WATERFORD 3 STEAM ELECTRIC STATION

DRILL #95-04

EMERGENCY PREPAREDNESS ANNUAL EXERCISE

JULY 12, 1995

PARTICIPANTS

ENTERGY OPERATIONS, INC.
LOUISIANA POWER & LIGHT COMPANY
STATE OF LOUISIANA
ST. CHARLES PARISH
ST. JOHN THE BAPTIST PARISH

APPROVAL: ______________________________
EMERGENCY PLANNING AND ADMINISTRATION MANAGER

APPROVAL: ______________________________
GENERAL MANAGER - PLANT OPERATIONS

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VICE PRESIDENT, OPERATIONS

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I. INTRODUCTION

In the interest of assuring the health and safety of the general public in the area of the Waterford 3 Steam Electric Station, in the event of a radiological emergency, Waterford 3 conducts exercises jointly with the Federal, State and local agencies on an annual basis.

This manual contains the scenario of activities and supporting data describing the Waterford 3 Annual Emergency Preparedness Exercise.

The scenario was developed by postulating events that will require response by the various Entergy Operations, Inc., and LP&L emergency response organizations.

During the exercise, the licensee and support organizations will respond to the postulated events and conditions that have been selected to provide the level of activity necessary to meet the exercise objectives.

The State of Louisiana, St. Charles and St. John the Baptist Parishes will participate in the annual exercise. The level of involvement of these government agencies is more completely described in the separate exercise package containing the offsite scenario developed by the State of Louisiana.

Exercise "participants" will have no prior knowledge of the sequence of events or radiological release information. The exercise scenario will allow those individuals and agencies assigned to respond during a radiological emergency to demonstrate their performance according to current emergency preparedness plans and procedures.

The scenario is a mechanism by which selected drill controllers and monitors will initiate and evaluate the activities of the drill participants. The exercise will be initiated at the Waterford 3 SES at 07:45 on July 12, 1995 and is expected to last approximately 6 hours.

Participating organizations are shown in Section III, Guidelines, of this manual.

A. ABBREVIATIONS

ALARA	-	As Low As Reasonably Achievable
ANO	-	Arkansas Nuclear One
BKR	-	Breaker
CAS	-	Central Alarm Station
CASCO	-	Central Alarm Station Console Operator
CIAS	-	Containment Isolation Actuation Signal
CNTMT	-	Containment
CRS	-	Control Room Supervisor
CS	-	Containment Spray
CSP	-	Containment Spray Pump
CVAS	-	Controlled Ventilation Area System
CVCS	-	Chemical Volume Control System
DEI	-	Dose Equivalent Iodine
DNBR	-	Departure from Nucleate Boiling Ratio
DPC	-	Dose Projection Coordinator
DPM	-	Duty Plant Manager
DPM	-	Disintegrations Per Minute
EAB	-	Exclusion Area Boundary
EAL	-	Emergency Action Level
EC	-	Emergency Coordinator
ECC	-	Emergency Control Center
ECCS	-	Emergency Core Cooling System
EDG	-	Emergency Diesel Generator
EFAS	-	Emergency Feedwater Actuation Signal
EFAT	-	Emergency First Aid Team

A. ABBREVIATIONS (CONT'D)

EFWP	-	Emergency Feedwater Pump
ENC	-	Emergency News Center
ENS	-	Emergency Notification System
EOC	-	Emergency Operations Center
EOF	-	Emergency Operations Facility
EPZ	-	Emergency Planning Zone
ERDS	-	Emergency Response Data System
FEMA	-	Federal Emergency Management Agency
FFRT	-	Fixed Facility Response Team
FTC	-	Field Team Controller
GWM	-	Gaseous Waste Management System
HP	-	Health Physics
HPC	-	Health Physics Coordinator
HPSI	-	High Pressure Safety Injection
IC	-	Initiating Condition
IHL	-	Industrial Hotline
INST	-	Instrument
LLEA	-	Local Law Enforcement Agency
LOCA	-	Loss of Coolant Accident
LOEP	-	Louisiana Office of Emergency Preparedness
LP&L	-	Louisiana Power & Light Company
LPSI	-	Low Pressure Safety Injection
LRPD	-	Louisiana Radiation Protection Division
MARMOND	-	Meteorological and Radiation Monitoring Display
MCC	-	Motor Control Center

