is Louis Holland of Wadsworth. I evacuated because of the power plant meltdown. I didn't have time to move my belongings. I have a collection of very rare stamps which I need to retrieve. I am very concerned that looters will get to my home before we are allowed back in. What do I need to do to get back to my house? | 342 |
| 11:30 | 36 | Local | Resident | JIC | Info Request | When can I go back to my farm? I live close to Collegeport. I need to feed my cows and check on my chickens. | 281 |
| 11:32 | 37 | Local | TV | JIC | Media Inquiry | This is CNN in Atlanta. We are sending a media team to Austin to get the State's perspective on the seriousness of this emergency. We'd like to interview the Director of Emergency Management. Can you accommodate this request? | 1117 |
| 11:35 | 38 | Local | Business | JIC | Trend | This is Mike/Michelle Pointer with Bubba's Fish in Victoria. We have a truck out stocking ponds in the Coastal Bend. The driver called and said he had heard that he could not get through Matagorda County to deliver in Brazoria County. Do you expect that the roads in Matagorda County will reopen soon? We need to keep our trucks moving. | 426 |
| 11:37 | 39 | Local | Resident | JIC | Rumor | This is Bob Baxter. My family and I have been camping out on the Tres Palacios River. We've eaten fish we caught and went swimming in the water. We heard they are confiscating all the fish taken in the area. Should we go to the hospital to see if we're contaminated? We are afraid we may have eaten contaminated fish. | 1120 |

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| 11:38 | 40 | Local | Print | JIC | Media Inquiry | This is Judith Duncan of the Daily Press. Can you give me the telephone phone numbers that people should call if they need to get more information? What number should they call to get information about loved ones that may have evacuated? | 134 |
| 11:40 | 41 | Local | Business | JIC | Info Transfer | This is Drew Macmillan with the Salvation Army in Houston. I've got a group of 50 volunteers in Houston who are ready to go to Bay City to help with the emergency. Who should we report to when we get there? | 1125 |
| 11:41 | 42 | Federal | Executive Branc | JIC | Rumor | This is Douglas Fairfield of the U.S. Fish and Wildlife Service. I was given this phone number to call for updated information about the accident at the South Texas Project in Matagorda County, Texas. Knowing that your location is one of the major migratory bird sanctuaries in North America, and the amount of aqua culture farming and marine life you have in the area, we have great concerns on the effects of the radiation release on the bird population in your area and on fish farming and marine life? Can you give us an estimate of the numbers and types of birds that might be affected? We are also requesting any information available about any unexplained bird kills. We are also concerned about the many species of fish that are located in the rivers which enter the Gulf of Mexico. We have heard the USDA is in the process of confiscating all fish in the area. | 551 |
| 11:42 | 43 | Local | Resident | JIC | Info Request | I just left the Reception Center and I don't understand what I need to do to qualify for assistance. I can't get back to my home now that we have been evacuated. What is it that I need to have exactly and when do I get to go home again? | 270 |
| 11:44 | 44 | Local | Citizen | JIC | Info Request | My name is Hazel Hazard and I heard from my neighbors on Selkirk Island that they didn't hear any sirens and that we are in a safe area. I told them that they are mistaken because I did hear the closest siren and I am definitely evacuating. Is it possible to arrange to board my 2 French bulldogs in the Bay City area? I would like to take care of them first. I do have a brother who lives in Lake Jackson, could I go there instead of to (name city hosting reception center) and take my dogs with me? | 697 |
| 11:47 | 45 | County | Law Enforcemen | JIC | Info request | We have the Smith and Jones families, 3 adults/4 children, who evacuated from Matagorda County because of the accident at the South Texas Nuclear Plant. They came here because they have dogs and cats with them and the information they had said they could not take pets to the local reception center. People and pets are currently in the lobby of a local motel. We are unable to get through to Matagorda County by phone or fax. Can you advise us how to handle the people, pets, and their two vehicles as soon as possible? | 471 |

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| 11:50 | 46 | Local | Business | JIC | Info request | Hello, this is Mr. James Ayers with the World Watch Institute in Washington, D.C. We are an international organization that monitors industrial and governmental activities around the world that have the potential of affecting the environment. I understand that radioactive materials may have been, or is about to be, released into the environment around the STP Nuclear Plant. We are aware that you have been involved in a Radiological Response Program and we are examining the possibility of future legal actions that might be required to ensure that you and the Federal Government take the steps necessary to ensure the safe and effective cleanup of the areas possibly contaminated by this incident. Under the Freedom of Information Act, we request complete copies of all records made during the response to the incident. We will follow up on this request, by registered mail, with the next 24 hours. I have also contacted the State of Texas and made an identical request. | 538 |
| 11:51 | 47 | Local | Resident | JIC | Info Request | I just heard about the accident at the nuclear plant and I have some concerns. I live in Hales Acres. I raise Parakeets that I wholesale to pet stores around the State. I probably have about 175 here at the house today and I need help boxing them up so that I can save them. It is my only income. Can you provide assistance? My contacts tell me that radiation will genetically alter my birds if left in this area. | 667 |
| 11:53 | 48 | Local | Print | JIC | Media Inquiry | Can you tell me when the initial information of the STP accident will be available? We are very interested in having some data to base our independent calculations on dose to the public. We are looking for monitoring and sampling results as well as plume dispersion. | 283 |
| 11:55 | 49 | Local | Print | JIC | Media Inquiry | This is Sammy Small from the San Antonio Express. What is the present classification and what is it based on? Which is the affected unit? Is the NRC at the plant? Is the reactor completely shut down? What is the power level? Is the plant still producing electricity? What's happening at the other unit? Is this event going to have any effect on the amount of electricity available to San Antonio? | 324 |

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| 11:58 | 50 | Local | Law Enforcemen | JIC | Info request | This is Charlsie/Chuck Jones at the police department in Port Lavaca. We have the driver of a tractor-trailer rig loaded with about 10,000 lbs. of watermelons pulled over on the Hwy 35 near the What-A-Burger here in town. The driver said he came through Matagorda County on FM 521 earlier this morning. He thinks he may be contaminated with radioactivity. What are we supposed to do with the driver and with his truck? Are we supposed to send them back to Matagorda County, call the state Health Department, or check them over ourselves? Our fire department has radiological instruments and could check the driver and truck, but we're not sure we want to wash them down here in Port Lavaca if they're contaminated. We need some guidance right now. | 495 |
| 11:59 | 51 | Local | Print | JIC | Media Inquiry | What does EPA have to say about the disaster at STP? Is the NRC handling the accident correctly? How are the protective action recommendations made going to protect the people from this nuclear holocaust? EPA's job is to protect the environment, why isn't EPA out there making their own recommendation? Is NRC bullying you into going along with inadequate protective measures? I want to interview someone from the EPA and NRC. | 274 |
| 12:01 | 52 | Local | Resident | JIC | Info Request | This is Michelle Willow and I need to contact my family. I have been out of town and when I arrived at Houston Hobby Airport I heard about the emergency at South Texas. I tried to call my family but no one answers. I did contact my sister-in-law in San Antonio and she said that my husband called her and said that someone ordered him to evacuate to some reception center. My sister-in-law heard this number being mentioned over the TV. The family consists of my husband, Harvey, and teenage son Terry. If you can contact either of them I would appreciate it. In the meantime what should I do? Stay in Houston or what? | 671 |
| 12:04 | 53 | Federal Agencies | Executive Branc | JIC | Info request | Hello, this is Ms. Hanna Barbara the director of the Small Business Administration (SBA). We understand that FEMA is organizing the deployment of federal staff to the STP site to assist the Lead Federal Agency (LFA) in providing assistance to the state. The SBA intends to send a staff person to participate in the financial assistance annex to the Federal Response Plan (FRP). Can you please provide me with details of how to get to the site and where to report? What would be a good hotel to stay in? | 318 |

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| 12:07 | 54 | Local | Resident | JIC | Info Request | This is Wallace Weaver and I live in Bell County. I was about to leave for a few days vacation near Matagorda Bay. I just heard that the South Texas Project has experienced a problem and I was wondering if we should delay our vacation? My husband and 5 children have been very anxious to leave the house, but I want to be absolutely positive that there is no chance of being in an area that could have radioactive fallout. I tried to get information from the Matagorda County Sheriffs Office and they referred me to this number. I am tired of getting the runaround and want some valid information. Is it safe and are there any restrictions on fishing or camping in the area? | 514 |
| 12:10 | 55 | Local | Print | JIC | Media Inquiry | Hi, this is Billy Taylor from the Matagorda County Advocate. Since the evacuation order, we have been getting calls from the citizens asking where they might go to get money or temporary housing until this STP thing blows over. What should we tell them? | 268 |
| 12:13 | 56 | Local | Business | JIC | Info request | This is Justin Ferguson at the Triangle Turf Farm in Wadsworth. We are in the process of loading a full flatbed of turf to be delivered to Kentucky. I know that there has been an accident at the South Texas Project and they are evacuating some areas of the EPZ. The turf that we are loading was processed yesterday and we should be finished loading within the next 30 minutes. We have a driver ready to leave for Kentucky as soon as the load is ready. Is the turf safe to transport if we can be on the road in the next half hour? If not, can you provide someone to check the load to make sure that it is safe? We have a large investment in this load of turf and want to deliver it as soon as possible but we want to make the client and driver aware of any safety issues. We don't think the turf can be contaminated but we want to be honest and safe, so we are asking for your assistance. | 553 |
| 12:16 | 57 | Local | Business | JIC | Info request | This is Ted Carter, I'm a dispatcher for the Union Pacific Railroad. We've been advised of the accident at the South Texas Project and we need to verify the extent of the contamination, if any, with regard to our tracks in Matagorda County. Can you tell me if we can still run our trains through Matagorda County? Are there any areas that have been closed off? When did the accident happen? How much track is affected by this accident, and to what extent? Are the tracks contaminated? Is it possible that trains that passed through the area are contaminated? What about our train crews that went through the area? | 518 |

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| 12:19 | 58 | Local | Resident | JIC | Info Request | This is Bill Jones and I run a local farm near STP power plant. I understand that some federal organizations will be set up in our area that they are going to have airplanes and helicopters buzzing around. I don't want to have my animals unnecessarily frightened. Can you tell me when and where the Federal government are going to set up their operations and what they will be doing? | 271 |
| 12:21 | 59 | Other | Business | JIC | Info request | This is Jane Sheridan with Center Nursery in Victoria. We have two truckloads of sod that have arrived at our nursery. They were hauled out of Matagorda County near Markham this morning. We are concerned that they may be contaminated with radiation from the incident at the South Texas Plant. Can you tell me if it is safe to unload the sod and put it out for sale? | 460 |
| 12:24 | 60 | Local | Resident | JIC | Rumor | I need to talk someone. This is Michelle Carlton and I live in Bay City. I know that I am not in a danger area from the accident at the South Texas Project, but my sister's family lives in Collegeport and I have not been able to contact her since this emergency began. I have heard rumors that several fatalities have occurred in that area and the bodies of these individuals are being cremated, without next of kin approval, because of the high contamination levels. How can I find out the status of my sister and her family? I will not give permission for cremation for any reason. | 562 |
| 12:27 | 61 | Local | Resident | JIC | Info Request | I live in Matagorda County. With the problem at the nuclear plant, I don't know if our water is safe to drink anymore. I understand it may be dangerous, particularly for my 18-month old child to drink the water. How do I get safe water? | 331 |
| 12:30 | 62 | Local | Resident | JIC | Info Request | My family is extremely concerned. How much radiation can we get before we die? How will we feel if we get radiation poisoning? How long do we have to wait before we can eat food from the area? Will there be a unified opinion of the scientists and medical doctors regarding safety of living in the contaminated zones? Who is responsible if we go back to our homes and we suddenly become sick either now or in the future? | 381 |
| 12:33 | 63 | Local | Resident | JIC | Rumor | My daughter, who works at the plant, called her husband a few minutes ago and told him there was a problem in the reactor and that he should leave and go stay with his sister in Austin. What is going on? | 200 |

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| 12:36 | 64 | Local | Business | JIC | Trend | This is Adele Savage and I am calling for my manager Mr. Stanley Murphy of the Palacios Seafood, Shrimp, and Crab. We are hearing a lot of stories about the nuclear power plant accident. Has the USDA actually stated that they are going to confiscate all seafood caught and processed since 5:00 a.m. today? We can prove that all of our catch comes from far out in the Gulf and should not be contaminated by the accident. Can we file for an exemption to this confiscation order? Are all of the boats and processing houses going to be under this rule? | 683 |
| 12:39 | 65 | Local | Resident | JIC | Info Request | Are Texas taxpayers going to have to foot the bill for this accident? Will the power plant have to pay the state for expenses incurred by state personnel responding to the emergency? What about those poor folks who are having to evacuate. Who is going to take care of them? | 259 |
| 12:41 | 66 | Local | Print | JIC | Media Inquiry | This is Bob Meadows of the Dallas Morning News. We have a similar plant in North Texas. My readers are going to be very interested in getting any information they can involving this event. I have some questions for you. 1.) What are the emergency level and which one are you in? 2.) Do the operators have to leave the control room? 3.) What is the purpose of the containment? 4) Will the containment hold for this accident, or will it explode like Chernobyl? | 1063 |
| 12:44 | 67 | Local | Resident | JIC | Info Request | There's no radiation, is there? This must be a ploy by the LCRA group trying to take over our community. You folks think you can scare me into selling my property cheap so you can take over this whole area. Well, you can forget that! I'm not going to leave my river property no matter what you say. | 78 |
| 12:47 | 68 | Local | Print | JIC | Media Inquiry | My name is Billie Mitchell from the Houston Chronicle. I would like to ask a few very quick questions. Really, won't take more than a minute. Just confirming information about an article that is ready to go to press as we speak. May I? Thank you. First, we have heard there have been many injuries at the plant. Can you tell me who was injured and how they were injured? What is the status of the injured? Are they contaminated? what happened, what any injured personnel at the plant, and if so, are these radiation injuries? Okay secondly, which towns are in danger and have any been evacuated yet? | 76 |
| 12:50 | 69 | Local | Resident | JIC | Info Request | I ranch in Matagorda County. I need a veterinarian. I have several cows that are delivering and my usual veterinarian has evacuated. Can you help me find a veterinarian? | 375 |

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| 12:53 | 70 | Local | Business | JIC | Trend | My name is Stella White. I am with Atlas Van Lines located in Miami, Florida. We have a delivery of household goods scheduled for tomorrow morning in Wadsworth, Texas and another delivery in Palacios, Texas the following morning. We are aware of the accident at the nuclear plant but are not sure how close these deliveries are to the accident site. My crew will be calling me this evening and I would like to inform them of any developments. Are we going to be able to make our deliveries this week to both homes? Are our drivers going to be placed in any danger by being in Matagorda County? What kind of dangers are we dealing with? If storage is called for, who will pay for this? | 541 |
| 12:56 | 71 | Local | Resident | JIC | Info Request | This is Mr. Runnels. I just got back to my ranch which is just north of the plant. We have a power outage here and I need electricity to keep my operation going. Can I get a portable electric generator? | 374 |
| 12:59 | 72 | Local | Business | JIC | Trend | This is Bart Snow with the Central Motor Freight dispatch office in Houston. I need to speak with someone familiar with road closures caused by the nuclear power plant accident in Matagorda County. We have six local stations in the Coastal Bend area that are trying to route some trucks to pick and deliver freight. We're getting confusing and conflicting information about road closures in the Matagorda County area. I can't get through to the local law enforcement or TxDOT people. Can you fax me a list of the roads known to be closed by the nuclear power plant accident? | 486 |
| 13:00 | 73 | Local | Business | JIC | Rumor | This is Becky Pierce from Garcia & Son Seafood in Palacios. My friend, Allison Savage, just called me to tell me that the USDA is going to confiscate all seafood caught after 5:00 a.m. this morning due to possible contamination from the accident at STP. This is a terrible thing to do. Our catch was made many miles out in the Gulf, so it couldn't possibly be contaminated. I understand a waiver is available but I don't know how to apply for one. Would you do me a favor and assist me in obtaining that waiver? | 684 |
| 13:02 | 74 | Local | Resident | JIC | Info Request | My name is Rick/Audrey White. My two sons told me they were going to the beach today. I just tried calling them on their cell phone and got no answer. How can I get in touch with them to see if they are safe? How can I find them? What will happen to them? Will you let me know if you find them? | 79 |

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| 13:04 | 75 | Federal Agencies | USN | JIC | Info request | This is Col. Tommy Foster, the Corps Chemical Officer at Fort Hood, Texas. The DCSOPS (Director of Chemical Support Operations) at SCOM (Service Command) has contacted us and directed that we provide you with whatever support you need. First, please give me a quick briefing on your current situation at the South Texas Project. We have a chemical battalion and two chemical companies. Do you need personnel for decontamination support? How much support do you anticipate that you'll need and for how long? | 567 |
| 13:06 | 76 | Local | Resident | JIC | Info Request | Can you help me, please? I live on Matagorda Beach and we have a small backyard garden that we depend on for most of our vegetables. Is it safe for us to keep harvesting our lettuce if we continue to wash it thoroughly? We usually rinse it quite well to get all that wind blown sand out of it anyway. | 77 |
| 13:08 | 77 | Local | Business | JIC | Rumor | This is Jim Gun with the Lower Colorado River Authority in Austin. We are getting dozens of calls from people in towns along the lower Colorado River asking if their water is radiologically contaminated because of the incident at the South Texas Plant. Apparently some TV news program mentioned that the plant was near the Colorado River and uses water from it, and now a lot of people, even those upstream, think they may have contaminated water. If there is not a problem with contamination in the river, I urge Texas Commission on Environmental Quality (TCEQ) or the Health Department to get out a news statement telling people that they don't have cause to worry. | 450 |
| 13:10 | 78 | County | Law Enforcemen | JIC | Trend | This is Jack Macaw with Harris County. Local sheriff and police departments are getting calls from local people and travelers wanting to know if they can drive through Matagorda County on Hwy 35?. We've been unable to get calls through to the usual sources to get current information. We need to know whether these routes are open or not. If they're not, can you advise us what we should be telling people as far as suitable alternates? Truckers are particularly needing to know. | 494 |
| 13:12 | 79 | Local | Resident | JIC | Info Request | This is Trudy Samson from Lake Jackson and I heard that all of the roads are blocked in Matagorda County and I don't know how my husband will get home. Would someone check the roads to see if he could be stranded along FM521? He drives that road every day and he is about 3 hours late getting home from work. I'm really worried because I know there are reports of severe radiation in the area. | 612 |

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| 13:14 | 80 | Other | Judge | JIC | Rumor | I need to talk to someone about water issues related to the accident at the South Texas Nuclear Plant. This is Ray Jones, Jackson County Judge. We've had dozens of people calling the courthouse worried about the safety of their water supplies because of the emergency at the South Texas Plant. People are worried about their wells, about the municipal water systems in Edna and Ganado, and even the water in Lake Texana. The local stores are having a run on bottled water. Can you tell me if the state plans to test the water here in Jackson County for radiation or do something to reassure local residents that their water is safe? | 478 |
| 13:16 | 81 | Local | Resident | JIC | Info Request | This is Hannah Storm and I live on FM 1468, back in the trees. I just heard a news bulletin requesting persons to go to their shelters. I don't have a shelter and I don't know where the nearest fallout shelter is located. Can you tell me where my assigned shelter is located? I never thought I would need one especially since the Russians have ended the cold war. I am scared. | 613 |
| 13:18 | 82 | Local | Business | JIC | Info request | This is Paula Angler, the Postmaster in Bay City. Do I need to have the mail that was in the accident areas decontaminated? Are my carriers going to be able to deliver the mail tomorrow? I called all of the carriers back today before they had a chance to finish their routes so they will have a double load tomorrow. Should I tell them to come in early to get a head start? If they can't deliver tomorrow, when will they be able to? | 517 |
| 13:20 | 83 | Local | Business | JIC | Rumor | This is Irene Simmons of the Bay City Chamber of Commerce. I need some answers. I have heard there are many casualties and that there are going to be more. How many are there and what has happened to them? Can you tell me how much longer we will be in an emergency situation? Do you foresee any permanent problems for our city? Thanks for the information. We are just trying to be prepared if any calls for information come in. | 588 |
| 13:21 | 84 | Local | Business | JIC | Rumor | This is Ted Dunmore out at the Wharton Livestock Auction and we have our weekly auction at 11:00 a.m. every Wednesday. We have heard a lot of rumors today, but things are getting a little out of hand. I understand that the USDA has ordered confiscation of all seafood caught in this area because of the accident at STP. Is this true? Will the USDA confiscate cattle, hogs, sheep, etc., which were in the specified zones? I am concerned about a lot of the animals here at the auction, and where they came from. Do any of us here at the auction have anything to worry about? We know that the fishermen are obtaining waivers that protect them from having their catches confiscated, is there a similar waiver for the meat producers? | 687 |