A. ABBREVIATIONS (CONT'D)

MSL	-	Mean Sea Level
MSIS	-	Main Steam Isolation Signal
MSIV	-	Main Steam Isolation Valve
MTR	-	Motor
NAO	-	Nuclear Auxiliary Operator
NG	-	Noble Gas
NPO	-	Nuclear Plant Operator (RO)
NRC	-	Nuclear Regulatory Commission
NWS	-	National Weather Service
OHL	-	Operational Hotline
OSC	-	Operational Support Center
PAP	-	Primary Access Point
PM	-	Preventative Maintenance
PME	-	Plant Maintenance Electrical
PMI	-	Plant Maintenance Instrumentation
PMM	-	Plant Maintenance Mechanical
PZR	-	Pressurizer
RAB	-	Reactor Auxiliary Building
RAS	-	Recirculation Actuation Signal
RCA	-	Radiological Controlled Area
RCB	-	Reactor Containment Building
RCP	-	Reactor Coolant Pump
RCS	-	Reactor Coolant System
RMS	-	Radiation Monitoring System
RO	-	Reactor Operator

A. ABBREVIATIONS (CONT'D)

RVLM	-	Reactor Vessel Level Monitor
RWP	-	Radiation Work Permit
RWSP	-	Refueling Water Storage Pool
SAS	-	Secondary Alarm Station
SASCO	-	Secondary Alarm Station Console Operator
SCBA	-	Self Contained Breathing Apparatus
SDC	-	Shutdown Cooling
SG	-	Steam Generator
SIAS	-	Safety Injection Actuation Signal
SIS	-	Safety Injection System
SPDS	-	Safety Parameter Display System
SRD	-	Self Reading Dosimeter
SRO	-	Senior Reactor Operator
SS	-	Shift Supervisor
SSS	-	Security Shift Supervisor
TSC	-	Technical Support Center
VNS	-	Voice Notification System
W3SES	-	Waterford 3 Steam Electric Station
XFMR	-	Transformer
XFRMR	-	Transformer

II. OBJECTIVES

As a result of discussions between Waterford 3 staff, the Nuclear Regulatory Commission - Region IV (NRC), the Federal Emergency Management Agency - Region VI (FEMA), the Louisiana Radiation Protection Division (LRPD), the Louisiana Office of Emergency Preparedness (LOEP), St. Charles and St. John the Baptist Parishes, the following general objectives and guidelines have been developed for the 1995 Emergency Preparedness Exercise at the Waterford 3 Steam Electric Station, which is scheduled to be conducted on July 12, 1995.

A. FOR THE ENTERGY (LICENSEE) EMERGENCY RESPONSE ORGANIZATION:

1. Demonstrate proficiency in classifying the emergency condition. (B.2, D.1, D.2, I.1, I.2)

2. Demonstrate the ability to mobilize and activate the Technical Support Center (TSC) emergency response personnel. (B.1-B.5, B.7, E.2, F.1.e, H.1, H.4, N.1.b)

3. Demonstrate the ability to mobilize and activate the Operational Support Center (OSC) emergency response personnel. (B.1-B.5, B.7, E.2, F.1.e, H.1, H.4, N.1.b)

4. Demonstrate the ability to coordinate repair team activities between the OSC and -4 Control Point. (O.4.e)

5. Demonstrate the ability to mobilize and activate the Emergency Operations Facility (EOF) emergency response personnel. (B.1-B.5, B.7, E.2, F.1.e, H.2, H.4, N.1.b)

6. Demonstrate the ability to fully alert, mobilize and activate the Emergency News Center (ENC) emergency response personnel (including the Rumor Control Center). (E.2, F.1.e, G.3, G.4, H.4, N.1.b)

7. Demonstrate the ability to make notifications of emergency classifications and protective action recommendations to offsite agencies within the procedural time limits. (B.2, B.4, E.1-E.4, F.1, F.2, J.7, N.2.a)

8. Demonstrate the ability of the senior facility managers to establish and maintain command and control of their facilities throughout the exercise. (B.1-B.3, B.5)

9. Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations. (H.1, H.2, H.3, H.5, H.6, H.9)