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| 13:22 | 85 | Local | Resident | JIC | Info Request | Hi. I am Sally Jenkins. My home is in Hales Acres. I work in Houston and I have not been able to talk to my daughter or mother. I think they have been evacuated to Lake Jackson. Can you provide me the location of the facility in lake Jackson where they are? Do you have a phone number for the facility? Can you call me and let me know where they are? | 1290 |
| 13:23 | 86 | Local | Business | JIC | Rumor | This is Bin Van Trine of Trine's Brothers Seafood in Palacios. We just heard from a friend that we need to apply for a waiver to avoid a confiscation of our seafood by the USDA. What is happening? Our seafood is not contaminated. We fish far out into the Gulf of Mexico so it is impossible for the catch to become contaminated. My friend, Able Savage, has already obtained her waiver and we need your assistance in getting ours. | 685 |
| 13:24 | 87 | Local | Resident | JIC | Trend | This is Sandra Bullock and I want to know if our water supply is any good. My husband just spent a lot of money on a new well and now this accident at the nuclear plant has us concerned. All of my neighbors around Palacios are concerned. Is it safe to drink? Can I use it for cooking? I have three small children who need baths several times a day. Can I use our well water for that? I also raise AKC Champion Boxers and I need to know if the water will affect them. | 621 |
| 13:26 | 88 | Local | TV | JIC | Media Inquiry | This is Jennifer Lee. I'm with CNN. I've been following the STP story, and I heard something about DOE bringing FRMAC. Who or what is FRMAC? Who controls FRMAC? What do they do? | 282 |
| 13:28 | 89 | Local | Resident | JIC | Info Request | This is Sue Percy. My father-in-law is 80 years old and has trouble remembering things. He came to the shelter with us, but now he is gone. We have looked everywhere, but we are quite sure he went back home. He has lived there for over 60 years. We want the county to send someone to the area to look for him. We live in Hales Acres, first street as you come from Bay City, first house on the left. | 277 |
| 13:31 | 90 | Elected Officials | Judge | JIC | Info request | This is Mayor Jones in Edna. We have a number of local citizens who are calling to ask about radiation problems here in Jackson County because of this accident that they've had at the South Texas Plant. I need to know if there is any radiation threat to people here in Jackson County. And I also want to know if there are any precautions people here need to be taking with respect to water supplies, produce, meat, and milk. The ranchers want to know if there is going to be any kind of quarantine regarding the movement of livestock out of the county. | 422 |
| 13:33 | 91 | Federal Agencies | EPA | JIC | Info request | This is Billy Reify from the EPA. Tell me what we're doing to keep the people in the field updated on the accident. | 369 |

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| 13:34 | 92 | Local | Resident | JIC | Info Request | This is Dr. Joe Cannon from the Gulf Coast Medical Center. This is the only medical facility in the county and I have received several calls from people who have been evacuated from the Bay City area. They are staying with relatives in Wharton County and they think they may have been contaminated during the evacuation. Who can give me information on where to send these people to be tested? | 386 |
| 13:37 | 93 | Local | Resident | JIC | Info Request | We were coming to the Market Days this week, but I saw on TV there's a radioactive accident at that nuclear plant there. Is the market still on? We rely on your market for income. | 51 |
| 13:40 | 94 | Local | Resident | JIC | Info Request | This is Jack Worthy of the Union of Concerned Scientists. I understand that the FRMAC (Federal Radiological Monitoring and Assessment Center) is going to be set up somewhere around the site. Can you tell me where it will be located and how I go to get there to see what is going on? Will the NRC be conducting it's operations from the EOF or the FRMAC? If not the FRMAC, who will be leading things over there? | 379 |
| 13:42 | 95 | Local | Resident | JIC | Info Request | I'm concerned. I live just west of Markham. I would like to know if it is safe to live there now. Will there be anyone to evaluate my family for medical problems associated with this accident? Is this accident as bad as Chernobyl? I saw on the Internet that 400,000 people died from that. Is this going to be that deadly? | 357 |
| 13:44 | 96 | Local | Resident | JIC | Info Request | I am hearing that it is alright to go back into my home. I live in Parry Estates. They are telling me that there is some radiation in the area, but it is not harmful. I will not go back to that home until the levels are back to where they were before the accident. I want the insurance company to give me money to move away from the area. I will not expose my children to any radiation levels that may be hazardous to them years down the line. I want out and I want out now! | 355 |
| 13:46 | 97 | Local | Business | JIC | Rumor | My name is Gertrude Rosen and I work at the Pride of Orleans Company in Palacios. We were told that the USDA is in the process of confiscating seafood in our area which might be contaminated by radiation from the incident at the nuclear power plant. The rumor is that a waiver is available to those who can prove the catch was made many miles offshore. We can do that, but I need you to tell me where to go to obtain this waiver. | 686 |

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| 13:48 | 98 | Local | Business | JIC | Info request | This is Joey Heard, the supervisor at Lake Texana State Park in Jackson County. We've heard that there's some sort of problem at the South Texas Plant east of here. I have about two dozen campers and a large group of boaters who want to know if there is any threat of radiation reaching over here. They want to know if it's safe to stay here at the park or do they need to evacuate. And if they should evacuate, which areas should they avoid traveling through. Can you help me with this information? | 414 |
| 13:50 | 99 | Local | Resident | JIC | Info Request | My friend and I have reservations this weekend at a bed and breakfast in Matagorda. Are you going to have this reactor thing taken care of by then? I guaranteed our room with my credit card, and now no one will answer my call at the hotel. Will I have to pay for the room? | 61 |
| 13:52 | 100 | Local | Resident | JIC | Info Request | I purchased some of those radiation pills from nukepills.com. Should I take them now? | 1291 |
| 13:54 | 101 | Local | Resident | JIC | Info Request | I've had it with you high and mighty, wealthy utilities. You steal our money with your high electric rates and then you ruin the land with your radiation. I want to be bought out so I can live somewhere where there aren't any nuclear power plants. | 75 |
| 13:56 | 102 | Local | Resident | JIC | Info Request | I am new to the area and am used to doing volunteer work. Where can I go to help out? In the community where I last lived, I was a Red Cross volunteer and worked at a Mass Care facility. | 63 |
| 13:58 | 103 | Local | Print | JIC | Media Inquiry | Hello, my name is Jim Jenkins with AP and I'm interested in how the state is going to conduct its radiological assessment now that the federal government is going to set up it's FRMAC (Federal Monitoring and Assessment Center operation. How, exactly, will the state coordinate its efforts with the federal government? | 373 |

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| <i>ClassificationStatus: SAE</i> | | | | <i>Total: 24</i> | | | |
| 9:00 | 1 | Local | Resident | JIC | Info Request | My neighbor called to tell me that she had heard we were supposed to evacuate from Palacios. Where am I supposed to go? I am alone in the world and have no where else to go or no one to go to. | 1318 |
| 9:03 | 2 | Local | Radio | JIC | Media Inquiry | This is Sam Brown with KKVV radio in Houston. I need to get some answers to some questions, please. Do you mind if we go live with this in 5 minutes? We need some information for our listeners. What is happening? How did this happen? What is the threat to nearby areas. Is an evacuation occurring? It seems like the safe thing to do. What is the treat to populated areas like Sugarland? Can we interview the person in charge for later today, say 10:30? | 1093 |
| 9:06 | 3 | Elected Officials | Mayor | JIC | Info Request | Hello, this is mayor Stan Orange calling from West Columbia. Given the possible health effects from the radiation release, should we institute sheltering procedures in our town to be on the safe side? I understand that evacuation is not felt to be necessary at this time, but I thought perhaps, to keep our citizens as safe as possible, we might want to have people stay inside. What do you recommend? | 367 |
| 9:09 | 4 | Local | Radio | JIC | Media Inquiry | This is Warty Wall. I am with WTRB AM 97.7 radio news in New York City. This disaster in Texas sounds a lot like the Indian Point event that happened in 2000. I covered that event. Can you tell me what the similarities are in what is going on at STP compared to Indian Point? | 1223 |
| 9:12 | 5 | Local | TV | JIC | Media Inquiry | This is Stevie Wonder with ABC, Channel 13 TV in Houston. What is the latest information you have about this event? What affect will this accident have on the public? Exactly where is the nuclear power plant located? Are you opening an information center here in Houston? Can we get into the plant to interview some people handling this event? | 1315 |
| 9:15 | 6 | Local | Business | JIC | Info request | This is Jamie Broody with Arco Services in Victoria. We have two rigs that are supposed to spray for thistles near Van Vleck in Matagorda County this afternoon. I've heard there's some sort of problem at the nuclear power plant in Matagorda County. The rigs are supposed to come up from Point Comfort on Hwy 35. Can my drivers get through to Van Vleck? If not, can you suggest an alternate route? | 417 |

All Supplemental/Offsite Message Listing

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|----------------------------|
| White Team Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 9:18 | 7 | Local | Print | JIC | Media Inquiry | This is Fran Sutter with the Cleveland Plains Dealer. I have questions concerning the incident at the South Texas Project Nuclear Plant. What kind of emergency is it? How was it caused? What affect will this accident have on the public? What are you doing to address the media? When is the next press conference? Can we have someone call in for it? How do we do that? Can you put me on the fax list for press releases? | 729 |
| 9:21 | 8 | Local | Resident | JIC | Info Request | I live in Markham. The siren just went off. What do we need to do? The neighbors are evacuating to San Antonio! We don't have the money to stay in a hotel. Who will pay for our hotel? We are scared and do not want to die. | 1302 |
| 9:24 | 9 | Local | Radio | JIC | Media Inquiry | This is Tonya Elliot of KTRH Radio 740 AM. I have questions concerning an accident at the South Texas Project Nuclear Plant. What kind of emergency is it? How was it caused? How serious is it? Has the public around the plant been notified? | 719 |
| 9:27 | 10 | Local | Business | JIC | Info request | This is Trent Rebel with Texas State Truckers. This power plant accident has our phones ringing off the hook with questions from truckers about which routes, if any, are closed in Matagorda County. The phones are balled up and I can't get through to the Sheriff's Office in Bay City. People want to know if you can go east-west on Hwy 35 through the county and whether you can use Hwy 60 south of Interstate 59. What can you tell us about the status of these roads? | 421 |
| 9:30 | 11 | State | DEM Austin | JIC | Info Request | This is the State Operations Center. We are calling to determine the size and strength of the Palacios Airport. Does the facility have jet fuel for use? In addition, the Texas Air National Guard would like to stage some helicopters at the site. | 1095 |
| 9:33 | 12 | Local | Print | JIC | Media Inquiry | This is Joe Stemma of the Daily Tribune. We are getting reports that you have problems with the reactor. What's going on with the plant? How come no recommendations have been made for the public? When is the county opening the Center? | 194 |
| 9:36 | 13 | Local | Resident | JIC | Info Request | This is Linda Donato. My husband works at the plant. I just got a call that Lou's mother is not expected to live and he needs to come to Houston immediately. I can not reach my husband and I am worried because I know there is something going on at the plant. Can you get in touch with him? He needs to know that I will be staying at the La Quinta in Sugarland, which is close to the hospital and that he needs to come immediately. | 868 |

All Supplemental/Offsite Message Listing

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|----------------------------|
| White Team Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 9:39 | 14 | Local | Print | JIC | Media Inquiry | This is Dessie Arnez with Rolling Stone magazine. I want to do a feature piece on the years between Three Mile Island, Chernobyl and this accident at STP. Can you get some interviews set up for me? | 273 |
| 9:42 | 15 | Local | Resident | JIC | Info Request | I live just down from the entrance to Riverside Park, and I heard the announcement that there was an emergency at STP and now I see Sheriff's Deputies herding traffic out of the park. Why are they evacuating? Am I supposed to go, too? | 46 |
| 9:45 | 16 | Local | Resident | JIC | Info Request | I own Sandra's Rentals in Matagorda. I have 7 kayaks rented out to people who are visiting in the beach area. They told people to leave the beach, but I have rentals out there that people haven't brought back yet. Am I supposed to leave, too, because I am not leaving without my kayaks! And when I even get them back, are they going to be contaminated with radiation? | 47 |
| 9:48 | 17 | Local | Resident | JIC | Info Request | This is Jackson Brown calling. I need more hay for my livestock. I had a fire in my barn that destroyed the hay I had stored. Where can I get some more hay? | 392 |
| 9:51 | 18 | Local | Print | JIC | Media Inquiry | This is Lindsay Smith with the Arizona Daily Express. We have a similar plant located outside of Phoenix, and our readers will be interested in what is going on at STP. Who is in charge of the emergency? How many people are involved? How/where can I get all news releases? Is the plant responding in a normal fashion to the emergency? What does your community think about all this? | 1049 |
| 9:54 | 19 | Local | Resident | JIC | Info Request | Hi. I live at the Matagorda Dunes, and I'm a little confused. I heard they're kicking everybody off the beach, but I didn't hear a siren. I live right near there, so if its dangerous on the beach, its dangerous at my house. I don't have a car, so what the heck am I supposed to be doing? . | 150 |
| 9:55 | 20 | Local | Radio | JIC | Media Inquiry | This is Win Sheller at KFRE radio in Freeport. We have a report that an emergency is occurring at the South Texas nuclear plant in Matagorda County. We can't get through to the public affairs office at the plant and wanted to know if you have any information on what has happened at the plant? Do you know if there is any risk to the public? Have there been any casualties? | 441 |
| 9:56 | 21 | Local | Resident | JIC | Info Request | My wife said she thought she heard the sirens go off. Is there some kind of accident? What should we do? | 192 |

All Supplemental/Offsite Message Listing

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|----------------------------|
| White Team Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|-------|----------------|--------------------|---------------|-------------|---------------|---|--------|
| 9:57 | 22 | Local | Resident | JIC | Info Request | This is Sam Silver. I am calling to see if any 18 wheelers can get through Matagorda County on Hwy 35. We need to offload a barge at Port O'Conner and send product to Freeport. | 1317 |
| 9:59 | 23 | Local | Resident | JIC | Media Inquiry | This is Betty Boob. I need some information for my talk show which will be aired today at 2:30 PM on Channel 11 in Houston. Who owns the plant? What kind of reactor is it? Who manufactured the system? What are you doing to fix the problem? | 1076 |
| 10:00 | 24 | Local | Business | JIC | Info request | I know that you are very busy so I will not take much of your time. My name is Jack Armory. I am the Regional Manager of Wal Mart. I have heard that a large number of responders are assisting with the emergency at the South Texas Project. I understand that these men and women are working long hours and have gone without food and water for quite sometime. I can't help with food, but I can supply bottled water, sodas and other liquids. I can provide supplies from several of my local stores for these individuals who are working in the field or at various Emergency Operation Centers. If you would contact DPS Pierce and add their needs to yours, we can deliver these supplies in the next several hours. If you can give us totals for the DPS Pierce, Bay City, and personnel in the field, we will load 3 separate trucks for distribution. Please let me know your needs as soon as possible. | 527 |

This is a drill!

To: Access Control Point Personnel

From: Traveler - S. Willis

Location: LeTulle Park – T/ACP

Time: 11:45

Message: Your name is S. Willis. You are a lawyer from Lake Jackson. You were just driving through when you heard about the accident at the power plant. You want to go into the evacuated area so you can determine firsthand the effects of radiation on the environment. You are not afraid of possible radiation exposure because you have read that tuning your car radio to the Emergency Alert Station (EAS) frequency will provide accident information. As long as you can still hear the EAS broadcasts, you believe that you will not be in personal danger.

ADDITIONAL NOTE TO SIMULATOR:

Go through both control point stations with same story no matter if you are approved or denied entry into the evacuated area. If allowed entry at the first access control point, the team will provide you with a self-reading dosimeter (SRD) and fill out an Emergency Worker Radiation Exposure Record Form for you. Make up whatever answers are needed. Put the SRD aside before approaching the other control point station.

NOTE TO CONTROLLER:

S. Willis and car are not contaminated

This is a drill!

To: Access Control Point Personnel

From: Traveler – W. Smith

Location: LuTulle Park- T/ACP

Time: 11:50

Message: Your name is T. Petty. You are a freelance photographer from Victoria. You heard about the accident at the power plant. You want to go into the evacuated area so you can take some firsthand pictures. You have to get started now, in order to meet the 6 p.m. deadline for the newspaper. You are not concerned about the effects of radiation as you have your own self-reading dosimeter.

ADDITIONAL NOTES TO SIMULATOR:

Using this outline, try to talk your way past the access control points. Don't say anything that might be interpreted as constituting a valid reason. Your purpose is to see if you can get in without having a good reason for entering. Go through both control point stations with the same story no matter if you are approved or denied entry into the evacuated area. If allowed entry at the first access control point, the team will provide you with a self-reading dosimeter (SRD) and fill out an Emergency Worker Radiation Exposure Record Form for you. Make up whatever answers are needed. Put the SRD aside before approaching the other control point station.

NOTE TO CONTROLLER:

T. Petty and car are not contaminated.

This is a drill!

To: Access Control Point Personnel

From: Traveler- D. Bice

Location: LeTulle Park- T/ACP

Time: 11:55 a.m.

Message: Your name is D. Bice. Arrive at the access control points from outside the affected area. You are on your way to Bay City. You want to go down Hwy. 1468 and drive by the plant. Then take Hwy. over to Hwy 60 and up to Bay City. You just want to get a look at the plant on your way to town. If the personnel at the access control points won't let you go, you can argue a bit, but you should be fairly easy to convince.

ADDITIONAL NOTE TO SIMULATOR:

Go through both control point stations with the same story no matter if you are approved or denied entry into the evacuated are. If allowed entry at the first access control point, the team will provide you with a self-reading dosimeter (SRD) and fill out an Emergency Worker Radiation Exposure Record Form for you. Make up whatever answers are needed. Put the SRD aside before approaching the other control point station.

NOTE TO CONTROLLER:

D. Bice and car are not contaminated.

This is a Drill!

To: Access Control Point Personnel

From: Local Resident – D. Dobbins

Location: LeTulle Park- T/ACP

Time: 12:00 p.m.

Message: You are D. Dobbins. You are going into the evacuated area. You are attempting to locate your grandfather who evacuated then returned home to get his pet cat. You haven't seen him and are worried.

ADDITIONAL NOTE TO SIMULATOR:

Go through both control point stations with the same story no matter if you are approved or denied entry into the evacuated area. If allowed entry at the first access control point, the team will provide you with a self-reading dosimeter (SRD) and fill out an Emergency Worker Radiation Exposure Record Form for you. Make up whatever answers are needed. Put the SRD aside before approaching the other control point station.

NOTE TO CONTROLLER: See attached data for personnel and vehicle contamination at the time of exit.

This is a drill!

Page 2

Contamination data for D. Dobbins

Initial monitoring levels:

0.05 mR/hr on the palm of right hand

0.10 mR/hr on the soles of shoes

0.05 mR/hr on the sides and tops of both shoes

0.03 mR/hr on socks and lower 4 inches of pants (if long pants are worn)

0.04 mR/hr on right side of pants where hand would touch

After removal of contaminated clothing:

Except for the contamination on their palm, all contamination was removed with clothing. The contamination on right palm will be removed with one washing.

This is a drill!

Contamination data for D. Dobbin's car:

Initial monitoring levels:

Outside:

0.08 mR/hr inside all four wheel wells
0.15 mR/hr at the grill and radiator
* .22 mR/hr at contact on the air filter (if hood is opened)
* .04 mR/hr above air filter on hood (if hood is not opened)
0.16 mR/hr at the end of exhaust pipe
0.04 mR/hr on the driver's side door handle
0.02 mR/hr general levels over the remainder of the car

* The only way to lower these levels is to remove the air filter.

Inside:

0.03 mR/hr on the floorboard in front of the driver's seat
0.01 mR/hr on the brake and accelerator pedals
0.02 mR/hr on the steering wheel

After initial decontamination:

Outside:

0.04 mR/hr inside front left wheel well
0.03 mR/hr inside other three wheel wells
0.01 mR/hr at the grill and radiator
0.09 mR/hr at the end of exhaust pipe
The remainder of outside is background

Inside:

Background at all locations

The second decontamination cycle will reduce all outside levels to background.

This is a drill!

To: Access Control Point Personnel

From: Traveler - S. Willis

Location: LeTulle Park - T/ACP

Time: 11:45

Message: Your name is S. Willis. You are a lawyer from Lake Jackson. You were just driving through when you heard about the accident at the power plant. You want to go into the evacuated area so you can determine firsthand the effects of radiation on the environment. You are not afraid of possible radiation exposure because you have read that tuning your car radio to the Emergency Broadcast Station (EBS) frequency will provide accident information. As long as you can still hear the EBS broadcasts, you believe that you will not be in personal danger.

ADDITIONAL NOTE TO SIMULATOR:

Go through both control point stations with same story no matter if you are approved or denied entry into the evacuated area. If allowed entry at the first access control point, the team will provide you with a self-reading dosimeter (SRD) and fill out an Emergency Worker Radiation Exposure Record Form for you. Make up whatever answers are needed. Put the SRD aside before approaching the other control point station.

NOTE TO CONTROLLER:

S. Willis and car are not contaminated

All Supplemental/Offsite Message Listing

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|--------------------------|
| STP Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|--------------------------------------|----------------|--------------------|----------------|---------------|---------------|--|--------|
| <i>ClassificationStatus: General</i> | | | | <i>Total:</i> | | <i>9</i> | |
| 10:15 | 1 | STP Facilities | Congressman | TDH | Info request | This is Silvia Stems, an aide to Senator Parker. I need to speak to someone with the Health Department. The Senator's district includes Colorado, Wharton, Lavaca, and Fayette Counties. He would like to know if there is expected to be any impact from the accident at the South Texas Plant on farmers and ranchers in the counties to the north and west of the plant? Also, does the State plan to test water, milk, and other foodstuffs in this area? | 458 |
| 11:00 | 2 | Elected Officials | Judge | TDH | Info request | This is Judge Jones in Edna. We have a number of local citizens who are calling to ask about radiation problems here in Jackson County because of this accident that they've had at the South Texas Plant. I need to know if there is any radiation threat to people here in Jackson County. And I also want to know if there are any precautions people here need to be taking with respect to water supplies, produce, meat, and milk. And the ranchers want to know if there is going to be any kind of quarantine regarding the movement of livestock out of the county. | 422 |
| 11:15 | 3 | Local | Business | TDH | Info request | May I speak to someone from the Health Department? This is Tex Critter, Foreman of the Ap Brahman Bull Ranch. Our ranch is just across the highway from the South Texas nuclear plant, near the intersection of FM 521 and FM 1468. We've got some trucks headed in from El Campo to transport some bulls to rodeos. Are the drivers in danger? Should they be stopped? What about our livestock? How do we protect the bulls? Can we get them evacuated? | 485 |
| 11:30 | 4 | County | Law Enforcemen | TDH | Info request | I need to talk to someone from the Health Department. This is Sgt. Clark with the Edna PD. We've got a semi with ,14,000 lbs. of onions here in town on US 59. The driver said he came from Midfield in Matagorda County on highway 111 about an hour and a half ago. He heard on the radio that there was an accident at the nuclear power plant and thinks he may be contaminated with radioactivity. I can't reach anyone in Matagorda County by phone and we need some guidance on how to handle the driver and the truck. | 466 |
| 12:00 | 5 | State | BRC | BRC | Info Transfer | You determine that due to the swampy terrain in some areas of Matagorda County, BRC field teams will need all-terrain vehicles to survey certain areas. You want true ATVs (Honda -Runner, etc.), not Jeeps or -wheel drive trucks. You would prefer vehicles that have a cargo bin or rack to carry equipment. ATVs need to be delivered to BRC Staging Area in Bay City. Matagorda County says they haven't got any of these vehicles. Request state assistance in obtaining ATVs from the Disaster District in Pierce. | 510 |

All Supplemental/Offsite Message Listing

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|--------------------------|
| STP Graded Exercise |
| Tuesday, August 10, 2004 |

| Time | Message Number | From Organization: | From Facility | Message To: | Message Type: | Message Text | Ref. # |
|-------|----------------|--------------------|---------------|-------------|---------------|--|--------|
| 12:00 | 6 | State | BRC | BRC | Info Transfer | SIMULATED FAX from BRC Chief of Field Operations at STPEGS EOF: We are having some difficulties communicating with local emergency facilities and field units. Request state provide ten 800 MHz portable radios and a transportable repeater for use by BRC field teams. Equipment should be delivered to the BRC Staging Area in Bay City. | 477 |
| 13:00 | 7 | State | BRC | EOC | Info Transfer | You determine that BRC field teams may have to monitor have limited landmarks. You foresee a need for additional handheld Global Positioning System (GPS) units at the BRC Staging Area in Bay City. The Disaster District in Pierce says they don't have anyone with GPS equipment. Contact BRC and request assistance in obtaining the GPS units. | 512 |
| 13:15 | 8 | State | BRC | BRC | Info Transfer | SIMULATED FAX from BRC Chief of Field Operations: We are going to need some signs to post at contaminated areas in the next day or so. We estimate that we need 2 dozen signs. We have tried to get them made locally, but the two local sign shops are fully booked and don't have the capability to do volume work. Request your assistance in having signs fabricated and delivered to the BRC Staging Area. The signs should be 2 ft. X 2 ft. of metal or plastic, with black print on yellow background. The signs should say: DANGER RADIATION CONTAMINATION AREA. KEEP OUT! Entry Requires Approval of Texas Department of Health Phone: 512/834-6688 -Please advise me of delivery information when you find a supplier. | 502 |
| 13:25 | 9 | Other | Business | TDH | Info request | I need to speak to someone from the Health Department right away. This is Gerry Smith with the Good Eats food distribution center in Brazoria. Can you tell me if meat and vegetables from the area around the South Texas plant in Matagorda County should be accepted at our distribution center or will some sort of embargo or quarantine be going into effect? | 453 |

THIS IS A DRILL

MSG NO. 1**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (News Media)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 8:15 A.M. (Local)**MESSAGE:** This is Kathy Burke from KAVU-TV in Victoria. I heard on the police scanner that there is something going on at the South Texas Nuclear Plant. Can you provide me with any details? Has there been an explosion? Is there a fire? Is anyone injured? Who can we talk to for a news story? Can we send a film crew to the plant?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 2**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (News Media)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 8:25 A.M. (Local)**MESSAGE:** This is Valerie Irving with the Victoria Advocate. I received a call from an employee onsite at the South Texas nuclear power plant. He stated that there had been a significant accident onsite. The employee didn't want to give his name. Is this true? What is the plant covering up? Were there terrorists involved in this? What can you tell me? What do the citizens need to know?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 3**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (News Media)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 8:32 A.M. (Local)**MESSAGE:** My husband works at the nuclear power plant. I heard there was an accident up there. I've not been able to get in touch with him through his cell phone. Have employees been evacuated? If so, where were they taken? Can you tell me if there were any injuries, what hospitals were they taken to? I just want to know what's going on over there!**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 4**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Matagorda County Constable's Office)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 8:41 A.M. (Local)**MESSAGE:** This is Billy Morales of the Matagorda County Constable's office. I have been asked to contact you concerning additional resources. We have local residents who are evacuating due to the accident at the South Texas nuclear facility. I'm anticipating heavy congestion on the local roads. Currently we need an additional 8 officers and vehicles but it looks like the demand for additional manpower will increase as the day progresses.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 5**TO:** Disaster District Sub2C (Ask for EOC) (979) 543-1134

SPECIAL INSTRUCTIONS:

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Citizen)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 8:48 A.M. (Local)

MESSAGE: Hello, my name is Clara Clark. I live about 6 miles west of Blessing, Texas. My friend Cheryl who lives near STP called me and said the sirens are going off in her area. What does this mean? She said they are telling people to evacuate. Do I need to evacuate? Where do I go? Will I get sick?

Phone Bank Instructions:

- a. If player reply is incomplete or unresponsive, ask for additional information.
- b. If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 6**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Mayor of El Campo)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 8:57 A.M. (Local)**MESSAGE:** This is Randy Collins, the Mayor of El Campo, Texas. We are experiencing an unusual amount of heavy traffic heading north on Highway 71. I have great concern that the traffic is coming from the area around the nuclear plant and I am afraid that the people, and their cars, may be spreading contamination throughout my town. I want to know who will assist us during the emergency and if I need to be concerned with the contamination that I suspect they are spreading in our area. I also do not have sufficient police officers to deal with this situation.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 7**TO:** Disaster District 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Matagorda Co. EOC)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 9:02 A.M. (Local)**MESSAGE:** This is Carol O'Donnell with the American Red Cross calling from the Matagorda County EOC. We just received a call from the Regional Manager of Wal-Mart offering bottled water, soda, and other bottled liquids for the first responders. What I need from you is some numbers. How many people do you need to supply with water or soda? I need to get the request back to the Wal-Mart manager within the next 30 minutes. If you tell me what is needed, they will deliver directly to your location.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 8**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Telephone Company)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 9:16 A.M. (Local)**MESSAGE:** This is Perry Paulis from the local telephone company. We are experiencing an unusually high volume of traffic over our telephone lines today. That, in conjunction with some technical problems that have occurred today, is causing our systems to overload. We understand that local cellular phone providers are also experiencing similar problems. We wanted to inform you that we are working to fix the problems, however you may experience some difficulty in placing outside calls. We recommend that if at all possible, you use additional communications to supplement your current capability.**Phone Bank Instructions**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 9**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Citizen)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 9:21 A.M. (Local)**MESSAGE:** This is Shirley Sansone and I'm calling for one of your troopers. Officer Joel Zimmerman, and his partner Richard Iverson, are stranded near the intersection of FM1162 and FM 1468. Their vehicle will not start and their radio communications are not working. I ran into them as I was leaving the area on horseback. They asked me to call your office and let you know that they are stranded out in the middle of nowhere.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 10**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Citizen)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 9:32 A.M. (Local)**MESSAGE:** I heard there has been an accident at the nuclear power plant in Matagorda County, does this mean that your Operators Licensing Section will be closed until the emergency is over? How am I supposed to get my license renewed? It expired yesterday!**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 11**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Organized Group)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 9:45 A.M. (Local).**MESSAGE:** This is Susan Bands, and I'm with PETA group. I understand that there was an accident at the nuclear power plant. So, I'm concerned about the animals in the area and what is being done to protect them. If you need help dealing with any animals I can provide you with a group of volunteers who can care for domesticated animals in their homes.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 12**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Victoria County Sheriff's Office)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 9:57 A.M. (Local)**MESSAGE:** This is Deputy Sheriff Doug Richmond with the Victoria County SO. We're supposed to transport a subject from Matagorda County to Victoria, that DPS picked up last night with warrants out of our county. We heard on the scanners that there has been some sort of incident out at the power plant. What is the status of roads leading into, and out of, Matagorda County? We'd like to know if it is safe for our unit to go into that area.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 13**TO:** Disaster District 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Brazoria County EMC)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 10:08 A.M. (Local)**MESSAGE:** This is Raymond Russell the Emergency Management Coordinator for Brazoria County. Our County judge asked me to call and find out if our county should have any serious concerns about the accident at STP in Matagorda County? Are we in any danger of fallout from the radioactive materials?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 14**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Federal Agency)**LOCATION:** Disaster District Sub 2C, Pierce**TIME:** 10:14 A.M. (Local)**MESSAGE:** This is Benjamin J. Hofstra, Jr. I am a ranger at Big Boggy National Wildlife Refuge, and we've received word that there's been an accident at the South Texas nuclear power plant. Is there any danger to the employees or visitors to the refuge? We have about 210 onsite. Can I get some assistance in case we have to evacuate these people? I would need personnel to go in on foot and on ATV's. Can you provide me with, no less, than five people?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 15**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Ganado Police Department)**LOCATION:** DISASTER DISTRICT Sub 2C, Pierce**TIME:** 10:20 A.M. (Local)**MESSAGE:** This is James Cooper with the Ganado PD. We want to keep radioactive contamination caused by the accident at the nuclear power plant from spreading into our area. Is there anything we should be doing to protect our citizens?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 16**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: DD-Sub 2C Exercise Controller**LOCATION:** DISASTER DISTRICT Sub 2C, Pierce**TIME:** 10:36 A.M. (Local)**MESSAGE:** **SIMULATED TLETS MESSAGE FROM MATAGORDA COUNTY SO**
Our Deputies are reporting a large number of protesters heading toward the South Texas nuclear power plant. They are carrying signs and are quite rowdy. They have completely blocked off FM 616 between Blessing and Markham. I would estimate there are at least 200 people. With everything else that is going on we do not have the manpower to handle this situation. We do not want the media to report this in the wrong light. We need personnel and equipment for crowd control ASAP.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 17**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Bay City Hospital)**LOCATION:** DISASTER DISTRICT Sub 2C, Pierce**TIME:** 10:42 A.M. (Local)**MESSAGE:** This is James Sheen with the Bay City Hospital. I need to speak with the representative from State Health Department. I have had calls from several concerned people wanting potassium iodide tablets. Is there a need for them at this time? What should I need to tell them? Can you send me some help? Does it look like we will need to evacuate? If we evacuate is this a limited evacuation or will we have to go beyond the 10-mile Emergency Planning Zone?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO: 18**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Federal Express Dispatch)**LOCATION:** DISASTER DISTRICT Sub 2C, Pierce**TIME:** 11:02 A.M. (Local)**MESSAGE:** This is Benjamin Pate, Dispatch Manager with Federal Express. I have been informed there has been an accident at the South Texas nuclear facility. I have 3 drivers in that area making deliveries. I have no way to reach them because their radio systems do not get a signal out there. How can we get word to them? I can give you their routes if necessary but I have no way of knowing exactly where they are at this point. What is going to be done?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 19**TO:** Disaster District Sub 2C (Ask for EOC) (979) 543-1134

SPECIAL INSTRUCTIONS:

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Local Rancher)**LOCATION:** DISASTER DISTRICT Sub 2C, Pierce**TIME:** 11:08 A.M. (Local)

MESSAGE: This is James Hill. I have a ranch in with over 500 head of cattle in Fort Bend County. What am I to do about the cattle I have in pasture about 3-miles north of the Matagorda/Fort Bend County line? How do you propose to move all of them for me? Ranching has been bad for the last several years. I do not intend to take a loss because of this incident. Who can I call at the facility to straighten this out? I knew when the facility was built that this would happen.

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 20**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (KUHF News)**LOCATION:** SOC, Austin**TIME:** 8:15 A.M. (Local)**MESSAGE:** Name is Aeries Williams with KUHF News out of Houston. I have received a report through law enforcement scanners that there has been an accident at the South Texas nuclear project. I am enroute to the facility as we speak to obtain a live interview with the incident commander. Could I get you to answer a few questions now? How many people have been injured or killed? Has there been a release of radiation into the environment? When did the accident occur? What caused the accident? How close can we get to the facility with our chopper? Will the Commander make time for us or has he already set a time for a general press conference?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 21**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (CNN Network)**LOCATION:** SOC, Austin**TIME:** 8:25 A.M. (Local)**MESSAGE:** This is Jonathan Howard with CNN Headline News. I understand there has been an accident at the South Texas Project Electric Generation Station. I need enough accurate information to setup a news segment for airing within the next half-hour.

I need the following information:

1. What caused the accident?
2. What is the extent of the damage?
3. Have there been any injuries, or fatalities, at the plant?
4. Has there been, or is there an anticipated, release of radioactive materials?

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 22**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Citizen)**LOCATION:** SOC, Austin**TIME:** 8:24 A.M. (Local)**MESSAGE:** This is Susan Bathe with the Texas Environmental Protection League. I want to know if this incident has anything to do with the leak of radioactive water last September? Has more water leaked again? How much uranium was released? What kind of danger are we in? That is why we protested the construction of this facility! Do we need to worry about the fish in Colorado River? Can I have the number of the NRC for questions?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 23**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (State Senator)**LOCATION:** SOC, Austin**TIME:** 8:54 A.M. (Local)

MESSAGE: My name is Clint Billings with State Senator Gonzales' office. The Senator would like to request information regarding the situation at Comanche Peak.

1. Was radiation leaked into the environment?
2. Do we have any casualties, if so how many?
3. Is evacuation of the area going to be necessary?
4. Do we know the cause of the accident?
5. Is there any reason to suspect terrorism?
6. Have all the proper authorities been notified?
7. Do we have enough law enforcement personnel to prevent any problems?

Please call me at home if anything else arises. The Senator would like to be kept apprised of the situation he may want to make a statement if the time is right. My cell phone is, 512.334.5567.

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 24**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Citizen)**LOCATION:** SOC, Austin**TIME:** 9:07 A.M. (Local)**MESSAGE:** I need some help. I just heard about the accident in Bay City. I live here in Houston but have a ranch not far from the South Texas Nuclear Power Plant. I am worried about my cattle. I do not have enough hands onsite to move them right now. Is there a chance they are contaminated with radiation? What do I need to do if they are contaminated?**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer;
provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 25**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Citizen)**LOCATION:** SOC**TIME:** 9:18 A.M. (Local)**MESSAGE:** This is Walter Weaver and I live in Bell County. I was about to leave for a few days vacation near Matagorda Bay. I just heard that the South Texas Project has experienced a problem and I was wondering if we should delay our vacation? My wife and 5 children have been very anxious to leave the house but I want to be absolutely positive that there is no chance of being in an area that could have radioactive fallout.

I tried to get information from the Matagorda Sheriffs Office and they referred me to the Matagorda County EOC Rumor Control. I called that number and they would not give me the information that I am trying to obtain, so I demanded to talk to someone at the State level and they provided me with your telephone number. I am tired of getting a run-around and I want some valid information.

I understand that the Matagorda Bay is outside the danger area but I would like to talk to someone from Fish and Wildlife who can tell me if it is safe and if there are any restrictions on fishing, or camping, in the area.

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 26**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Commercial Business)**LOCATION:** SOC, Austin**TIME:** 9:33 A.M. (Local)**MESSAGE:** This is Ted Cramer, I'm a dispatcher for the Union Pacific Railroad. We've been advised of the accident at the South Texas Project and we need to verify the extent of the contamination, if any, with regard to our tracks within the 10 mile EPZ. I was referred to your agency by the Texas Railroad Commission's secretary since the key members of their staff have relocated to your EOC. I need to talk to one of staff of the Texas Railroad Commission.

When did the accident happen? How much track is affected by this accident, and to what extent? Are the tracks contaminated? Is it possible that trains that passed through the area are contaminated? What about our train crews, especially the crew with a 37 car train which has mechanical problems and is stalled near Buckeye Road?

We have flagged all traffic through the EPZ tracks but we are very concerned how long this stoppage will last. Will we be able to use the section of track transversing the EPZ area for trains scheduled for the rest of today and for the rest of the week? Will the contamination cause damage to the tracks, and if so who will be responsible for cleaning the track area? What about trains that may be contaminated?

Who will compensate the Union Pacific Railroad for the damage to the tracks and the loss of revenue, and wages, caused by the interruption of our schedule?

If the crew with the stranded train is in any danger who will rescue them from their peril?

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 27**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (KHOU-TV, Houston)**LOCATION:** SOC, Austin**TIME:** 9:46 A.M. (Local)

MESSAGE: This is Richard Lewis of KHOU-TV in Houston. We understand there's been an accident at the South Texas Project. We are planning to interrupt our local programming in about an hour to inform our audience about the emergency situation near Bay City. What information can you provide? If we can get a film crew to Bay City can you arrange for live coverage at the Matagorda Emergency Operations Center and/or the Staging Area? This is a high priority story and we need to provide timely informational bulletins to our viewing audience. We may be asked by other news services to provide this coverage and we at Channel 31. I need accurate information on a timely basis in order to provide this coverage.

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 28**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Federal Agency)**LOCATION:** SOC**TIME:** 10:03 A.M. (Local)**MESSAGE:** This is Paula Ansler, the Postmaster in Matagorda. I was referred to your agency by the U.S. Postal Service. Do I need to have the mail that was in the accident areas decontaminated? Are my carriers going to be able to deliver the mail tomorrow? I called all of the carriers back today before they had a chance to finish their routes so they will have a double load tomorrow. Should I tell them to come in early to get a head-start? If they can't deliver tomorrow, when will they be able to?**Phone Bank Instructions:**

- If the player's reply is incomplete or unresponsive, ask for additional information.
- Explain that you will be leaving the area and will probably not have access to a phone so you must stay on the line to await a decision.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 29**TO:** STATE OPERATIONS CENTER (512) 424-2208

SPECIAL INSTRUCTIONS:

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Business)**LOCATION:** SOC, Austin**TIME:** 10:17 A.M. (Local)

MESSAGE: This is Randal Stewart with the Texas Cattleman's Association. Our members, located in Matagorda County, and in the counties surrounding the South Texas Project want to know if they can or should move their livestock.

What other precautions can these ranchers take to protect their livestock.