II. OBJECTIVES (CONT'D)

10. Demonstrate adequate and effective use of emergency communications equipment and communications procedures and methods necessary to establish and maintain communications with:

    a) All Waterford 3 emergency response facilities. (E.2, F.1.d)

    b) Parish, State and Federal agencies. (C.1, E.4, F.1.a, F.1.b, F.1.c, N.2.A)

    c) Radiological Field Monitoring Teams. (F.1.d, H.6, H.12)

    d) In-plant emergency teams. (H.9)

    e) The selected offsite assembly area. (J.1)

    f) Local and industry emergency support organizations, as required. (E.4, F.1.a, F.2, H.6)

11. Demonstrate the ability to perform onsite and offsite radiological monitoring and assessments. (I.3, I.4, I.7-I.9, H.7, N.2.d)

12. Demonstrate the ability to perform the necessary offsite dose projection calculations to provide advance warning to Parish, State and Federal agencies. (E.3, E.4, H.12, I.3, I.4, I.6, I.8, I.9, I.10, J.7, N.2.d)

13. Demonstrate coordination of protective action decision making activities with NRC (if NRC participates) and Louisiana Radiation Protection Division in the Emergency Operations Facility. (J.3, J.6, J.7, K.1-K.3, K.5, K.6, N.2.a, N.2.d)

14. Demonstrate the following accident mitigation activities: effective accident analysis and accident mitigation decision making. (I.1, I.2)

15. Demonstrate the ability of the emergency organization to perform re-classification (downgrade) decision-making and to de-escalate emergency response activities, as necessary. (D.1, D.2, I.1, I.2)

16. Demonstrate the ability to perform a Protected Area evacuation and offsite assembly by evacuating non-essential personnel in the Protected Area to parking lots and sending a selected group of personnel to an offsite assembly area. (J.1-J.5)

17. Demonstrate the ability to perform accountability in the Protected Area after a site evacuation. (J.5)

18. Demonstrate the ability to perform continuous accountability activities for the onshift, onsite and nearsite emergency organizations. (J.5)

II. OBJECTIVES (CONT'D)

19. Demonstrate the ability to draw and analyze a plant liquid post accident sample using the Post Accident Sampling System (PASS) within the 3-hour required time limit. (I.2, N.2.e)

20. Demonstrate adequate security measures at each of the Waterford 3 emergency response facilities. (B.1, B.6, H.1, H.2)

21. Demonstrate the ability to conduct a post-exercise critique to determine areas requiring additional improvements. (N.4, N.5)

B. LOUISIANA RADIATION PROTECTION DIVISION

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations. (FEMA OBJECTIVE #2)

3. Demonstrate the capability to direct and control emergency operations. (FEMA OBJECTIVE #3)

4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5)

6. Demonstrate the appropriate use of equipment and facilities for determining field radiation measurements. (FEMA OBJECTIVE #6)

7. Demonstrate the capability to develop dose projections and protective action recommendations regarding evacuation and sheltering. (FEMA OBJECTIVE #7)

8. Demonstrate the appropriate use of equipment and procedures for the measurement of airborne radioiodine concentrations as low as 10^{-7} (.0000001) microcuries per cubic centimeter in the presence of noble gases and obtain samples of particulate activity in the airborne plume. (FEMA OBJECTIVE #8)

9. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public. (FEMA OBJECTIVE #14)

10. Demonstrate laboratory operations and procedures for measuring and analyzing samples. (FEMA OBJECTIVE #25) (NOTE 7)

II. OBJECTIVES (CONT'D)

C. LOUISIANA OFFICE OF EMERGENCY PREPAREDNESS (STATE EOC)

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations. (FEMA OBJECTIVE #2)

3. Demonstrate the capability to direct and control emergency operations. (FEMA OBJECTIVE #3)

4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

5. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public. (FEMA OBJECTIVE #14)

D. ST. CHARLES EOC

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations. (FEMA OBJECTIVE #2)

3. Demonstrate the capability to direct and control emergency operations. (FEMA OBJECTIVE #3)

4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5)

6. Demonstrate the capability to make timely and appropriate protective action decisions (PAD). (FEMA OBJECTIVE #9)

7. Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials. (FEMA OBJECTIVE #10)

II. OBJECTIVES (CONT'D)

8. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public. (FEMA OBJECTIVE #11)

9. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public. (FEMA OBJECTIVE #14)

10. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations. (FEMA OBJECTIVE #15)

11. Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone. (FEMA OBJECTIVE #16)

12. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas. (FEMA OBJECTIVE #17)

13. Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill. (FEMA OBJECTIVE #32) (NOTE 1)

14. Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill. (FEMA OBJECTIVE #33) (NOTE 2)