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 30**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Brazoria County SO)**LOCATION:** SOC, Austin**TIME:** 10:31 A.M. (Local)**MESSAGE:** **SIMULATED TLETS MESSAGE FROM SO BRAZORIA COUNTY**
We are getting calls from numerous jurisdictions in the area with questions about the vehicles traveling from the Bay City area through their towns. Is there any way these vehicles are contaminated? Were they tested in any way or washed before they left the area. We can set up checkpoints if necessary. Please advise.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 31**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Federal Agency)**LOCATION:** SOC, Austin**TIME:** 10:44 A.M. (Local)**MESSAGE:** This is John Hastings from FEMA Region VI. We have received notification of the accident at the South Texas Project Electric Generating Station (STPEGS). We are dispatching a representative of our staff, Mary Mossero, to facilitate any Federal support you may require. Her estimated travel time is approximately 3 hours. She will be flying to the Austin Airport and will drive from that location. Please direct any resource requests to my office until her arrival. Please assure the Governor of our desire to support you to the fullest extent possible.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 32**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (State Senator)**LOCATION:** SOC, Austin**TIME:** 10:56 A.M. (Local)**MESSAGE:** This is Clint Billings from Senator Garcia's office again. The Senator is concerned that he has not received any additional information. Can you please keep informed? Is it true that there was at least 1 casualty? Please forward details ASAP.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 33**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (DDC Pierce)**LOCATION:** SOC, Austin**TIME:** 11:13 A.M. (Local)**MESSAGE:** This is Lt. Spears DPS Pierce, I need to talk to Jack. We got a call from Col Tom Foster, the III Corps Chemical Officer, at Fort Hood who has asked if we need the assistance of their Chemical Battalion and two Chemical Companies. I wasn't sure if we could accept assistance from the Army, or not. I did inform the Matagorda County Emergency Management Coordinator of the contact and informed him that I was seeking clarification from your organization.**Phone Bank Instructions:**

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

THIS IS A DRILL

MSG NO. 34**TO:** STATE OPERATIONS CENTER (512) 424-2208**SPECIAL INSTRUCTIONS:**

- A. If your inject indicates you are supposed to be calling a specific agency ask for that agency. Read your inject.
- B. If your inject does not indicate it is for a specific agency, read your inject to whomever answers the phone.

FROM: Phone Bank (Matagorda County EMC)**LOCATION:** SOC, Austin**TIME:** 11:20 A.M. (Local)**MESSAGE:** This is the assistant to the Emergency Management Coordinator from the Matagorda County EOC. I need to speak with Ms. Mary Mossero of FEMA Region VI who is in your EOC working as a liaison for FEMA. Hello Mary: This is Mary Moses calling with information requested by Mr. John Hasting of your office. He requested the following information:

1. An Evacuation has begun in some parts of Matagorda County.
2. A Reception Center has been activated in Palacois.
3. County and local officials, and volunteers, have the incident well in hand.
4. We are in constant contact with STP Officials and have received all updates.
5. The Staging Area at the Bay City Convention Center has been activated.
6. The Media Center, located at the Best Western Motel, in Bay City, has been operating for at least 45 minutes.
7. There have been no injuries, or deaths, that we are aware of.

Please provide this information to Mr. Hasting as soon as possible. When your liaison arrives at our EOC, we will have them contact you as soon as possible.

Phone Bank Instructions:

- If player reply is incomplete or unresponsive, ask for additional information.
- If question can't be readily answered, ask player to call you back with answer; provide your (role) name and phone number so player can return the call.

PLAYER REPLY OR ACTION TAKEN:

4.8 RADIOLOGICAL INFORMATION

This exercise is based upon radiological conditions that occur in the plant when the Containment Supplementary Purge inboard valve MOV-005 fails open when isolation is initiated. Due to ongoing maintenance and electrical failures Safety Injection is limited to one train "C". A large break LOCA accrues and the single Safety Train fails to maintain Reactor Vessel Water Level and the core begins to uncover.

Core exit thermocouples exceed 1,200° F which produces clad damage of 100%. "B" Low Head Safety Injection is restored and Reactor Vessel Water Level begins to rise.

Eventually, Containment radiation levels increase to over 1,000 R/hr. Increased containment pressure causes the opening of the outboard Supplementary Purge Isolation Valve resulting in a breach of containment. RT-8012 and RT-8013 go into alarm indicating a radioactive release from containment through the Supplementary Purge line into the Unit Vent. RT-8010 soon goes into alarm indicating the Unit Vent is releasing radioactive material into the environment.

Section 4.8.1 provides Chemistry data, including Reactor Coolant Chemistry isotopic.

Section 4.8.3 provides in plant dose rate data for various elevations of plant structures. Due to the leak out of Supplementary Purge the area around the MAB 60' elevation outside the Containment Personnel Airlock will have the highest dose rate readings. Letdown piping will show normal values for the general area readings, and will isolate at approximately 8:20 AM when Safety Injection starts. Contact readings on the Containment wall will increase throughout the exercise for the EAB/MAB and FHB.

When the RWST is depleted and Safety Injection Pumps swap over to emergency Containment sumps general area and airborne radiation levels will increase in the basement of the FHB.

When the Containment release starts through the Supplementary Purge system that piping will have contact dose rates rapidly increase to about 13.5 R/hr. Repair teams sent to close Supplementary Purge valve FV-9777 will have to work in this 2.7 to 13.5 R/hr field.

Initial Offsite Protective Action Recommendation is to evacuate a five-mile radius; later Protective Action Guides are exceeded beyond five miles, which expands the Offsite Protective Action Recommendation to a five-mile radius and ten miles downwind.

Core Damage Calculations

| Isotopes | Time | | | | | | | | Half-Life (min) |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|
| | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 | 10:15 | 10:30 | |
| I-131 | 6.00E-04 | 2.12E+00 | 8.46E+00 | 2.96E+01 | 3.81E+01 | 4.23E+01 | 2.49E+03 | 1.14E+04 | 1.16E+04 |
| I-132 | 1.25E-04 | 3.28E-01 | 1.31E+00 | 4.59E+00 | 5.90E+00 | 6.55E+00 | 2.76E+03 | 1.22E+04 | 1.37E+02 |
| I-133 | 6.25E-04 | 4.82E-01 | 1.93E+00 | 6.74E+00 | 8.67E+00 | 9.63E+00 | 4.65E+03 | 2.12E+04 | 1.25E+03 |
| I-135 | 9.20E-04 | 6.30E-01 | 2.52E+00 | 8.82E+00 | 1.13E+01 | 1.26E+01 | 4.00E+03 | 1.81E+04 | 3.97E+02 |
| Kr-87 | 5.20E-04 | 2.61E-02 | 1.04E-01 | 3.65E-01 | 4.70E-01 | 5.22E-01 | 8.62E+02 | 3.74E+03 | 7.63E+01 |
| Xe-133 | 2.50E-02 | 1.08E+00 | 4.30E+00 | 1.51E+01 | 1.94E+01 | 2.15E+01 | 5.20E+03 | 2.38E+04 | 7.55E+03 |
| Xe-133m | 3.40E-04 | 1.06E-01 | 4.22E-01 | 1.48E+00 | 1.90E+00 | 2.11E+00 | 7.85E+02 | 3.61E+03 | 3.15E+03 |

| Corrected to dT (m) | 7:05 | | | | | | | |
|------------------------|----------|----------|----------|----------|----------|----------|----------|--|
| | 115.00 | 130.00 | 145.00 | 160.00 | 175.00 | 190.00 | 205.00 | |
| I-131 | 2.11E+00 | 8.39E+00 | 2.93E+01 | 3.77E+01 | 4.19E+01 | 2.46E+03 | 1.13E+04 | |
| I-132 | 1.83E-01 | 6.79E-01 | 2.20E+00 | 2.63E+00 | 2.70E+00 | 1.06E+03 | 4.33E+03 | |
| I-133 | 4.52E-01 | 1.80E+00 | 6.22E+00 | 7.94E+00 | 8.74E+00 | 4.19E+03 | 1.89E+04 | |
| I-135 | 5.15E-01 | 2.01E+00 | 6.85E+00 | 8.54E+00 | 9.28E+00 | 2.87E+03 | 1.26E+04 | |
| Kr-87 | 9.18E-03 | 3.19E-02 | 9.78E-02 | 1.10E-01 | 1.06E-01 | 1.53E+02 | 5.81E+02 | |
| Xe-133 | 1.07E+00 | 4.25E+00 | 1.49E+01 | 1.91E+01 | 2.12E+01 | 5.11E+03 | 2.34E+04 | |
| Xe-133m | 1.03E-01 | 4.10E-01 | 1.43E+00 | 1.83E+00 | 2.03E+00 | 7.53E+02 | 3.45E+03 | |

| | | | | | | |
|--------------------|-------|-------|-------|-------|---------|---------|
| Failed Fuel (Clad) | 0.50% | 2.00% | 3.40% | 3.50% | 100.00% | 100.00% |
| RCB H2 Conc | 0.05% | 0.22% | 0.40% | 0.40% | 11.75% | 11.75% |

RCS Volume Assumptions:

| | | |
|---------|---------|-----------|
| HZP | 571054 | lbm |
| density | 62.3 | lbm/cu ft |
| | 2.6E+08 | ml |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 7:00 |
| Real Time Period end | 7:44 |
| Drill Time | 0:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.40E-09 |
| Kr85 | 0.00E+00 |
| Kr87 | 5.20E-04 |
| Kr88 | 7.20E-04 |
| Xe131m | 0.00E+00 |
| Xe133 | 2.50E-02 |
| Xe133m | 3.40E-04 |
| Xe135 | 1.40E-03 |
| Xe135m | 5.00E-04 |
| Xe138 | 1.43E-03 |
| RCS Liquid | |
| F-18 | 1.20E-01 |
| Na-24 | 7.30E-04 |
| Cr-51 | 3.50E-05 |
| Mn-54 | 6.25E-05 |
| Co-58 | 2.40E-04 |
| Co-60 | 5.15E-05 |
| I131 | 6.00E-04 |
| I132 | 1.25E-04 |
| I133 | 6.25E-04 |
| I134 | 1.83E-03 |
| I135 | 9.20E-04 |
| Cs134 | 0.00E+00 |
| Cs135 | 0.00E+00 |
| Cs136 | 0.00E+00 |
| Cs137 | 0.00E+00 |
| Cs138 | 1.70E-03 |
| Rb87 | 0.00E+00 |
| Rb88 | 0.00E+00 |
| Total | 1.27E-01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 0.91 |
| pH | 6.56 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 2.46 |
| Boron (ppm) | 740 |
| Hydrogen (cc/kg) | 41 |
| Conductivity uS/cm | 25.6 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 7:45 |
| Real Time Period end | 7:59 |
| Drill Time | 0:45 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.40E-09 |
| Kr85 | 0.00E+00 |
| Kr87 | 5.20E-04 |
| Kr88 | 7.20E-04 |
| Xe131m | 0.00E+00 |
| Xe133 | 2.50E-02 |
| Xe133m | 3.40E-04 |
| Xe135 | 1.40E-03 |
| Xe135m | 5.00E-04 |
| Xe138 | 1.43E-03 |
| RCS Liquid | |
| F-18 | 1.20E-01 |
| Na-24 | 7.30E-04 |
| Cr-51 | 3.50E-05 |
| Mn-54 | 6.25E-05 |
| Co-58 | 2.40E-04 |
| Co-60 | 5.15E-05 |
| I131 | 6.00E-04 |
| I132 | 1.25E-04 |
| I133 | 6.25E-04 |
| I134 | 1.83E-03 |
| I135 | 9.20E-04 |
| Cs134 | 0.00E+00 |
| Cs135 | 0.00E+00 |
| Cs136 | 0.00E+00 |
| Cs137 | 0.00E+00 |
| Cs138 | 1.70E-03 |
| Rb87 | 0.00E+00 |
| Rb88 | 0.00E+00 |
| Total | 1.27E-01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.01 |
| pH | 6.49 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 2.34 |
| Boron (ppm) | 740 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 24.3 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 8:00 |
| Real Time Period end | 8:14 |
| Drill Time | 1:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.40E-09 |
| Kr85 | 0.00E+00 |
| Kr87 | 5.20E-04 |
| Kr88 | 7.20E-04 |
| Xe131m | 0.00E+00 |
| Xe133 | 2.50E-02 |
| Xe133m | 3.40E-04 |
| Xe135 | 1.40E-03 |
| Xe135m | 5.00E-04 |
| Xe138 | 1.43E-03 |
| RCS Liquid | |
| F-18 | 1.20E-01 |
| Na-24 | 7.30E-04 |
| Cr-51 | 3.50E-05 |
| Mn-54 | 6.25E-05 |
| Co-58 | 2.40E-04 |
| Co-60 | 5.15E-05 |
| I131 | 6.00E-04 |
| I132 | 1.25E-04 |
| I133 | 6.25E-04 |
| I134 | 1.83E-03 |
| I135 | 9.20E-04 |
| Cs134 | 0.00E+00 |
| Cs135 | 0.00E+00 |
| Cs136 | 0.00E+00 |
| Cs137 | 0.00E+00 |
| Cs138 | 1.70E-03 |
| Rb87 | 0.00E+00 |
| Rb88 | 0.00E+00 |
| Total | 1.27E-01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.11 |
| pH | 6.42 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 2.25 |
| Boron (ppm) | 740 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 23.2 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 8:15 |
| Real Time Period end | 8:29 |
| Drill Time | 1:15 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.40E-09 |
| Kr85 | 0.00E+00 |
| Kr87 | 5.20E-04 |
| Kr88 | 7.20E-04 |
| Xe131m | 0.00E+00 |
| Xe133 | 2.50E-02 |
| Xe133m | 3.40E-04 |
| Xe135 | 1.40E-03 |
| Xe135m | 5.00E-04 |
| Xe138 | 1.43E-03 |
| RCS Liquid | |
| F-18 | 1.20E-01 |
| Na-24 | 7.30E-04 |
| Cr-51 | 3.50E-05 |
| Mn-54 | 6.25E-05 |
| Co-58 | 2.40E-04 |
| Co-60 | 5.15E-05 |
| I131 | 6.00E-04 |
| I132 | 1.25E-04 |
| I133 | 6.25E-04 |
| I134 | 1.83E-03 |
| I135 | 9.20E-04 |
| Cs134 | 0.00E+00 |
| Cs135 | 0.00E+00 |
| Cs136 | 0.00E+00 |
| Cs137 | 0.00E+00 |
| Cs138 | 1.70E-03 |
| Rb87 | 0.00E+00 |
| Rb88 | 0.00E+00 |
| Total | 1.27E-01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.22 |
| pH | 6.34 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 2.1 |
| Boron (ppm) | 740 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 21.6 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 8:30 |
| Real Time Period end | 8:44 |
| Drill Time | 1:30 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.40E-09 |
| Kr85 | 0.00E+00 |
| Kr87 | 5.20E-04 |
| Kr88 | 7.20E-04 |
| Xe131m | 0.00E+00 |
| Xe133 | 2.50E-02 |
| Xe133m | 3.40E-04 |
| Xe135 | 1.40E-03 |
| Xe135m | 5.00E-04 |
| Xe138 | 1.43E-03 |
| RCS Liquid | |
| F-18 | 1.20E-01 |
| Na-24 | 7.30E-04 |
| Cr-51 | 3.50E-05 |
| Mn-54 | 6.25E-05 |
| Co-58 | 2.40E-04 |
| Co-60 | 5.15E-05 |
| I131 | 6.00E-04 |
| I132 | 1.25E-04 |
| I133 | 6.25E-04 |
| I134 | 1.83E-03 |
| I135 | 9.20E-04 |
| Cs134 | 0.00E+00 |
| Cs135 | 0.00E+00 |
| Cs136 | 0.00E+00 |
| Cs137 | 0.00E+00 |
| Cs138 | 1.70E-03 |
| Rb87 | 0.00E+00 |
| Rb88 | 0.00E+00 |
| Total | 1.27E-01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.34 |
| pH | 6.24 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 1.9 |
| Boron (ppm) | 740 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 19.5 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 8:45 |
| Real Time Period end | 8:59 |
| Drill Time | 1:45 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.40E-09 |
| Kr85 | 0.00E+00 |
| Kr87 | 5.20E-04 |
| Kr88 | 7.20E-04 |
| Xe131m | 0.00E+00 |
| Xe133 | 2.50E-02 |
| Xe133m | 3.40E-04 |
| Xe135 | 1.40E-03 |
| Xe135m | 5.00E-04 |
| Xe138 | 1.43E-03 |
| RCS Liquid | |
| F-18 | 1.20E-01 |
| Na-24 | 7.30E-04 |
| Cr-51 | 3.50E-05 |
| Mn-54 | 6.25E-05 |
| Co-58 | 2.40E-04 |
| Co-60 | 5.15E-05 |
| I131 | 6.00E-04 |
| I132 | 1.25E-04 |
| I133 | 6.25E-04 |
| I134 | 1.83E-03 |
| I135 | 9.20E-04 |
| Cs134 | 0.00E+00 |
| Cs135 | 0.00E+00 |
| Cs136 | 0.00E+00 |
| Cs137 | 0.00E+00 |
| Cs138 | 1.70E-03 |
| Rb87 | 0.00E+00 |
| Rb88 | 0.00E+00 |
| Total | 1.27E-01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.47 |
| pH | 6.14 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 1.7 |
| Boron (ppm) | 740 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 17.5 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 9:00 |
| Real Time Period end | 9:14 |
| Drill Time | 2:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 2.14E-02 |
| Kr85 | 2.63E-03 |
| Kr87 | 2.61E-02 |
| Kr88 | 5.62E-02 |
| Xe131m | 5.40E-03 |
| Xe133 | 1.08E+00 |
| Xe133m | 1.06E-01 |
| Xe135 | 4.56E-01 |
| Xe135m | 3.23E-01 |
| Xe138 | 1.33E+00 |
| RCS Liquid | |
| F-18 | 5.46E-02 |
| Na-24 | 8.89E-07 |
| Cr-51 | 1.77E-08 |
| Mn-54 | 3.13E-08 |
| Co-58 | 1.25E-07 |
| Co-60 | 3.25E-08 |
| I131 | 2.12E+00 |
| I132 | 3.28E-01 |
| I133 | 4.82E-01 |
| I134 | 9.61E+00 |
| I135 | 6.30E-01 |
| Cs134 | 2.55E-01 |
| Cs135 | 5.83E-09 |
| Cs136 | 3.55E-01 |
| Cs137 | 1.60E-01 |
| Cs138 | 4.90E-02 |
| Rb87 | 1.95E-13 |
| Rb88 | 4.65E-01 |
| Total | 1.45E+01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.62 |
| pH | 6.03 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 1.5 |
| Boron (ppm) | 1311 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 15.4 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 9:15 |
| Real Time Period end | 9:29 |
| Drill Time | 2:15 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 8.54E-02 |
| Kr85 | 1.05E-02 |
| Kr87 | 1.04E-01 |
| Kr88 | 2.25E-01 |
| Xe131m | 2.16E-02 |
| Xe133 | 4.30E+00 |
| Xe133m | 4.22E-01 |
| Xe135 | 1.82E+00 |
| Xe135m | 1.29E+00 |
| Xe138 | 5.33E+00 |
| RCS Liquid | |
| F-18 | 3.33E-02 |
| Na-24 | 1.14E-06 |
| Cr-51 | 2.22E-08 |
| Mn-54 | 4.00E-08 |
| Co-58 | 1.55E-07 |
| Co-60 | 4.08E-08 |
| I131 | 8.46E+00 |
| I132 | 1.31E+00 |
| I133 | 1.93E+00 |
| I134 | 3.85E+01 |
| I135 | 2.52E+00 |
| Cs134 | 1.02E+00 |
| Cs135 | 2.33E-08 |
| Cs136 | 1.42E+00 |
| Cs137 | 6.40E-01 |
| Cs138 | 1.96E-01 |
| Rb87 | 7.79E-13 |
| Rb88 | 1.86E+00 |
| Total | 5.78E+01 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.78 |
| pH | 5.91 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 1.3 |
| Boron (ppm) | 1389 |
| Hydrogen (cc/kg) | 39 |
| Conductivity uS/cm | 13.5 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 9:30 |
| Real Time Period end | 9:44 |
| Drill Time | 2:30 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 2.99E-01 |
| Kr85 | 3.69E-02 |
| Kr87 | 3.65E-01 |
| Kr88 | 7.87E-01 |
| Xe131m | 7.56E-02 |
| Xe133 | 1.51E+01 |
| Xe133m | 1.48E+00 |
| Xe135 | 6.38E+00 |
| Xe135m | 4.52E+00 |
| Xe138 | 1.86E+01 |
| RCS Liquid | |
| F-18 | 3.63E-02 |
| Na-24 | 1.82E-06 |
| Cr-51 | 3.53E-08 |
| Mn-54 | 5.93E-08 |
| Co-58 | 2.41E-07 |
| Co-60 | 5.93E-08 |
| I131 | 2.96E+01 |
| I132 | 4.59E+00 |
| I133 | 6.74E+00 |
| I134 | 1.35E+02 |
| I135 | 8.82E+00 |
| Cs134 | 3.57E+00 |
| Cs135 | 8.16E-08 |
| Cs136 | 4.97E+00 |
| Cs137 | 2.24E+00 |
| Cs138 | 6.86E-01 |
| Rb87 | 2.73E-12 |
| Rb88 | 6.51E+00 |
| Total | 2.02E+02 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.96 |
| pH | 5.74 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 1 |
| Boron (ppm) | 1473 |
| Hydrogen (cc/kg) | 36 |
| Conductivity uS/cm | 10.6 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 9:45 |
| Real Time Period end | 9:59 |
| Drill Time | 2:45 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 3.84E-01 |
| Kr85 | 4.74E-02 |
| Kr87 | 4.70E-01 |
| Kr88 | 1.01E+00 |
| Xe131m | 9.72E-02 |
| Xe133 | 1.94E+01 |
| Xe133m | 1.90E+00 |
| Xe135 | 8.20E+00 |
| Xe135m | 5.81E+00 |
| Xe138 | 2.40E+01 |
| RCS Liquid | |
| F-18 | 3.64E-02 |
| Na-24 | 1.82E-06 |
| Cr-51 | 3.14E-08 |
| Mn-54 | 5.91E-08 |
| Co-58 | 2.58E-07 |
| Co-60 | 5.81E-08 |
| I131 | 3.81E+01 |
| I132 | 5.90E+00 |
| I133 | 8.67E+00 |
| I134 | 1.73E+02 |
| I135 | 1.13E+01 |
| Cs134 | 4.59E+00 |
| Cs135 | 1.05E-07 |
| Cs136 | 6.39E+00 |
| Cs137 | 2.88E+00 |
| Cs138 | 8.82E-01 |
| Rb87 | 3.51E-12 |
| Rb88 | 8.37E+00 |
| Total | 2.60E+02 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.68 |
| pH | 4.9 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.3 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 21 |
| Conductivity uS/cm | 7.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 10:00 |
| Real Time Period end | 10:14 |
| Drill Time | 3:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 2.30E-02 |
| Kr85m | 4.27E-01 |
| Kr85 | 5.27E-02 |
| Kr87 | 5.22E-01 |
| Kr88 | 1.12E+00 |
| Xe131m | 1.08E-01 |
| Xe133 | 2.15E+01 |
| Xe133m | 2.11E+00 |
| Xe135 | 9.11E+00 |
| Xe135m | 6.45E+00 |
| Xe138 | 2.66E+01 |
| RCS Liquid | |
| F-18 | 2.20E-01 |
| Na-24 | 1.57E-05 |
| Cr-51 | 3.29E-07 |
| Mn-54 | 5.83E-07 |
| Co-58 | 2.33E-06 |
| Co-60 | 5.84E-07 |
| I131 | 4.23E+01 |
| I132 | 6.55E+00 |
| I133 | 9.63E+00 |
| I134 | 1.92E+02 |
| I135 | 1.26E+01 |
| Cs134 | 5.10E+00 |
| Cs135 | 1.17E-07 |
| Cs136 | 7.10E+00 |
| Cs137 | 3.20E+00 |
| Cs138 | 9.80E-01 |
| Rb87 | 3.90E-12 |
| Rb88 | 9.30E+00 |
| Total | 2.89E+02 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.62 |
| pH | 4.9 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.3 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 6 |
| Conductivity uS/cm | 7.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 10:15 |
| Real Time Period end | 10:29 |
| Drill Time | 3:15 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 1.12E-04 |
| Kr85m | 6.11E+02 |
| Kr85 | 8.17E+01 |
| Kr87 | 8.62E+02 |
| Kr88 | 1.51E+03 |
| Xe131m | 1.75E+01 |
| Xe133 | 5.20E+03 |
| Xe133m | 7.85E+02 |
| Xe135 | 1.58E+03 |
| Xe135m | 7.19E+02 |
| Xe138 | 8.62E+02 |
| RCS Liquid | |
| F-18 | 2.00E-01 |
| Na-24 | 3.29E-06 |
| Cr-51 | 7.00E-08 |
| Mn-54 | 1.24E-07 |
| Co-58 | 4.94E-07 |
| Co-60 | 1.24E-07 |
| I131 | 2.49E+03 |
| I132 | 2.76E+03 |
| I133 | 4.65E+03 |
| I134 | 3.22E+03 |
| I135 | 4.00E+03 |
| Cs134 | 1.87E+02 |
| Cs135 | 3.76E-08 |
| Cs136 | 2.12E+01 |
| Cs137 | 3.35E+01 |
| Cs138 | 8.08E+02 |
| Rb87 | 1.19E-12 |
| Rb88 | 1.17E+03 |
| Total | 1.93E+04 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.56 |
| pH | 4.88 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.28 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 7.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 10:30 |
| Real Time Period end | 10:44 |
| Drill Time | 3:30 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 6.00E-04 |
| Kr85m | 2.75E+03 |
| Kr85 | 3.74E+02 |
| Kr87 | 3.74E+03 |
| Kr88 | 6.74E+03 |
| Xe131m | 8.00E+01 |
| Xe133 | 2.38E+04 |
| Xe133m | 3.61E+03 |
| Xe135 | 7.29E+03 |
| Xe135m | 3.23E+03 |
| Xe138 | 3.76E+03 |
| RCS Liquid | |
| F-18 | 1.82E-01 |
| Na-24 | 1.24E-05 |
| Cr-51 | 2.67E-07 |
| Mn-54 | 4.73E-07 |
| Co-58 | 1.89E-06 |
| Co-60 | 4.73E-07 |
| I131 | 1.14E+04 |
| I132 | 1.22E+04 |
| I133 | 2.12E+04 |
| I134 | 1.38E+04 |
| I135 | 1.81E+04 |
| Cs134 | 8.56E+02 |
| Cs135 | 2.01E-07 |
| Cs136 | 9.71E+01 |
| Cs137 | 1.53E+02 |
| Cs138 | 3.28E+03 |
| Rb87 | 6.06E-12 |
| Rb88 | 5.32E+03 |
| Total | 8.64E+04 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.87 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.27 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 7.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 10:45 |
| Real Time Period end | 10:59 |
| Drill Time | 3:45 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 1.09E-03 |
| Kr85m | 7.81E+02 |
| Kr85 | 1.02E+02 |
| Kr87 | 1.20E+03 |
| Kr88 | 1.97E+03 |
| Xe131m | 2.18E+01 |
| Xe133 | 6.49E+03 |
| Xe133m | 9.69E+02 |
| Xe135 | 1.94E+03 |
| Xe135m | 1.00E+03 |
| Xe138 | 2.25E+03 |
| RCS Liquid | |
| F-18 | 1.66E-01 |
| Na-24 | 1.52E-06 |
| Cr-51 | 3.31E-08 |
| Mn-54 | 5.87E-08 |
| Co-58 | 2.34E-07 |
| Co-60 | 5.87E-08 |
| I131 | 3.11E+03 |
| I132 | 3.63E+03 |
| I133 | 5.83E+03 |
| I134 | 4.74E+03 |
| I135 | 5.08E+03 |
| Cs134 | 2.33E+02 |
| Cs135 | 3.73E-08 |
| Cs136 | 2.65E+01 |
| Cs137 | 4.17E+01 |
| Cs138 | 7.42E+02 |
| Rb87 | 1.11E-12 |
| Rb88 | 1.03E+03 |
| Total | 2.45E+04 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.87 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.27 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 7.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 11:00 |
| Real Time Period end | 11:14 |
| Drill Time | 4:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 9.89E-04 |
| Kr85m | 5.32E+03 |
| Kr85 | 6.64E+02 |
| Kr87 | 8.88E+03 |
| Kr88 | 1.37E+04 |
| Xe131m | 1.42E+02 |
| Xe133 | 4.24E+04 |
| Xe133m | 6.19E+03 |
| Xe135 | 1.23E+04 |
| Xe135m | 7.07E+03 |
| Xe138 | 1.87E+04 |
| RCS Liquid | |
| F-18 | 1.51E-01 |
| Na-24 | 1.87E-07 |
| Cr-51 | 4.11E-09 |
| Mn-54 | 7.28E-09 |
| Co-58 | 2.90E-08 |
| Co-60 | 7.28E-09 |
| I131 | 2.08E+03 |
| I132 | 2.64E+03 |
| I133 | 3.94E+03 |
| I134 | 3.83E+03 |
| I135 | 3.50E+03 |
| Cs134 | 1.56E+02 |
| Cs135 | 1.12E-08 |
| Cs136 | 1.77E+01 |
| Cs137 | 2.79E+01 |
| Cs138 | 4.78E+02 |
| Rb87 | 3.76E-13 |
| Rb88 | 4.82E+02 |
| Total | 1.72E+04 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.85 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.25 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 7.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 11:15 |
| Real Time Period end | 11:29 |
| Drill Time | 4:15 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 9.00E-04 |
| Kr85m | 7.59E+03 |
| Kr85 | 9.45E+02 |
| Kr87 | 1.27E+04 |
| Kr88 | 1.96E+04 |
| Xe131m | 2.02E+02 |
| Xe133 | 6.03E+04 |
| Xe133m | 8.80E+03 |
| Xe135 | 1.75E+04 |
| Xe135m | 1.01E+04 |
| Xe138 | 2.69E+04 |
| RCS Liquid | |
| F-18 | 1.37E-01 |
| Na-24 | 1.85E-07 |
| Cr-51 | 8.48E-05 |
| Mn-54 | 1.51E-04 |
| Co-58 | 6.00E-04 |
| Co-60 | 1.51E-04 |
| I131 | 8.72E+04 |
| I132 | 1.14E+05 |
| I133 | 1.66E+05 |
| I134 | 1.69E+05 |
| I135 | 1.48E+05 |
| Cs134 | 6.54E+03 |
| Cs135 | 2.71E-07 |
| Cs136 | 7.43E+02 |
| Cs137 | 1.17E+03 |
| Cs138 | 2.04E+04 |
| Rb87 | 1.07E-11 |
| Rb88 | 1.78E+04 |
| Total | 7.30E+05 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.84 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.23 |
| Boron (ppm) | 2188 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 7.8 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 11:30 |
| Real Time Period end | 11:44 |
| Drill Time | 4:30 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 8.18E-04 |
| Kr85m | 9.86E+03 |
| Kr85 | 1.23E+03 |
| Kr87 | 1.66E+04 |
| Kr88 | 2.55E+04 |
| Xe131m | 2.62E+02 |
| Xe133 | 7.82E+04 |
| Xe133m | 1.14E+04 |
| Xe135 | 2.27E+04 |
| Xe135m | 1.31E+04 |
| Xe138 | 3.52E+04 |
| RCS Liquid | |
| F-18 | 1.25E-01 |
| Na-24 | 1.83E-07 |
| Cr-51 | 5.39E-04 |
| Mn-54 | 9.57E-04 |
| Co-58 | 3.81E-03 |
| Co-60 | 9.58E-04 |
| I131 | 3.74E+04 |
| I132 | 4.77E+04 |
| I133 | 7.10E+04 |
| I134 | 6.85E+04 |
| I135 | 6.32E+04 |
| Cs134 | 2.81E+03 |
| Cs135 | 1.76E-07 |
| Cs136 | 3.19E+02 |
| Cs137 | 5.02E+02 |
| Cs138 | 1.06E+04 |
| Rb87 | 6.67E-12 |
| Rb88 | 1.01E+04 |
| Total | 3.12E+05 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.78 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.21 |
| Boron (ppm) | 2276 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 8.3 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 11:45 |
| Real Time Period end | 11:59 |
| Drill Time | 4:45 |
| Concentration (uCl/cc) | |
| RCS Gases | |
| Ar41 | 7.44E-04 |
| Kr85m | 5.71E+03 |
| Kr85 | 7.08E+02 |
| Kr87 | 9.70E+03 |
| Kr88 | 1.48E+04 |
| Xe131m | 1.51E+02 |
| Xe133 | 4.52E+04 |
| Xe133m | 6.58E+03 |
| Xe135 | 1.31E+04 |
| Xe135m | 7.75E+03 |
| Xe138 | 2.23E+04 |
| RCS Liquid | |
| F-18 | 1.14E-01 |
| Na-24 | 1.80E-07 |
| Cr-51 | 9.93E-04 |
| Mn-54 | 1.76E-03 |
| Co-58 | 7.03E-03 |
| Co-60 | 1.76E-03 |
| I131 | 2.16E+04 |
| I132 | 2.77E+04 |
| I133 | 4.10E+04 |
| I134 | 4.04E+04 |
| I135 | 3.65E+04 |
| Cs134 | 1.62E+03 |
| Cs135 | 9.14E-08 |
| Cs136 | 1.84E+02 |
| Cs137 | 2.90E+02 |
| Cs138 | 5.37E+03 |
| Rb87 | 3.43E-12 |
| Rb88 | 5.11E+03 |
| Total | 1.80E+05 |
| Chemical Parameters | |
| Tritium (uCl/cc) | 1.5 |
| pH | 4.64 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.2 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.7 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 12:00 |
| Real Time Period end | 12:14 |
| Drill Time | 5:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 6.76E-04 |
| Kr85m | 5.22E+03 |
| Kr85 | 6.43E+02 |
| Kr87 | 8.95E+03 |
| Kr88 | 1.35E+04 |
| Xe131m | 1.38E+02 |
| Xe133 | 4.11E+04 |
| Xe133m | 5.97E+03 |
| Xe135 | 1.18E+04 |
| Xe135m | 7.16E+03 |
| Xe138 | 2.16E+04 |
| RCS Liquid | |
| F-18 | 1.03E-01 |
| Na-24 | 1.78E-07 |
| Cr-51 | 6.30E-03 |
| Mn-54 | 1.12E-02 |
| Co-58 | 4.46E-02 |
| Co-60 | 1.12E-02 |
| I131 | 1.96E+04 |
| I132 | 2.54E+04 |
| I133 | 3.73E+04 |
| I134 | 3.75E+04 |
| I135 | 3.33E+04 |
| Cs134 | 1.47E+03 |
| Cs135 | 7.05E-08 |
| Cs136 | 1.67E+02 |
| Cs137 | 2.64E+02 |
| Cs138 | 4.59E+03 |
| Rb87 | 2.69E-12 |
| Rb88 | 4.20E+03 |
| Total | 1.64E+05 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 12:15 |
| Real Time Period end | 12:29 |
| Drill Time | 5:15 |
| Concentration (uCl/cc) | |
| RCS Gases | |
| Ar41 | 6.15E-04 |
| Kr85m | 5.16E+03 |
| Kr85 | 6.35E+02 |
| Kr87 | 8.87E+03 |
| Kr88 | 1.34E+04 |
| Xe131m | 1.36E+02 |
| Xe133 | 4.05E+04 |
| Xe133m | 5.89E+03 |
| Xe135 | 1.17E+04 |
| Xe135m | 7.10E+03 |
| Xe138 | 2.15E+04 |
| RCS Liquid | |
| F-18 | 9.40E-02 |
| Na-24 | 1.76E-07 |
| Cr-51 | 1.16E-02 |
| Mn-54 | 2.06E-02 |
| Co-58 | 8.22E-02 |
| Co-60 | 2.06E-02 |
| I131 | 1.94E+04 |
| I132 | 2.52E+04 |
| I133 | 3.68E+04 |
| I134 | 3.72E+04 |
| I135 | 3.29E+04 |
| Cs134 | 1.46E+03 |
| Cs135 | 6.66E-08 |
| Cs136 | 1.65E+02 |
| Cs137 | 2.60E+02 |
| Cs138 | 4.51E+03 |
| Rb87 | 2.56E-12 |
| Rb88 | 4.07E+03 |
| Total | 1.62E+05 |
| Chemical Parameters | |
| Tritium (uCl/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 12:30 |
| Real Time Period end | 12:44 |
| Drill Time | 5:30 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 5.59E-04 |
| Kr85m | 5.15E+03 |
| Kr85 | 6.34E+02 |
| Kr87 | 8.87E+03 |
| Kr88 | 1.34E+04 |
| Xe131m | 1.36E+02 |
| Xe133 | 4.05E+04 |
| Xe133m | 5.88E+03 |
| Xe135 | 1.17E+04 |
| Xe135m | 7.09E+03 |
| Xe138 | 2.15E+04 |
| RCS Liquid | |
| F-18 | 8.55E-02 |
| Na-24 | 1.74E-07 |
| Cr-51 | 7.35E-02 |
| Mn-54 | 1.31E-01 |
| Co-58 | 5.21E-01 |
| Co-60 | 1.31E-01 |
| I131 | 1.94E+04 |
| I132 | 2.51E+04 |
| I133 | 3.68E+04 |
| I134 | 3.72E+04 |
| I135 | 3.29E+04 |
| Cs134 | 1.45E+03 |
| Cs135 | 6.60E-08 |
| Cs136 | 1.65E+02 |
| Cs137 | 2.60E+02 |
| Cs138 | 4.50E+03 |
| Rb87 | 2.54E-12 |
| Rb88 | 4.05E+03 |
| Total | 1.62E+05 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 12:45 |
| Real Time Period end | 12:59 |
| Drill Time | 5:45 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 5.08E-04 |
| Kr85m | 5.15E+03 |
| Kr85 | 6.34E+02 |
| Kr87 | 8.86E+03 |
| Kr88 | 1.34E+04 |
| Xe131m | 1.36E+02 |
| Xe133 | 4.05E+04 |
| Xe133m | 5.88E+03 |
| Xe135 | 1.17E+04 |
| Xe135m | 7.09E+03 |
| Xe138 | 2.15E+04 |
| RCS Liquid | |
| F-18 | 7.78E-02 |
| Na-24 | 1.72E-07 |
| Cr-51 | 1.35E-01 |
| Mn-54 | 2.41E-01 |
| Co-58 | 9.59E-01 |
| Co-60 | 2.41E-01 |
| I131 | 1.94E+04 |
| I132 | 2.51E+04 |
| I133 | 3.68E+04 |
| I134 | 3.72E+04 |
| I135 | 3.29E+04 |
| Cs134 | 1.45E+03 |
| Cs135 | 6.59E-08 |
| Cs136 | 1.65E+02 |
| Cs137 | 2.60E+02 |
| Cs138 | 4.50E+03 |
| Rb87 | 2.54E-12 |
| Rb88 | 4.05E+03 |
| Total | 1.62E+05 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 13:00 |
| Real Time Period end | 13:14 |
| Drill Time | 6:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 4.62E-04 |
| Kr85m | 5.15E+03 |
| Kr85 | 6.34E+02 |
| Kr87 | 8.86E+03 |
| Kr88 | 1.34E+04 |
| Xe131m | 1.36E+02 |
| Xe133 | 4.05E+04 |
| Xe133m | 5.88E+03 |
| Xe135 | 1.17E+04 |
| Xe135m | 7.09E+03 |
| Xe138 | 2.15E+04 |
| RCS Liquid | |
| F-18 | 7.08E-02 |
| Na-24 | 1.70E-07 |
| Cr-51 | 4.16E-01 |
| Mn-54 | 7.40E-01 |
| Co-58 | 2.95E+00 |
| Co-60 | 7.40E-01 |
| I131 | 1.94E+04 |
| I132 | 2.51E+04 |
| I133 | 3.68E+04 |
| I134 | 3.72E+04 |
| I135 | 3.29E+04 |
| Cs134 | 1.45E+03 |
| Cs135 | 6.59E-08 |
| Cs136 | 1.65E+02 |
| Cs137 | 2.60E+02 |
| Cs138 | 4.50E+03 |
| Rb87 | 2.54E-12 |
| Rb88 | 4.05E+03 |
| Total | 1.62E+05 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 13:15 |
| Real Time Period end | 13:29 |
| Drill Time | 6:15 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 4.20E-04 |
| Kr85m | 2.54E+03 |
| Kr85 | 3.16E+02 |
| Kr87 | 4.22E+03 |
| Kr88 | 6.53E+03 |
| Xe131m | 6.77E+01 |
| Xe133 | 2.02E+04 |
| Xe133m | 2.95E+03 |
| Xe135 | 5.86E+03 |
| Xe135m | 3.33E+03 |
| Xe138 | 8.39E+03 |
| RCS Liquid | |
| F-18 | 6.44E-02 |
| Na-24 | 1.68E-07 |
| Cr-51 | 6.96E-01 |
| Mn-54 | 1.24E+00 |
| Co-58 | 4.93E+00 |
| Co-60 | 1.24E+00 |
| I131 | 9.65E+03 |
| I132 | 1.22E+04 |
| I133 | 1.83E+04 |
| I134 | 1.74E+04 |
| I135 | 1.63E+04 |
| Cs134 | 7.25E+02 |
| Cs135 | 4.95E-08 |
| Cs136 | 8.23E+01 |
| Cs137 | 1.30E+02 |
| Cs138 | 2.98E+03 |
| Rb87 | 1.87E-12 |
| Rb88 | 2.83E+03 |
| Total | 8.06E+04 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | | |
|-------------------------------|----------|----------|
| Real Time period start | 13:30 | 13:45 |
| Real Time Period end | 13:44 | 13:59 |
| Drill Time | 6:30 | 6:45 |
| Concentration (uCl/cc) | | |
| RCS Gases | | |
| Ar41 | 3.82E-04 | 3.47E-04 |
| Kr85m | 3.03E+02 | 3.61E+01 |
| Kr85 | 3.92E+01 | 4.87E+00 |
| Kr87 | 4.57E+02 | 4.95E+01 |
| Kr88 | 7.63E+02 | 8.90E+01 |
| Xe131m | 8.40E+00 | 1.04E+00 |
| Xe133 | 2.50E+03 | 3.10E+02 |
| Xe133m | 3.72E+02 | 4.69E+01 |
| Xe135 | 7.46E+02 | 9.46E+01 |
| Xe135m | 3.60E+02 | 4.09E+01 |
| Xe138 | 4.98E+02 | 2.96E+01 |
| RCS Liquid¹ | | |
| F-18 | 5.86E-02 | 5.33E-02 |
| Na-24 | 1.66E-07 | 1.65E-07 |
| Cr-51 | 6.96E-01 | 6.96E-01 |
| Mn-54 | 1.24E+00 | 1.24E+00 |
| Co-58 | 4.93E+00 | 4.93E+00 |
| Co-60 | 1.24E+00 | 1.24E+00 |
| I131 | 1.20E+03 | 1.48E+02 |
| I132 | 1.41E+03 | 1.62E+02 |
| I133 | 2.25E+03 | 2.77E+02 |
| I134 | 1.77E+03 | 1.80E+02 |
| I135 | 1.96E+03 | 2.37E+02 |
| Cs134 | 8.99E+01 | 1.12E+01 |
| Cs135 | 1.24E-08 | 2.34E-09 |
| Cs136 | 1.02E+01 | 1.27E+00 |
| Cs137 | 1.61E+01 | 2.00E+00 |
| Cs138 | 4.67E+02 | 5.38E+01 |
| Rb87 | 4.39E-13 | 7.68E-14 |
| Rb88 | 5.43E+02 | 7.80E+01 |
| Total | 9.72E+03 | 1.16E+03 |
| Chemical Parameters | | |
| Tritium (uCl/cc) | 1.5 | 1.5 |
| pH | 4.61 | 4.61 |
| Fluoride (ppm) | 0.003 | 0.003 |
| Chloride (ppm) | 0.004 | 0.004 |
| Sulfate (ppm) | 0.007 | 0.007 |
| D.O. (ppm) | <0.002 | <0.002 |
| Lithium (ppm) | 0.17 | 0.17 |
| Boron (ppm) | 2676 | 2676 |
| Hydrogen (cc/kg) | 0 | 0 |
| Conductivity uS/cm | 10.9 | 10.9 |

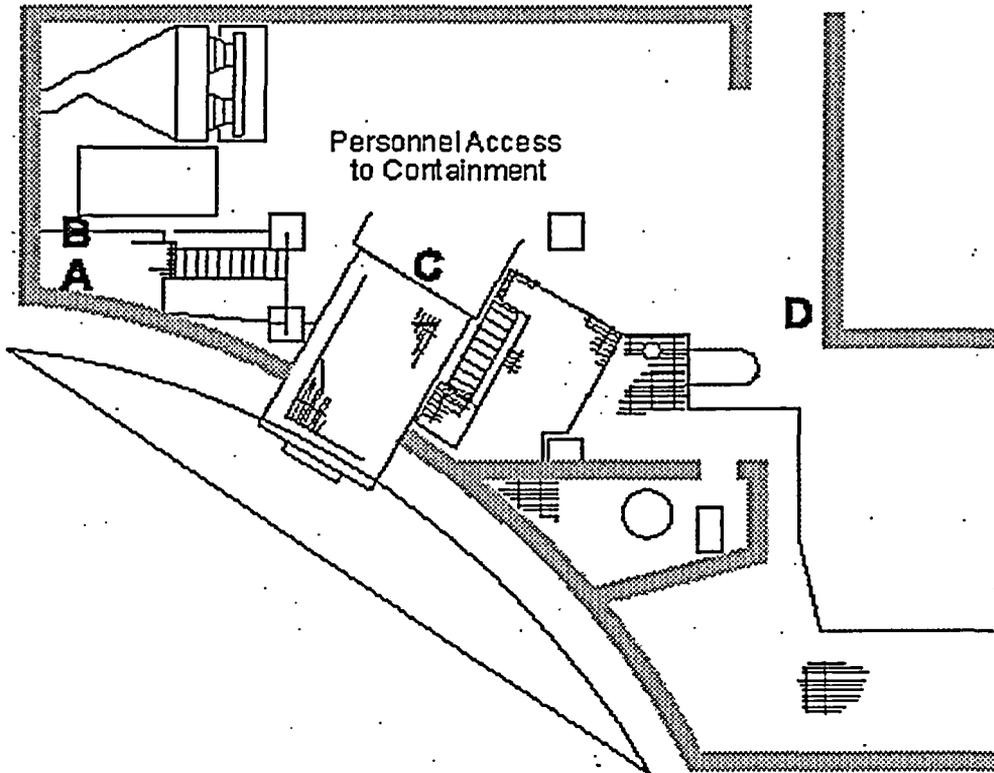
REACTOR COOLANT CHEMISTRY

| RCS CHEMISTRY | |
|-------------------------------|----------|
| Real Time period start | 14:00 |
| Real Time Period end | 14:14 |
| Drill Time | 7:00 |
| Concentration (uCi/cc) | |
| RCS Gases | |
| Ar41 | 3.16E-04 |
| Kr85m | 4.31E+00 |
| Kr85 | 6.04E-01 |
| Kr87 | 5.36E+00 |
| Kr88 | 1.04E+01 |
| Xe131m | 1.29E-01 |
| Xe133 | 3.84E+01 |
| Xe133m | 5.91E+00 |
| Xe135 | 1.20E+01 |
| Xe135m | 4.78E+00 |
| Xe138 | 1.75E+00 |
| RCS Liquid | |
| F-18 | 4.85E-02 |
| Na-24 | 1.63E-07 |
| Cr-51 | 6.96E-01 |
| Mn-54 | 1.24E+00 |
| Co-58 | 4.93E+00 |
| Co-60 | 1.24E+00 |
| I131 | 1.84E+01 |
| I132 | 1.86E+01 |
| I133 | 3.41E+01 |
| I134 | 1.84E+01 |
| I135 | 2.87E+01 |
| Cs134 | 1.38E+00 |
| Cs135 | 3.92E-10 |
| Cs136 | 1.57E-01 |
| Cs137 | 2.48E-01 |
| Cs138 | 5.54E+00 |
| Rb87 | 1.19E-14 |
| Rb88 | 1.01E+01 |
| Total | 1.44E+02 |
| Chemical Parameters | |
| Tritium (uCi/cc) | 1.5 |
| pH | 4.61 |
| Fluoride (ppm) | 0.003 |
| Chloride (ppm) | 0.004 |
| Sulfate (ppm) | 0.007 |
| D.O. (ppm) | <0.002 |
| Lithium (ppm) | 0.17 |
| Boron (ppm) | 2676 |
| Hydrogen (cc/kg) | 0 |
| Conductivity uS/cm | 10.9 |

| Time | Noble Gas (uCi/cc) in Purge | | Purge Line Dose Rates Contact | Purge Line Dose Rates 12" | RT 8077 Dose Rates | Contact w/PAL door | SI 'C' -21' FHB Rm. 004 RT 8086 | SI 'B' -21' FHB Rm. 005 RT 8085 |
|-------|-----------------------------------|--------------------|--|------------------------------------|--------------------------|--------------------------|--|--|
| | Line | Iodine (uCi/cc) | (mR/h) | (mR/h) | (mR/h) | (mR/h) | (mR/h) | (mR/h) |
| 7:00 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 7:15 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 7:30 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 7:45 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 8:00 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 8:15 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 8:30 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 8:45 | N/A | N/A | AS READ | AS READ | AS READ | AS READ | AS READ | AS READ |
| 9:00 | 7.7E-04 | 1.1E-05 | 4.8 | 1.2 | AS READ | 6.7 | AS READ | AS READ |
| 9:15 | 2.3E-02 | 3.3E-04 | 144.5 | 36.1 | 0.2 | 200.0 | AS READ | AS READ |
| 9:30 | 4.6E-02 | 6.6E-04 | 289.0 | 72.2 | 0.5 | 400.0 | AS READ | AS READ |
| 9:45 | 1.2E-01 | 1.6E-03 | 722.4 | 180.6 | 1.2 | 1000.0 | 450.0 | 25.0 |
| 10:00 | 1.4E-01 | 2.0E-03 | 866.9 | 216.7 | 1.5 | 1200.0 | 540.0 | 540.0 |
| 10:15 | 1.6E-01 | 2.3E-03 | 1011.4 | 252.8 | 1.7 | 1400.0 | 630.0 | 630.0 |
| 10:30 | 4.6E-01 | 6.6E-03 | 2,891.3 | 722.8 | 4.9 | 1600.9 | 720.4 | 720.4 |
| 10:45 | 1.4E+00 | 2.0E-02 | 8,845.2 | 2,211.3 | 15.0 | 2000.0 | 900.0 | 900.0 |
| 11:00 | 2.2E+00 | 3.0E-02 | 13,467.1 | 3,366.8 | 22.8 | 5000.0 | 2250.0 | 2250.0 |
| 11:15 | 1.9E+00 | 2.7E-02 | 12,127.1 | 3,031.8 | 20.5 | 4444.4 | 2000.0 | 2000.0 |
| 11:30 | 1.5E+00 | 2.0E-02 | 9,241.7 | 2,310.4 | 15.7 | 3333.3 | 1500.0 | 1500.0 |
| 11:45 | 1.3E+00 | 1.7E-02 | 7,819.6 | 1,954.9 | 13.2 | 2777.8 | 1250.0 | 1250.0 |
| 12:00 | 1.0E+00 | 1.4E-02 | 6,329.2 | 1,582.3 | 10.7 | 2222.2 | 1000.0 | 1000.0 |
| 12:15 | 7.7E-01 | 1.0E-02 | 4,807.9 | 1,202.0 | 8.1 | 1844.4 | 830.0 | 830.0 |
| 12:30 | 6.2E-01 | 8.3E-03 | 3,886.4 | 971.6 | 6.6 | 1777.8 | 800.0 | 800.0 |
| 12:45 | 5.8E-01 | 7.7E-03 | 3,604.4 | 901.1 | 6.1 | 1622.2 | 730.0 | 730.0 |
| 13:00 | 5.2E-01 | 6.9E-03 | 3,278.1 | 819.5 | 5.6 | 1444.4 | 650.0 | 650.0 |
| 13:15 | 4.8E-01 | 6.3E-03 | 3,009.8 | 752.5 | 5.1 | 1333.3 | 600.0 | 600.0 |
| 13:30 | 4.3E-01 | 5.6E-03 | 2,700.4 | 675.1 | 4.6 | 1177.8 | 530.0 | 530.0 |
| 13:45 | 2.0E-01 | 2.9E-03 | 1257.0 | 314.2 | 2.1 | 1160.0 | 522.0 | 522.0 |
| 14:00 | 2.0E-01 | 2.9E-03 | 1252.2 | 313.0 | 2.1 | 1155.6 | 520.0 | 520.0 |

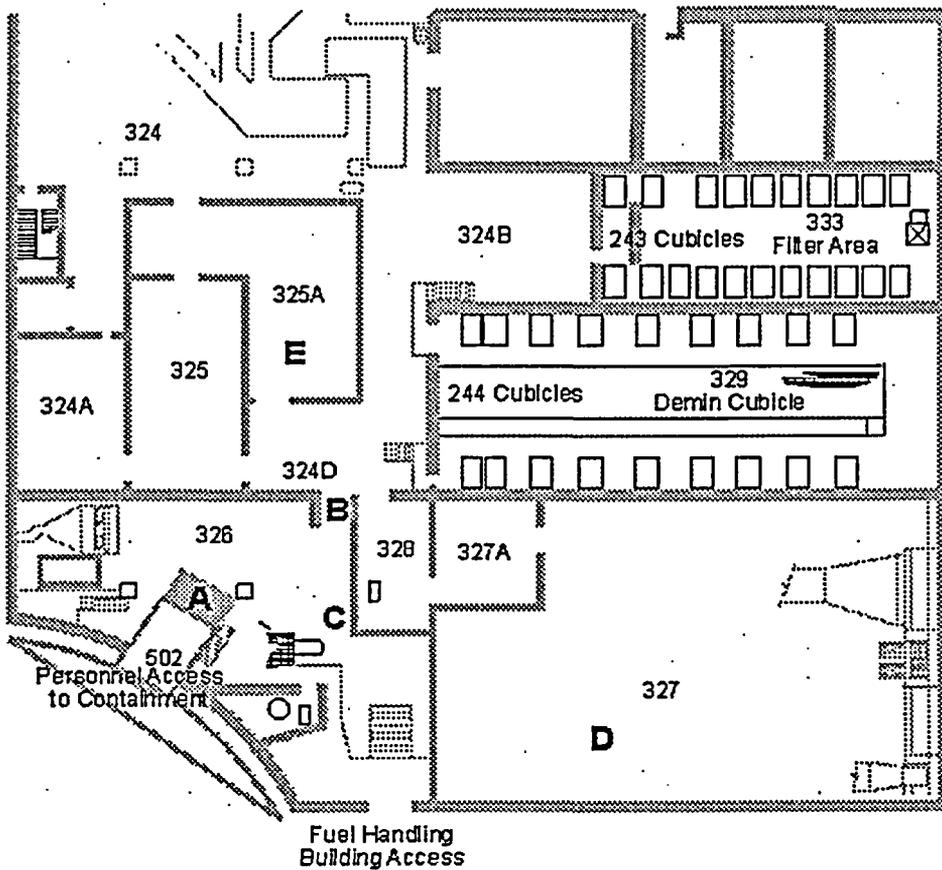
| | | |
|-------------|------------|---------|
| | O/S | |
| SI 'A' -21' | Elevator - | |
| FHB Rm. | 21' FHB | |
| 006 RT | Rm. 010 | |
| 8084 | RT 8087 | 8050 |
| (mR/h) | (mR/h) | (R/h) |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | AS READ |
| AS READ | AS READ | 3 |
| AS READ | AS READ | 90 |
| AS READ | AS READ | 180 |
| 2.3 | 4.5 | 450 |
| 9.0 | 7.2 | 540 |
| 10.5 | 8.4 | 630 |
| 12.0 | 9.6 | 720 |
| 15.0 | 12.0 | 900 |
| 37.5 | 30.0 | 2250 |
| 33.3 | 26.7 | 2000 |
| 25.0 | 20.0 | 1500 |
| 20.8 | 16.7 | 1250 |
| 16.7 | 13.3 | 1000 |
| 13.8 | 11.1 | 830 |
| 13.3 | 10.7 | 800 |
| 12.2 | 9.7 | 730 |
| 10.8 | 8.7 | 650 |
| 10.0 | 8.0 | 600 |
| 8.8 | 7.1 | 530 |
| 8.7 | 7.0 | 522 |
| 8.7 | 6.9 | 520 |

+068' MAB



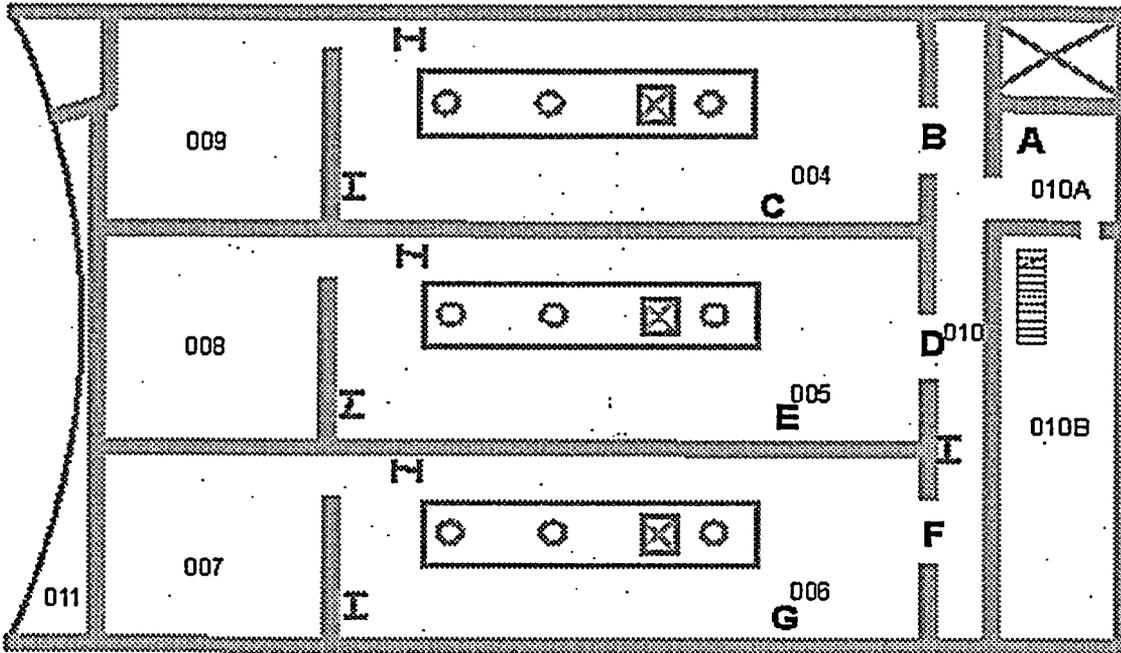
| | A - Purge Line (contact) | B - Purge Line (@ 12in.) | C - Personnel Air Lock (contact) | D - RT-8077 |
|-------|--------------------------------|--------------------------------|---|-------------|
| 9:00 | 5 | 1 | 7 | As Read |
| 9:15 | 145 | 36 | 200 | 0.2 |
| 9:30 | 289 | 72 | 400 | 0.5 |
| 9:45 | 722 | 181 | 1000 | 1.2 |
| 10:00 | 867 | 217 | 1200 | 1.5 |
| 10:15 | 1011 | 253 | 1400 | 1.7 |
| 10:30 | 2891 | 723 | 1601 | 4.9 |
| 10:45 | 8845 | 2211 | 2000 | 15 |
| 11:00 | 13467 | 3367 | 5000 | 22.8 |
| 11:15 | 12127 | 3032 | 4444 | 20.5 |
| 11:30 | 9242 | 2310 | 3333 | 15.7 |
| 11:45 | 7820 | 1955 | 2778 | 13.2 |
| 12:00 | 6329 | 1582 | 2222 | 10.7 |
| 12:15 | 4808 | 1202 | 1844 | 8.1 |
| 12:30 | 3886 | 972 | 1778 | 6.6 |
| 12:45 | 3604 | 901 | 1622 | 6.1 |
| 13:00 | 3278 | 820 | 1444 | 5.6 |
| 13:15 | 3010 | 753 | 1333 | 5.1 |
| 13:30 | 2700 | 675 | 1178 | 4.6 |
| 13:45 | 1257 | 314 | 1160 | 2.1 |
| 14:00 | 1252 | 313 | 1156 | 2.1 |