E. ST. JOHN THE BAPTIST EOC

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations. (FEMA OBJECTIVE #2)

3. Demonstrate the capability to direct and control emergency operations. (FEMA OBJECTIVE #3)

4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

5. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5)

6. Demonstrate the capability to make timely and appropriate protective action decisions (PAD). (FEMA OBJECTIVE #9)

II. OBJECTIVES (CONT'D)

7. Demonstrate the capability to promptly alert and notify the public within the 10-mile plume pathway emergency planning zone (EPZ) and disseminate instructional messages to the public on the basis of decisions by appropriate State or local officials. (FEMA OBJECTIVE #10)

8. Demonstrate the capability to coordinate the formulation and dissemination of accurate information and instructions to the public. (FEMA OBJECTIVE #11)

9. Demonstrate the capability and resources to implement potassium iodide (KI) protective actions for emergency workers, institutionalized individuals, and, if the State plan specifies, the general public. (FEMA OBJECTIVE #14)

10. Demonstrate the capability and resources necessary to implement appropriate protective actions for special populations. (FEMA OBJECTIVE #15)

11. Demonstrate the capability and resources necessary to implement protective actions for school children within the plume pathway emergency planning zone. (FEMA OBJECTIVE #16)

12. Demonstrate the organizational capability and resources necessary to control evacuation traffic flow and to control access to evacuated and sheltered areas. (FEMA OBJECTIVE #17)

13. Demonstrate the capability to carry out emergency response functions in an unannounced exercise or drill. (FEMA OBJECTIVE #32) (NOTE 1)

14. Demonstrate the capability to carry out emergency response functions during an off-hours exercise or drill. (FEMA OBJECTIVE #33) (NOTE 2)

F. EMERGENCY NEWS CENTER (ENC)

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the adequacy of facilities, equipment, displays, and other materials to support emergency operations. (FEMA OBJECTIVE #2)

3. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

4. Demonstrate the capability to coordinate the development and dissemination of clear, accurate, and timely information to the news media. (FEMA OBJECTIVE #12)

II. OBJECTIVES (CONT'D)

5. Demonstrate the capability to establish and operate rumor control in a coordinated and timely manner. (FEMA OBJECTIVE #13)

G. TANGIPAHOA PARISH EOC

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the adequacy of facilities, equipment, displays and other materials to support emergency operations. (FEMA OBJECTIVE #2)

3. Demonstrate the capability to direct and control emergency operations. (FEMA OBJECTIVE #3)

4. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

5. Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change. (FEMA OBJECTIVE #30)

H. SOUTHEASTERN LOUISIANA UNIVERSITY RECEPTION CENTER

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

3. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5) (NOTE 3)

4. Demonstrate the adequacy of procedures, facilities, equipment, and personnel for the radiological monitoring, decontamination, and registration of evacuees. (FEMA OBJECTIVE #18) (NOTE 4)

5. Demonstrate the adequacy of facilities, equipment, supplies, personnel, and procedures for congregate care of evacuees. (FEMA OBJECTIVE #19) (NOTE 5)

6. Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change. (FEMA OBJECTIVE #30) (NOTE 6)

II. OBJECTIVES (CONT'D)

I. SOUTH VACHERIE VFD DECONTAMINATION STATION

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

3. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5)

4. Demonstrate the adequacy of procedures for the monitoring and decontamination of emergency workers, equipment and vehicles. (FEMA OBJECTIVE #22)

5. Demonstrate the capability to maintain staffing on a continuous, 24-hour basis through an actual shift change. (FEMA OBJECTIVE #30)

J. OCHSNER FOUNDATION HOSPITAL

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

3. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5)

4. Demonstrate the adequacy of the equipment, procedures, supplies, and personnel of medical facilities responsible for treatment of contaminated, injured, or exposed individuals. (FEMA OBJECTIVE #21)

K. ST. CHARLES EMS

1. Demonstrate the capability to alert and fully mobilize personnel for both emergency facilities and field operations. Demonstrate the capability to activate and staff emergency facilities for emergency operations. (FEMA OBJECTIVE #1)

2. Demonstrate the capability to communicate with all appropriate emergency personnel at facilities and in the field. (FEMA OBJECTIVE #4)

II. OBJECTIVES (CONT'D)

3. Demonstrate the capability to continuously monitor and control radiation exposure to emergency workers. (FEMA OBJECTIVE #5)

4. Demonstrate the adequacy of vehicles, equipment, procedures, and personnel fo. transporting contaminated, injured, or exposed individuals. (FEMA OBJECTIVE #20)

OBJECTIVES NOTES

1. An unannounced drill will be conducted separate from the exercise during the week of July 10th for St. Charles Parish EOC staff and St. John the Baptist EOC staff to satisfy this objective.

2. An off-hours drill will be conducted separate from the exercise during the week of July 10th for St. Charles Parish EOC staff and St. John the Baptist Parish EOC staff to satisfy this objective.

3. This objective applies to the monitoring and decontamination staff only.

4. Several simulated contaminated persons and one simulated contaminated vehicle will be processed at this reception center. Two personnel monitoring teams and one vehicle monitoring team will be mobilized for each shift.

5. To minimize disruption to those institutions (principally schools) which normally provide congregate care, demonstration of the ability to mobilize congregate care resources will be made by American Red Cross personnel at the reception center through discussion.

6. Monitoring teams, decontamination teams, Red Cross personnel, registration personnel and facility management personnel will be subject to a shift change.

7. Air sample cartridge(s) and particulate filter(s), collected in the field by the field monitoring teams, will be transported to the laboratory, and only the particulate filter(s) will be analyzed in the laboratory (cartridges for iodine are read in the field). The results will be transmitted from the laboratory to the State's response team at the utility's Emergency Operations Facility (EOF).

III. GUIDELINES

To define the scope and extent of participation by organizations and "participants", the following guidelines are established in order to meet the objectives listed in Section II of this manual. The Annual Exercise will be performed using the Waterford 3 Control Room Simulator.

A. General Guidelines

1. The exercise will be conducted on July 12, 1995. Exercise "participants" will not possess prior knowledge of the exercise start time, and will follow normal routines for that day until mobilized as part of the emergency response.

2. The exercise will commence with a postulated condition necessitating the declaration of an Unusual Event and escalate through the emergency classifications to a General Emergency.

3. The scenario contains simulated radiological release conditions which will require consideration of protective actions for the general public.

4. Exercise participants will perform, as appropriate, radiological monitoring and dose assessment activities.

5. Radiological field monitoring teams will be dispatched in order to evaluate response time, communications and monitoring procedures.

6. The Emergency News Center (ENC) will be staffed and activated. Participation by members of the 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. If postulated accident conditions warrant evacuation of non-essential site personnel, a small number of pre-designated personnel will proceed to an offsite assembly area. All other non-essential personnel in the Protected Area will be assembled in station parking lots or accounted for. Once accountability procedures have been completed, assembled personnel will return to their normal work stations.

III. GUIDELINES (CONT'D)

> **NOTE**
>
> Care shall be taken to assure individuals who may overhear or observe exercise activities are not misled into believing that an actual emergency situation exists.

8. All emergency communications that are part of the exercise shall be clearly identified as part of the exercise. Verbal communications shall be initiated and closed by the statement "This is a drill". Communications forms which are transmitted via facsimile machine shall have the word "Drill" stamped on them prior to transmittal.

9. Methodology and assumptions related to the development of data for specific areas are provided with the data in Section VII of this manual.

10. Exercise participants will include the following emergency organizations:

    Waterford 3

    Onshift Emergency Organization (Control Room)

    Onsite Emergency Organization (TSC and OSC)

    Nearsite Emergency Organization (EOF)

    Louisiana Power & Light Company

    Offsite Emergency Organization (ENC)

    Entergy district offices and maintenance divisions will not participate in this exercise. Communications with these groups may be initiated but their response will be simulated.

    Offsite Organizations

    State of Louisiana

    Louisiana Radiation Protection Division
    Full participation. LRPD will staff positions in the Waterford 3 EOF and ENC.

    Louisiana Office of Emergency Preparedness
    Full participation.

III. GUIDELINES (CONT'D)

St. Charles Parish

Department of Emergency Preparedness
Full participation.

St. John the Baptist Parish

Office of Civil Defense
Full participation.

B. Safety Precautions

1. Personnel will not, in response to the postulated accident conditions, take any action which jeopardizes plant or personnel safety.

2. Valves, breakers, and controls shall not be manipulated in response to this exercise except as necessary to meet a specific exercise objective. Actual operation of valves, breakers and controls that may be required to meet an objective will be coordinated between the "drill" and "operating" Shift Supervisors.