+060 MAB



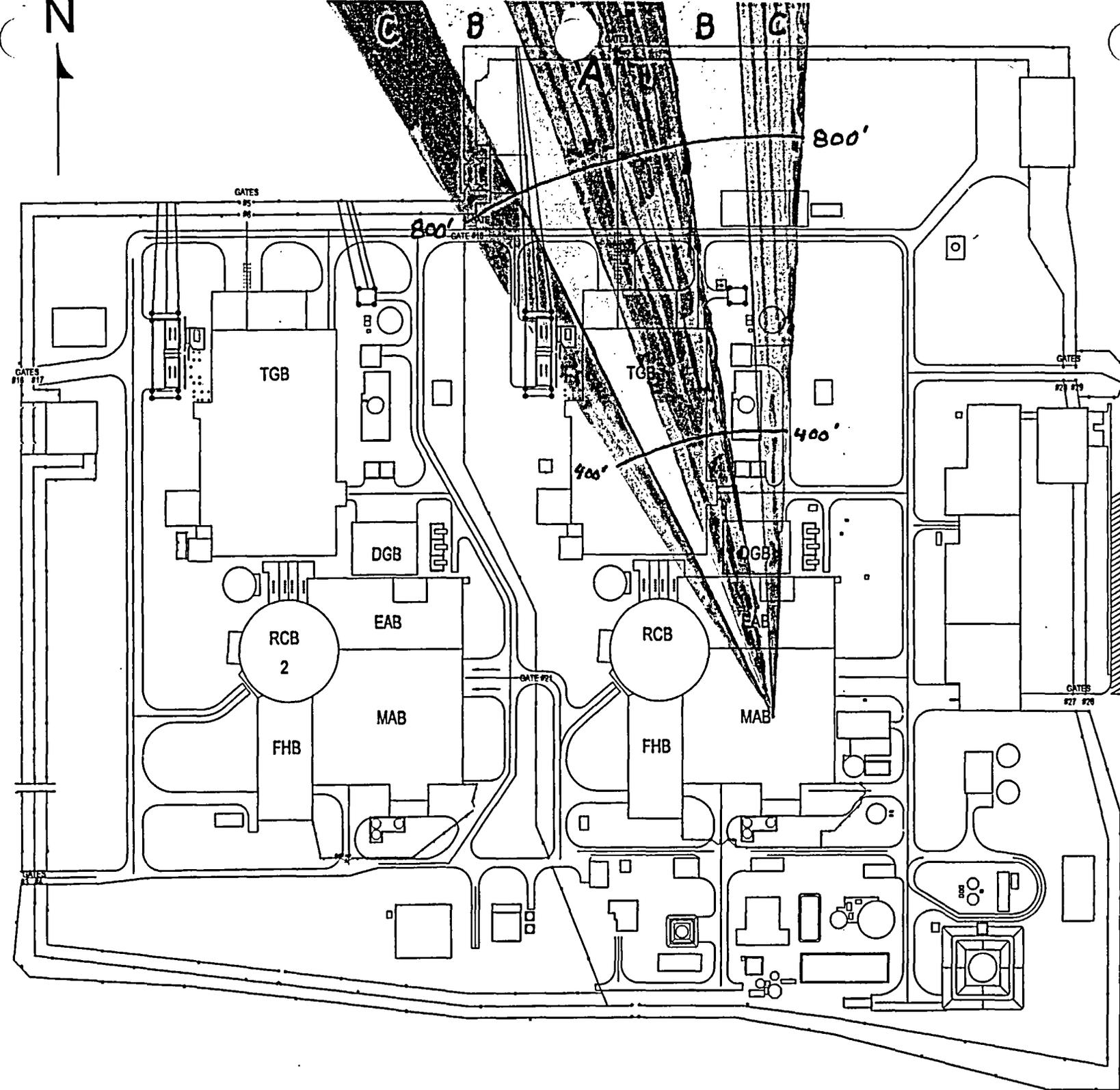
| | A - Contact w/ Personnel Air Lock | B - Rm 326 Entry | C - RT8077 | D - Hot Tool Room | E - Hot Mach Shop |
|-------|-----------------------------------|------------------|------------|-------------------|-------------------|
| 9:00 | 6.7 | As Read | As Read | As Read | As Read |
| 9:15 | 200 | As Read | 0.2 | As Read | As Read |
| 9:30 | 400 | 0.8 | 0.5 | 0.2 | As Read |
| 9:45 | 1000 | 2 | 1.2 | 0.6 | As Read |
| 10:00 | 1200 | 2 | 1.5 | 0.7 | As Read |
| 10:15 | 1400 | 3 | 1.7 | 0.9 | As Read |
| 10:30 | 1600.9 | 7 | 4.9 | 2.5 | As Read |
| 10:45 | 2000 | 22 | 15 | 7.5 | As Read |
| 11:00 | 5000 | 34 | 22.8 | 12 | As Read |
| 11:15 | 4444.4 | 31 | 20.5 | 10 | As Read |
| 11:30 | 3333.3 | 24 | 15.7 | 8 | As Read |
| 11:45 | 2777.8 | 20 | 13.2 | 7.5 | As Read |
| 12:00 | 2222.2 | 16 | 10.7 | 5.3 | As Read |
| 12:15 | 1844.4 | 12 | 8.1 | 4.1 | As Read |
| 12:30 | 1777.8 | 10 | 6.6 | 3.5 | As Read |
| 12:45 | 1622.2 | 9 | 6.1 | 3 | As Read |
| 13:00 | 1444.4 | 8 | 5.6 | 2.8 | As Read |
| 13:15 | 1333.3 | 8 | 5.1 | 2.5 | As Read |
| 13:30 | 1177.8 | 7 | 4.6 | 2.3 | As Read |
| 13:45 | 1160 | 3 | 2.1 | 1 | As Read |
| 14:00 | 1155.6 | 3 | 2.1 | 1 | As Read |

-021' FHB



| | A - RT8087 (near elevator) | B - C Train Access | C - RT-808 | D - B Train Access | E - RT-8085 | F - A Train Access | G - RT-8086 |
|-------|----------------------------|--------------------|------------|--------------------|-------------|--------------------|-------------|
| 9:30 | As Read | As Read | As Read | As Read | As Read | As Read | As Read |
| 9:45 | 4.5 | 7 | 450 | 360 | 25 | 20 | 2.3 |
| 10:00 | 7.2 | 8 | 540 | 432 | 540 | 430 | 9 |
| 10:15 | 8.4 | 9 | 630 | 504 | 630 | 500 | 10.5 |
| 10:30 | 9.6 | 10.6 | 720 | 580 | 720 | 580 | 12 |
| 10:45 | 12 | 13 | 900 | 720 | 900 | 720 | 15 |
| 11:00 | 30 | 35 | 2250 | 1800 | 2250 | 1800 | 37.5 |
| 11:15 | 26.7 | 30 | 2000 | 1600 | 2000 | 1600 | 33.3 |
| 11:30 | 20 | 22 | 1500 | 1200 | 1500 | 1200 | 25 |
| 11:45 | 16.7 | 20 | 1250 | 1000 | 1250 | 1000 | 20.8 |
| 12:00 | 13.3 | 15 | 1000 | 800 | 1000 | 800 | 16.7 |
| 12:15 | 11.1 | 12 | 830 | 664 | 830 | 665 | 13.8 |
| 12:30 | 10.7 | 12 | 800 | 640 | 800 | 640 | 13.3 |
| 12:45 | 9.7 | 10.5 | 730 | 600 | 730 | 600 | 12.2 |
| 13:00 | 8.7 | 10 | 650 | 520 | 650 | 520 | 10.8 |
| 13:15 | 8 | 9 | 600 | 480 | 600 | 480 | 10 |
| 13:30 | 7.1 | 8 | 530 | 425 | 530 | 425 | 8.8 |
| 13:45 | 7 | 8 | 522 | 420 | 522 | 420 | 8.7 |
| 14:00 | 6.9 | 7.5 | 520 | 420 | 520 | 420 | 8.7 |

| Time | Lower | Lower | Lower | Delta | 8010 | 8050 |
|------|---------|----------|----------|----------|-----------|---------|
| | Wind | | | | Noble Gas | |
| | Speed | Wind Dir | Temp Avg | Temp Avg | Release | |
| | Avg MPH | Avg DEG | DEGF | DEGF | Rate | |
| 700 | 8.9 | 221.0 | 75.31 | -0.45 | AS READ | AS READ |
| 715 | 7.7 | 219.0 | 75.89 | -0.46 | AS READ | AS READ |
| 730 | 8.3 | 215.0 | 76.47 | -0.46 | AS READ | AS READ |
| 745 | 7.2 | 206.8 | 77.16 | -0.47 | AS READ | AS READ |
| 800 | 4.4 | 194.1 | 77.92 | -0.47 | AS READ | AS READ |
| 815 | 7.8 | 181.0 | 78.53 | -0.48 | AS READ | AS READ |
| 830 | 9.7 | 176.5 | 79.13 | -0.48 | AS READ | AS READ |
| 845 | 7.1 | 172.6 | 79.85 | -0.49 | AS READ | AS READ |
| 900 | 5.6 | 174.1 | 80.49 | -0.49 | AS READ | 3 |
| 915 | 9.1 | 169.8 | 81.12 | -0.50 | AS READ | 90 |
| 930 | 7.5 | 168.4 | 81.76 | -0.50 | AS READ | 180 |
| 945 | 5.8 | 170.0 | 82.41 | -0.50 | AS READ | 450 |
| 1000 | 6.9 | 167.2 | 83.05 | -0.51 | AS READ | 540 |
| 1015 | 7.6 | 165.8 | 83.70 | -0.52 | AS READ | 630 |
| 1030 | 7.4 | 166.7 | 84.33 | -0.53 | 1.00E+08 | 720 |
| 1045 | 7.4 | 165.2 | 84.99 | -0.54 | 3.00E+08 | 900 |
| 1100 | 7.6 | 164.6 | 85.63 | -0.54 | 4.50E+08 | 2250 |
| 1115 | 7.8 | 164.9 | 86.28 | -0.55 | 4.00E+08 | 2000 |
| 1130 | 6.9 | 165.3 | 86.95 | -0.55 | 3.00E+08 | 1500 |
| 1145 | 6.4 | 163.0 | 87.61 | -0.57 | 2.50E+08 | 1250 |
| 1200 | 6.9 | 165.6 | 88.28 | -0.58 | 2.00E+08 | 1000 |
| 1215 | 6.5 | 164.3 | 88.95 | -0.60 | 1.50E+08 | 830 |
| 1230 | 7.7 | 166.0 | 89.65 | -0.62 | 1.20E+08 | 800 |
| 1245 | 6.8 | 165.2 | 90.32 | -0.68 | 1.10E+08 | 730 |
| 1300 | 5.7 | 168.8 | 91.00 | -0.78 | 9.70E+07 | 650 |
| 1315 | 6.9 | 166.8 | 91.70 | -0.79 | 9.00E+07 | 600 |
| 1330 | 8.5 | 167.4 | 92.39 | -0.89 | 8.00E+07 | 530 |
| 1345 | 6.0 | 172.8 | 93.10 | -1.15 | AS READ | 522 |
| 1400 | 7.0 | 173.6 | 93.80 | -1.50 | AS READ | 520 |



Time: 10:30

| Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|----------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 0 - 400 Feet -A- | 7.23E+03 | 6.63E-02 | 8.10E-05 | 5.09E+06 | 1.14E-03 | 3.51E+06 | 1.05E+04 | 1.01E+04 |
| Off Axis -B- | 2.52E+03 | 2.31E-02 | 2.83E-05 | 1.78E+06 | 3.98E-04 | 1.23E+06 | 3.66E+03 | 3.53E+03 |
| Off Axis -C- | 2.86E+02 | 2.62E-03 | 3.19E-06 | 2.01E+05 | 4.49E-05 | 1.38E+05 | 4.14E+02 | 4.00E+02 |
| 400 - 800 Feet -A- | 1.60E+03 | 1.46E-02 | 1.59E-05 | 9.97E+05 | 2.23E-04 | 6.87E+05 | 2.05E+03 | 1.98E+03 |
| 60' - 125' Off Axis | 5.57E+02 | 5.11E-03 | 5.54E-06 | 3.48E+05 | 7.79E-05 | 2.40E+05 | 7.16E+02 | 6.91E+02 |
| 125' - 250' Off Axis | 6.31E+01 | 5.78E-04 | 6.25E-07 | 3.93E+04 | 8.79E-06 | 2.71E+04 | 8.11E+01 | 7.83E+01 |
| 800 - 1200 Feet -A- | 1.07E+03 | 9.86E-03 | 1.03E-05 | 6.51E+05 | 1.46E-04 | 4.48E+05 | 1.34E+03 | 1.29E+03 |
| Off Axis -B- | 3.75E+02 | 3.44E-03 | 3.61E-06 | 2.27E+05 | 5.08E-05 | 1.57E+05 | 4.67E+02 | 4.51E+02 |
| Off Axis -C- | 4.25E+01 | 3.89E-04 | 4.08E-07 | 2.56E+04 | 5.73E-06 | 1.77E+04 | 5.29E+01 | 5.11E+01 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

- A -
PINK

- B -
YELLOW

- C -
GREEN

Time: 10:45

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|--|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 1.63E+07 | 0 - 400 Feet -A- | 2.13E+04 | 2.03E-01 | 2.51E-04 | 1.58E+07 | 3.44E-03 | 1.06E+07 | 3.19E+04 | 3.04E+04 |
| 5.69E+06 | Off Axis -B- | 7.44E+03 | 7.08E-02 | 8.77E-05 | 5.51E+06 | 1.20E-03 | 3.70E+06 | 1.11E+04 | 1.06E+04 |
| 6.44E+05 | Off Axis -C- | 8.42E+02 | 8.01E-03 | 9.88E-06 | 6.21E+05 | 1.36E-04 | 4.18E+05 | 1.26E+03 | 1.20E+03 |
| 3.19E+06 | 400 - 800 Feet -A- | 4.71E+03 | 4.48E-02 | 4.91E-05 | 3.09E+06 | 6.74E-04 | 2.08E+06 | 6.24E+03 | 5.95E+03 |
| 1.11E+06 | Off Axis -B- | 1.64E+03 | 1.56E-02 | 1.72E-05 | 1.08E+06 | 2.35E-04 | 7.25E+05 | 2.18E+03 | 2.08E+03 |
| 1.26E+05 | Off Axis -C- | 1.86E+02 | 1.77E-03 | 1.93E-06 | 1.22E+05 | 2.65E-05 | 8.17E+04 | 2.46E+02 | 2.35E+02 |
| 2.08E+06 | 800 - 1200 Feet -A- | 3.17E+03 | 3.02E-02 | 3.20E-05 | 2.01E+06 | 4.40E-04 | 1.35E+06 | 4.07E+03 | 3.88E+03 |
| 7.26E+05 | Off Axis -B- | 1.11E+03 | 1.05E-02 | 1.12E-05 | 7.04E+05 | 1.54E-04 | 4.73E+05 | 1.42E+03 | 1.35E+03 |
| 8.22E+04 | Off Axis -C- | 1.25E+02 | 1.19E-03 | 1.26E-06 | 7.93E+04 | 1.73E-05 | 5.33E+04 | 1.61E+02 | 1.53E+02 |

Abbreviations:

O.W. = Open Window

C.W. = Closed Window

CPM = counts per minute

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall:

LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 11:00

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 6.56E+07 | 0 - 400 Feet -A- | 3.12E+04 | 3.09E-01 | 3.88E-04 | 2.44E+07 | 5.21E-03 | 1.60E+07 | 4.90E+04 | 4.59E+04 |
| 2.29E+07 | Off Axis -B- | 1.09E+04 | 1.08E-01 | 1.35E-04 | 8.51E+06 | 1.82E-03 | 5.60E+06 | 1.71E+04 | 1.60E+04 |
| 2.59E+06 | Off Axis -C- | 1.23E+03 | 1.22E-02 | 1.53E-05 | 9.59E+05 | 2.05E-04 | 6.32E+05 | 1.94E+03 | 1.81E+03 |
| 1.28E+07 | 400 - 800 Feet -A- | 6.89E+03 | 6.82E-02 | 7.59E-05 | 4.77E+06 | 1.02E-03 | 3.14E+06 | 9.60E+03 | 8.99E+03 |
| 4.48E+06 | Off Axis -B- | 2.40E+03 | 2.38E-02 | 2.65E-05 | 1.67E+06 | 3.56E-04 | 1.10E+06 | 3.35E+03 | 3.13E+03 |
| 5.07E+05 | Off Axis -C- | 2.72E+02 | 2.69E-03 | 2.99E-06 | 1.88E+05 | 4.02E-05 | 1.24E+05 | 3.79E+02 | 3.55E+02 |
| 8.38E+06 | 800 - 1200 Feet -A- | 4.64E+03 | 4.59E-02 | 4.95E-05 | 3.11E+06 | 6.65E-04 | 2.05E+06 | 6.26E+03 | 5.86E+03 |
| 2.92E+06 | Off Axis -B- | 1.62E+03 | 1.60E-02 | 1.73E-05 | 1.09E+06 | 2.32E-04 | 7.16E+05 | 2.18E+03 | 2.05E+03 |
| 3.31E+05 | Off Axis -C- | 1.83E+02 | 1.81E-03 | 1.95E-06 | 1.23E+05 | 2.62E-05 | 8.07E+04 | 2.47E+02 | 2.32E+02 |

Abbreviations:

O.W. = Open Window

C.W. = Closed Window

CPM = counts per minute

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall:

LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

- A -
PINK

- B -
YELLOW

- C -
GREEN

Time: 11:15

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 1.40E+08 | 0 - 400 Feet -A- | 2.74E+04 | 2.78E-01 | 3.55E-04 | 2.23E+07 | 4.66E-03 | 1.43E+07 | 4.75E+04 | 4.29E+04 |
| 4.89E+07 | Off Axis -B- | 9.55E+03 | 9.70E-02 | 1.24E-04 | 7.80E+06 | 1.63E-03 | 5.01E+06 | 1.66E+04 | 1.50E+04 |
| 5.54E+06 | Off Axis -C- | 1.08E+03 | 1.10E-02 | 1.40E-05 | 8.79E+05 | 1.83E-04 | 5.65E+05 | 1.88E+03 | 1.70E+03 |
| 2.75E+07 | 400 - 800 Feet -A- | 6.05E+03 | 6.14E-02 | 6.95E-05 | 4.37E+06 | 9.11E-04 | 2.81E+06 | 9.30E+03 | 8.40E+03 |
| 9.58E+06 | Off Axis -B- | 2.11E+03 | 2.14E-02 | 2.43E-05 | 1.53E+06 | 3.18E-04 | 9.80E+05 | 3.24E+03 | 2.93E+03 |
| 1.08E+06 | Off Axis -C- | 2.39E+02 | 2.43E-03 | 2.74E-06 | 1.72E+05 | 3.59E-05 | 1.11E+05 | 3.67E+02 | 3.32E+02 |
| 1.79E+07 | 800 - 1200 Feet -A- | 4.07E+03 | 4.14E-02 | 4.54E-05 | 2.85E+06 | 5.95E-04 | 1.83E+06 | 6.07E+03 | 5.48E+03 |
| 6.25E+06 | Off Axis -B- | 1.42E+03 | 1.44E-02 | 1.58E-05 | 9.96E+05 | 2.08E-04 | 6.40E+05 | 2.12E+03 | 1.91E+03 |
| 7.08E+05 | Off Axis -C- | 1.61E+02 | 1.63E-03 | 1.79E-06 | 1.12E+05 | 2.34E-05 | 7.21E+04 | 2.40E+02 | 2.16E+02 |

Abbreviations:

O.W. = Open Window

C.W. = Closed Window

CPM = counts per minute

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 11:30

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 2.07E+08 | 0 - 400 Feet -A- | 2.16E+04 | 2.12E-01 | 2.73E-04 | 1.72E+07 | 3.52E-03 | 1.08E+07 | 4.25E+04 | 3.68E+04 |
| 7.23E+07 | Off Axis -B- | 7.53E+03 | 7.39E-02 | 9.54E-05 | 6.00E+06 | 1.23E-03 | 3.78E+06 | 1.48E+04 | 1.28E+04 |
| 8.19E+06 | Off Axis -C- | 8.53E+02 | 8.37E-03 | 1.08E-05 | 6.76E+05 | 1.38E-04 | 4.27E+05 | 1.68E+03 | 1.45E+03 |
| 4.06E+07 | 400 - 800 Feet -A- | 4.77E+03 | 4.68E-02 | 5.35E-05 | 3.36E+06 | 6.88E-04 | 2.12E+06 | 8.32E+03 | 7.20E+03 |
| 1.41E+07 | Off Axis -B- | 1.66E+03 | 1.63E-02 | 1.87E-05 | 1.17E+06 | 2.40E-04 | 7.40E+05 | 2.90E+03 | 2.51E+03 |
| 1.60E+06 | Off Axis -C- | 1.88E+02 | 1.85E-03 | 2.11E-06 | 1.32E+05 | 2.71E-05 | 8.35E+04 | 3.29E+02 | 2.84E+02 |
| 2.65E+07 | 800 - 1200 Feet -A- | 3.21E+03 | 3.15E-02 | 3.49E-05 | 2.19E+06 | 4.49E-04 | 1.38E+06 | 5.43E+03 | 4.70E+03 |
| 9.23E+06 | Off Axis -B- | 1.12E+03 | 1.10E-02 | 1.22E-05 | 7.66E+05 | 1.57E-04 | 4.83E+05 | 1.89E+03 | 1.64E+03 |
| 1.05E+06 | Off Axis -C- | 1.27E+02 | 1.24E-03 | 1.37E-06 | 8.63E+04 | 1.77E-05 | 5.45E+04 | 2.14E+02 | 1.86E+02 |