3. In the event an actual emergency occurs during the conduct of this exercise, the drill Emergency Coordinator shall immediately contact the real Shift Supervisor and coordinate available resources to mitigate the emergency.

   - In the case of an actual fire report, the "operating shift" will provide the initial response.

   - In the case of an actual medical emergency, the "operating shift" will provide the initial response until relieved of that responsibility by the drill shift.

   - The drill clock and exercise activities can be stopped at the discretion of the drill Emergency Coordinator and the real Shift Supervisor until the actual emergency is assessed and/or under control.

   - Qualified drill participants and drill control team members can be directed to support the real Shift Supervisor in response to the actual emergency.

4. All personnel who enter an RCA will be radiation worker qualified.

5. Exercise personnel will observe all radiological controls. In the event the data presented in this exercise package indicates lower radiation levels than those actually found in the plant, actions for the actual (higher) readings will be followed. In such instances the Health Physics Controller and the Lead Controller will be notified.

III. GUIDELINES (CONT'D)

6. ALARA concepts will be observed during the course of the exercise. Activities associated with the performance of the exercise will not occur in areas where personnel will receive significant exposures.

C. Simulation Guidelines

> NOTE
>
> Simulated exercise events will be initiated as indicated in this exercise scenario package under the direction of the Lead Controller. 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 effect the timeline without prior approval.

1. Exercise participants are expected to carry out all responses to the postulated scenario events as if responding to a real emergency. Actions required by Plant Operating Procedures and Emergency Plan Implementing Procedures shall be carried out to the fullest extent possible, unless otherwise directed by the drill control team.

2. Since the exercise will be performed using the Waterford 3 Control Room Simulator, exercise plant parameter data will be obtained from the Simulator control panels and the Simulator SPDS CRTs. Radiological monitoring data will be simulated through the use of posted data sheets. The exercise participants must take the appropriate actions required to obtain the data prior to the initiation of data postings. Radiological data sheets will be posted in appropriate locations in the Simulator, TSC, EOF and -4 Control Point.

3. Portable fire extinguishers or other sealed canisters shall not have the seals broken or safety pins removed in response to the postulated scenario events, except when specifically required by instructions provided in this scenario package.

4. Exercise participants will be expected to obtain the proper tools and equipment necessary in responding to the scenario conditions in order to receive credit for their actions to mitigate the consequences of the simulated conditions.

5. The use of protective clothing, in the plant, <u>will not</u> be simulated by the exercise participants.

III. GUIDELINES (CONT'D)

6. To prevent unnecessarily alarming members of the general public, who may observe their activities, the use of protective clothing and respirators will be simulated by the radiological field monitoring teams.

7. SCBAs will be donned, as required by the scenario conditions, but, after initial fitting on the face, the masks may be removed.

8. The use of the Post Accident Sampling System (PASS) will be coordinated between the "drill" and "operating" Shift Supervisors.

9. No plant equipment will actually be tagged out in response to the scenario events. All necessary authorizations required by procedures are expected to be obtained prior to the simulation of the tag out.

10. Radiological postings as required by the simulated scenario radiation levels will not be simulated. The drill control team will insure that the postings are appropriately labeled to identify them as part of the drill.

11. Actual operation of the Whole Body Counter, or the Backup Whole Body Counter, will be simulated. Due to the number of Health Physics personnel assigned to the drill control team, sufficient personnel will not be available to support this activity.

12. If consideration is given to relocating the Primary Access Point (PAP) due to the simulated radiological conditions, this activity will be simulated.

13. Response to a fire is not an objective of this exercise. The staffing of the Emergency Fire Brigade will be simulated.

14. Onsite response to a medical emergency is not an objective of this exercise. The staffing of the Emergency First Aid Team will be simulated. The scenario events for the medical emergency portion of this exercise are provided in a separate document.

15. The activation of the Emergency Response Data System (ERDS) will be simulated. ERDS is not installed in the Simulator and there is no method at the present time to display drill data from the Simulator on the ERDS in the plant.

IV. NARRATIVE SUMMARY

The sequence of events hypothesized in this exercise package is provided to test the integrated emergency response capability of organizations established to protect the public should an actual emergency occur. In order to achieve a sequence of events that will mobilize these emergency organizations in fulfillment of the objectives of this exercise, the scenario must contain incredible plant situations, unlikely equipment failures and failure sequences. It is stressed that offsite personnel (i.e., the public) should not be misled into believing that an event causing the radiological consequences of this scenario could occur. The following is a summary of these events:

A. Initial Conditions

The plant has been operating at 100% power for the past 45 days and is at the beginning of core life.