Abbreviations:

O.W. = Open Window

C.W. = Closed Window

CPM = counts per minute

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 11:45

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 2.58E+08 | 0 - 400 Feet -A- | 1.86E+04 | 1.79E-01 | 2.34E-04 | 1.47E+07 | 2.95E-03 | 9.09E+06 | 4.08E+04 | 3.41E+04 |
| 8.99E+07 | Off Axis -B- | 6.48E+03 | 6.26E-02 | 8.18E-05 | 5.14E+06 | 1.03E-03 | 3.17E+06 | 1.42E+04 | 1.19E+04 |
| 1.02E+07 | Off Axis -C- | 7.34E+02 | 7.08E-03 | 9.22E-06 | 5.80E+05 | 1.16E-04 | 3.58E+05 | 1.61E+03 | 1.35E+03 |
| 5.05E+07 | 400 - 800 Feet -A- | 4.10E+03 | 3.96E-02 | 4.58E-05 | 2.88E+06 | 5.78E-04 | 1.78E+06 | 7.98E+03 | 6.68E+03 |
| 1.76E+07 | Off Axis -B- | 1.43E+03 | 1.38E-02 | 1.60E-05 | 1.01E+06 | 2.02E-04 | 6.21E+05 | 2.79E+03 | 2.33E+03 |
| 1.99E+06 | Off Axis -C- | 1.62E+02 | 1.56E-03 | 1.81E-06 | 1.13E+05 | 2.27E-05 | 7.01E+04 | 3.15E+02 | 2.64E+02 |
| 3.29E+07 | 800 - 1200 Feet -A- | 2.76E+03 | 2.67E-02 | 2.99E-05 | 1.88E+06 | 3.77E-04 | 1.16E+06 | 5.21E+03 | 4.36E+03 |
| 1.15E+07 | Off Axis -B- | 9.64E+02 | 9.30E-03 | 1.04E-05 | 6.57E+05 | 1.32E-04 | 4.05E+05 | 1.82E+03 | 1.52E+03 |
| 1.30E+06 | Off Axis -C- | 1.09E+02 | 1.05E-03 | 1.18E-06 | 7.40E+04 | 1.48E-05 | 4.57E+04 | 2.06E+02 | 1.72E+02 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 12:00

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 3.00E+08 | 0 - 400 Feet -A- | 1.48E+04 | 1.45E-01 | 1.91E-04 | 1.20E+07 | 2.38E-03 | 7.32E+06 | 3.76E+04 | 3.02E+04 |
| 1.05E+08 | Off Axis -B- | 5.17E+03 | 5.06E-02 | 6.69E-05 | 4.20E+06 | 8.30E-04 | 2.56E+06 | 1.31E+04 | 1.05E+04 |
| 1.19E+07 | Off Axis -C- | 5.85E+02 | 5.73E-03 | 7.54E-06 | 4.74E+05 | 9.35E-05 | 2.88E+05 | 1.49E+03 | 1.19E+03 |
| 5.88E+07 | 400 - 800 Feet -A- | 3.27E+03 | 3.21E-02 | 3.75E-05 | 2.36E+06 | 4.65E-04 | 1.43E+06 | 7.36E+03 | 5.90E+03 |
| 2.05E+07 | Off Axis -B- | 1.14E+03 | 1.12E-02 | 1.31E-05 | 8.23E+05 | 1.62E-04 | 5.00E+05 | 2.57E+03 | 2.06E+03 |
| 2.32E+06 | Off Axis -C- | 1.29E+02 | 1.27E-03 | 1.48E-06 | 9.28E+04 | 1.83E-05 | 5.64E+04 | 2.91E+02 | 2.33E+02 |
| 3.83E+07 | 800 - 1200 Feet -A- | 2.20E+03 | 2.16E-02 | 2.45E-05 | 1.54E+06 | 3.03E-04 | 9.34E+05 | 4.80E+03 | 3.85E+03 |
| 1.34E+07 | Off Axis -B- | 7.68E+02 | 7.53E-03 | 8.54E-06 | 5.37E+05 | 1.06E-04 | 3.26E+05 | 1.67E+03 | 1.34E+03 |
| 1.51E+06 | Off Axis -C- | 8.70E+01 | 8.53E-04 | 9.63E-07 | 6.05E+04 | 1.19E-05 | 3.68E+04 | 1.90E+02 | 1.52E+02 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 12:15

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 3.35E+08 | 0 - 400 Feet -A- | 1.18E+04 | 1.10E-01 | 1.47E-04 | 9.23E+06 | 1.79E-03 | 5.51E+06 | 3.50E+04 | 2.70E+04 |
| 1.17E+08 | Off Axis -B- | 4.11E+03 | 3.85E-02 | 5.13E-05 | 3.23E+06 | 6.25E-04 | 1.92E+06 | 1.22E+04 | 9.40E+03 |
| 1.32E+07 | Off Axis -C- | 4.66E+02 | 4.36E-03 | 5.78E-06 | 3.64E+05 | 7.05E-05 | 2.17E+05 | 1.38E+03 | 1.06E+03 |
| 6.55E+07 | 400 - 800 Feet -A- | 2.60E+03 | 2.43E-02 | 2.88E-05 | 1.81E+06 | 3.50E-04 | 1.08E+06 | 6.84E+03 | 5.28E+03 |
| 2.28E+07 | Off Axis -B- | 9.08E+02 | 8.49E-03 | 1.00E-05 | 6.31E+05 | 1.22E-04 | 3.77E+05 | 2.39E+03 | 1.84E+03 |
| 2.59E+06 | Off Axis -C- | 1.03E+02 | 9.62E-04 | 1.13E-06 | 7.12E+04 | 1.38E-05 | 4.25E+04 | 2.70E+02 | 2.08E+02 |
| 4.27E+07 | 800 - 1200 Feet -A- | 1.75E+03 | 1.64E-02 | 1.88E-05 | 1.18E+06 | 2.28E-04 | 7.04E+05 | 4.47E+03 | 3.44E+03 |
| 1.49E+07 | Off Axis -B- | 6.12E+02 | 5.72E-03 | 6.55E-06 | 4.12E+05 | 7.98E-05 | 2.46E+05 | 1.56E+03 | 1.20E+03 |
| 1.69E+06 | Off Axis -C- | 6.93E+01 | 6.48E-04 | 7.39E-07 | 4.64E+04 | 9.00E-06 | 2.77E+04 | 1.76E+02 | 1.36E+02 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 12:30

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 3.60E+08 | 0 - 400 Feet -A- | 9.43E+03 | 8.91E-02 | 1.20E-04 | 7.55E+06 | 1.44E-03 | 4.43E+06 | 3.29E+04 | 2.45E+04 |
| 1.26E+08 | Off Axis -B- | 3.29E+03 | 3.11E-02 | 4.19E-05 | 2.64E+06 | 5.02E-04 | 1.55E+06 | 1.15E+04 | 8.53E+03 |
| 1.42E+07 | Off Axis -C- | 3.72E+02 | 3.52E-03 | 4.73E-06 | 2.97E+05 | 5.66E-05 | 1.74E+05 | 1.30E+03 | 9.66E+02 |
| 7.05E+07 | 400 - 800 Feet -A- | 2.08E+03 | 1.97E-02 | 2.35E-05 | 1.48E+06 | 2.81E-04 | 8.67E+05 | 6.45E+03 | 4.79E+03 |
| 2.46E+07 | Off Axis -B- | 7.26E+02 | 6.87E-03 | 8.21E-06 | 5.16E+05 | 9.83E-05 | 3.03E+05 | 2.25E+03 | 1.67E+03 |
| 2.79E+06 | Off Axis -C- | 8.22E+01 | 7.78E-04 | 9.25E-07 | 5.82E+04 | 1.11E-05 | 3.41E+04 | 2.55E+02 | 1.89E+02 |
| 4.60E+07 | 800 - 1200 Feet -A- | 1.40E+03 | 1.33E-02 | 1.53E-05 | 9.63E+05 | 1.84E-04 | 5.65E+05 | 4.21E+03 | 3.12E+03 |
| 1.61E+07 | Off Axis -B- | 4.89E+02 | 4.62E-03 | 5.35E-06 | 3.37E+05 | 6.41E-05 | 1.97E+05 | 1.47E+03 | 1.09E+03 |
| 1.82E+06 | Off Axis -C- | 5.54E+01 | 5.24E-04 | 6.04E-07 | 3.79E+04 | 7.23E-06 | 2.23E+04 | 1.66E+02 | 1.23E+02 |

Abbreviations:

O.W. = Open Window

CPM = counts per minute

C.W. = Closed Window

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall:

LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

- A -
PINK

- B -
YELLOW

- C -
GREEN

Time: 12:45

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 3.81E+08 | 0 - 400 Feet -A- | 9.10E+03 | 8.27E-02 | 1.13E-04 | 7.07E+06 | 1.32E-03 | 4.08E+06 | 3.35E+04 | 2.46E+04 |
| 1.33E+08 | Off Axis -B- | 3.17E+03 | 2.88E-02 | 3.93E-05 | 2.47E+06 | 4.62E-04 | 1.42E+06 | 1.17E+04 | 8.59E+03 |
| 1.51E+07 | Off Axis -C- | 3.59E+02 | 3.27E-03 | 4.43E-06 | 2.79E+05 | 5.21E-05 | 1.61E+05 | 1.32E+03 | 9.72E+02 |
| 7.46E+07 | 400 - 800 Feet -A- | 2.01E+03 | 1.83E-02 | 2.20E-05 | 1.38E+06 | 2.59E-04 | 7.98E+05 | 6.56E+03 | 4.82E+03 |
| 2.60E+07 | Off Axis -B- | 7.01E+02 | 6.37E-03 | 7.69E-06 | 4.84E+05 | 9.05E-05 | 2.79E+05 | 2.29E+03 | 1.68E+03 |
| 2.95E+06 | Off Axis -C- | 7.93E+01 | 7.21E-04 | 8.67E-07 | 5.45E+04 | 1.02E-05 | 3.14E+04 | 2.59E+02 | 1.90E+02 |
| 4.87E+07 | 800 - 1200 Feet -A- | 1.35E+03 | 1.23E-02 | 1.44E-05 | 9.03E+05 | 1.69E-04 | 5.21E+05 | 4.28E+03 | 3.14E+03 |
| 1.70E+07 | Off Axis -B- | 4.72E+02 | 4.29E-03 | 5.02E-06 | 3.15E+05 | 5.90E-05 | 1.82E+05 | 1.49E+03 | 1.10E+03 |
| 1.92E+06 | Off Axis -C- | 5.34E+01 | 4.86E-04 | 5.66E-07 | 3.56E+04 | 6.66E-06 | 2.05E+04 | 1.69E+02 | 1.24E+02 |

Abbreviations:

O.W. = Open Window

CPM = counts per minute

C.W. = Closed Window

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall:

LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 13:00

| Frisker Swipe CPM/ 100 cm2 | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|-------------------------------------|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 4.00E+08 | 0 - 400 Feet -A- | 8.78E+03 | 7.52E-02 | 1.03E-04 | 6.49E+06 | 1.20E-03 | 3.68E+06 | 3.40E+04 | 2.47E+04 |
| 1.40E+08 | Off Axis -B- | 3.06E+03 | 2.62E-02 | 3.61E-05 | 2.27E+06 | 4.18E-04 | 1.29E+06 | 1.19E+04 | 8.63E+03 |
| 1.58E+07 | Off Axis -C- | 3.47E+02 | 2.97E-03 | 4.07E-06 | 2.56E+05 | 4.71E-05 | 1.45E+05 | 1.34E+03 | 9.77E+02 |
| 7.84E+07 | 400 - 800 Feet -A- | 1.94E+03 | 1.66E-02 | 2.02E-05 | 1.27E+06 | 2.34E-04 | 7.21E+05 | 6.66E+03 | 4.84E+03 |
| 2.73E+07 | Off Axis -B- | 6.76E+02 | 5.79E-03 | 7.06E-06 | 4.44E+05 | 8.17E-05 | 2.52E+05 | 2.32E+03 | 1.69E+03 |
| 3.10E+06 | Off Axis -C- | 7.66E+01 | 6.56E-04 | 7.96E-07 | 5.00E+04 | 9.22E-06 | 2.84E+04 | 2.63E+02 | 1.91E+02 |
| 5.11E+07 | 800 - 1200 Feet -A- | 1.31E+03 | 1.12E-02 | 1.32E-05 | 8.29E+05 | 1.53E-04 | 4.70E+05 | 4.35E+03 | 3.16E+03 |
| 1.78E+07 | Off Axis -B- | 4.55E+02 | 3.90E-03 | 4.61E-06 | 2.90E+05 | 5.33E-05 | 1.64E+05 | 1.52E+03 | 1.10E+03 |
| 2.02E+06 | Off Axis -C- | 5.16E+01 | 4.42E-04 | 5.19E-07 | 3.26E+04 | 6.01E-06 | 1.85E+04 | 1.72E+02 | 1.25E+02 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

- A -
PINK

- B -
YELLOW

- C -
GREEN

Time: 13:15

| Frisker Swipe CPM/ 100 cm2 | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|-------------------------------------|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 4.18E+08 | 0 - 400 Feet -A- | 7.85E+03 | 6.90E-02 | 9.57E-05 | 6.01E+06 | 1.09E-03 | 3.36E+06 | 3.36E+04 | 2.40E+04 |
| 1.46E+08 | Off Axis -B- | 2.74E+03 | 2.41E-02 | 3.34E-05 | 2.10E+06 | 3.81E-04 | 1.17E+06 | 1.17E+04 | 8.37E+03 |
| 1.65E+07 | Off Axis -C- | 3.10E+02 | 2.73E-03 | 3.77E-06 | 2.37E+05 | 4.30E-05 | 1.32E+05 | 1.33E+03 | 9.48E+02 |
| 8.18E+07 | 400 - 800 Feet -A- | 1.73E+03 | 1.52E-02 | 1.87E-05 | 1.18E+06 | 2.13E-04 | 6.58E+05 | 6.58E+03 | 4.70E+03 |
| 2.85E+07 | Off Axis -B- | 6.05E+02 | 5.32E-03 | 6.54E-06 | 4.11E+05 | 7.46E-05 | 2.30E+05 | 2.30E+03 | 1.64E+03 |
| 3.23E+06 | Off Axis -C- | 6.85E+01 | 6.02E-04 | 7.37E-07 | 4.64E+04 | 8.41E-06 | 2.59E+04 | 2.60E+02 | 1.86E+02 |
| 5.33E+07 | 800 - 1200 Feet -A- | 1.17E+03 | 1.03E-02 | 1.22E-05 | 7.68E+05 | 1.39E-04 | 4.29E+05 | 4.30E+03 | 3.06E+03 |
| 1.86E+07 | Off Axis -B- | 4.07E+02 | 3.58E-03 | 4.27E-06 | 2.68E+05 | 4.86E-05 | 1.50E+05 | 1.50E+03 | 1.07E+03 |
| 2.11E+06 | Off Axis -C- | 4.61E+01 | 4.05E-04 | 4.81E-07 | 3.02E+04 | 5.49E-06 | 1.69E+04 | 1.70E+02 | 1.21E+02 |

Abbreviations:

O.W. = Open Window

C.W. = Closed Window

CPM = counts per minute

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 13:30

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 4.34E+08 | 0 - 400 Feet -A- | 6.97E+03 | 6.19E-02 | 8.67E-05 | 5.45E+06 | 9.71E-04 | 2.99E+06 | 3.32E+04 | 2.33E+04 |
| 1.51E+08 | Off Axis -B- | 2.43E+03 | 2.16E-02 | 3.03E-05 | 1.90E+06 | 3.39E-04 | 1.05E+06 | 1.16E+04 | 8.12E+03 |
| 1.71E+07 | Off Axis -C- | 2.75E+02 | 2.45E-03 | 3.41E-06 | 2.15E+05 | 3.83E-05 | 1.18E+05 | 1.31E+03 | 9.19E+02 |
| 8.49E+07 | 400 - 800 Feet -A- | 1.54E+03 | 1.37E-02 | 1.70E-05 | 1.07E+06 | 1.90E-04 | 5.86E+05 | 6.50E+03 | 4.55E+03 |
| 2.96E+07 | Off Axis -B- | 5.37E+02 | 4.77E-03 | 5.93E-06 | 3.73E+05 | 6.64E-05 | 2.05E+05 | 2.27E+03 | 1.59E+03 |
| 3.35E+06 | Off Axis -C- | 6.08E+01 | 5.40E-04 | 6.68E-07 | 4.20E+04 | 7.49E-06 | 2.31E+04 | 2.57E+02 | 1.80E+02 |
| 5.54E+07 | 800 - 1200 Feet -A- | 1.04E+03 | 9.21E-03 | 1.11E-05 | 6.96E+05 | 1.24E-04 | 3.82E+05 | 4.24E+03 | 2.97E+03 |
| 1.93E+07 | Off Axis -B- | 3.62E+02 | 3.21E-03 | 3.87E-06 | 2.43E+05 | 4.33E-05 | 1.33E+05 | 1.48E+03 | 1.04E+03 |
| 2.19E+06 | Off Axis -C- | 4.10E+01 | 3.64E-04 | 4.36E-07 | 2.74E+04 | 4.89E-06 | 1.50E+04 | 1.68E+02 | 1.17E+02 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

- A -
PINK

- B -
YELLOW

- C -
GREEN

Time: 13:45

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 4.48E+08 | 0 - 400 Feet -A- | 3.00E+03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E+04 | 1.78E+04 |
| 1.56E+08 | Off Axis -B- | 1.05E+03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.66E+03 | 6.22E+03 |
| 1.77E+07 | Off Axis -C- | 1.19E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E+03 | 7.05E+02 |
| 8.76E+07 | 400 - 800 Feet -A- | 6.63E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.42E+03 | 3.49E+03 |
| 3.06E+07 | Off Axis -B- | 2.31E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E+03 | 1.22E+03 |
| 3.46E+06 | Off Axis -C- | 2.62E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E+02 | 1.38E+02 |
| 5.72E+07 | 800 - 1200 Feet -A- | 4.46E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E+03 | 2.28E+03 |
| 1.99E+07 | Off Axis -B- | 1.56E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E+03 | 7.95E+02 |
| 2.26E+06 | Off Axis -C- | 1.76E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E+02 | 9.00E+01 |

Abbreviations:

O.W. = Open Window
C.W. = Closed Window

CPM = counts per minute
LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall: LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN

Time: 14:00

| Frisker Swipe CPM/ 100 cm ² | Location | Dose Rate (mrem/h) | Noble Gas (uCi/cc) | Particulates | | Iodines | | Deposition | |
|---|---------------------|-----------------------|-----------------------|--------------|-------------------|----------|-------------------|----------------|----------------|
| | | | | uCi/cc | cpm/ 10 cu.ft. | uCi/cc | cpm/ 10 cu.ft. | O.W. (mR/h) | C.W. (mR/h) |
| 4.43E+08 | 0 - 400 Feet -A- | 2.97E+03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E+04 | 1.77E+04 |
| 1.55E+08 | Off Axis -B- | 1.04E+03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E+03 | 6.16E+03 |
| 1.75E+07 | Off Axis -C- | 1.17E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E+03 | 6.98E+02 |
| 8.68E+07 | 400 - 800 Feet -A- | 6.56E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.37E+03 | 3.46E+03 |
| 3.03E+07 | Off Axis -B- | 2.29E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E+03 | 1.21E+03 |
| 3.43E+06 | Off Axis -C- | 2.59E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E+02 | 1.37E+02 |
| 5.66E+07 | 800 - 1200 Feet -A- | 4.42E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E+03 | 2.26E+03 |
| 1.97E+07 | Off Axis -B- | 1.54E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E+03 | 7.87E+02 |
| 2.24E+06 | Off Axis -C- | 1.75E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E+02 | 8.91E+01 |

Abbreviations:

O.W. = Open Window

C.W. = Closed Window

CPM = counts per minute

LMD = Less than Minimum Detectable

Containment Wall Shine - contact with outer wall:

LMD

If Dose Rate is <0.2 mrem/h, read LMD.

If cpm is <100, read LMD.

If cpm is > 5E4, read offscale high.

To convert cpm to open window ion chamber reading in mR/h open window, divide by 10,000.

-A-
PINK

-B-
YELLOW

-C-
GREEN