The lower seal on Reactor Coolant Pump (RCP) 1B is leaking. The other seals on RCP 1B are functioning properly. There are no seal problems with any other RCPs.

The A/B charging pump is out of service for preventative maintenance (oil change). The pump was tagged out on the night shift and a PM crew came in at 06:00 to begin work. At the start of the drill, the oil has been drained and the crew is exiting the plant with the drained oil. They estimate the PM to be completed by 10:30 on July 12, 1995.

The A/B electrical bus is aligned to the B side.

The sky is cloudy and scattered thunderstorms are predicted for southeastern Louisiana. There is no precipitation present in the immediate area at the start of the exercise.

IV. NARRATIVE SUMMARY (CONT'D)

B. Summary of Events

The exercise will commence at 07:45.

At 08:00, a tornado strikes the backup meteorological tower causing severe damage. Lightning from the tornado results in the loss of the primary meteorological tower indications. A person in the General Support Building notifies the Control Room that a tornado has damaged the backup meteorological tower. When the Control Room attempts to obtain meteorological data they will identify that indication from both meteorological towers has been lost. The Shift Supervisor declares an Unusual Event based on Emergency Plan Implementing Instruction EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition D/UE/IV, "Tornado observed within the Owner Controlled Area." There are no Protective Action Recommendations (PARs) required at this time.

After checking with the National Weather Service and receiving indication that the tornado activity has passed out of the area, the Control Room should dispatch I&C maintenance personnel to investigate the failure of the meteorological towers. The I&C personnel will find that the backup meteorological tower has been damaged beyond repair. The power supply circuit breaker for the primary meteorological tower instrument cabinet (Circuit Breaker #7, EM-EBKR-PMT-1-7) has tripped. When the breaker is reset they will find that there is no output current power indications locally or remotely. They will determine that there is a loss of power to the current driver card rack due to a blown 1 amp fuse. The primary meteorological tower can be restored to service by closing the power supply breaker and replacing the damaged fuse. The repairs should take approximately 2 1/2 hours. Until the primary meteorological tower is restored, the meteorological data will be obtained from the National Weather Service.

At 09:00, a vibration alarm is received for RCP 1B. Immediately after receiving the vibration alarm, RCP 1B trips due to a shaft seizure. An automatic reactor trip signal is received, but the reactor trip does not occur. The Control Room staff will manually trip the reactor. The Shift Supervisor declares an Alert based on Emergency Plan Implementing Instruction EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition C/A/IV "RPS Automatic Trip failed." There are no Protective Action Recommendations (PARs) required at this time.

IV. NARRATIVE SUMMARY (CONT'D)

The Alert declaration results in the activation of the Technical Support Center (TSC), the Operational Support Center (OSC) and the Emergency News Center (ENC). The Emergency Operations Facility (EOF) will also be staffed at this time.

The RCP shaft seizure results in an increase in Reactor Coolant System (RCS) activity due to damage to the fuel cladding, as indicated by radiation monitor alarms. The Control Room should request Chemistry to draw an RCS sample. If Chemistry attempts to use the primary sample panel, radiation levels will dictate the use of the Post Accident Sampling System (PASS). When results of the PASS sample are received (PASS sampling normally requires 2 to 3 hours), they will verify that initial fuel cladding damage has occurred. If a decision is made not to use the PASS panel, the drill team will direct that a PASS sample be drawn and analyzed to meet an exercise objective.

At 09:40, the "A" charging pump trips on low oil pressure. The failure of the charging pump is due to a leaking fitting for the oil pump pressure relief valve. The relief valve fitting and tubing will need to be replaced to restart the charging pump. Due to the fuel damage, precautions must be taken to prevent overexposure of the repair team.

At 10:05, an instrument air leak occurs on the header in the B switchgear room. This leak is unisolable and instrument air pressure will drop to about 80 psi. At this pressure the instrument air to station air cross connect should open, but doesn't due to a failed pneumatic relay in the valve controller. Mechanical maintenance should be dispatched to repair the header leakage and I&C maintenance should be dispatched to repair the cross connect valve. Both failures need to be fixed to restore instrument air to normal operation and prevent loss of equipment due to low instrument air pressure.

At approximately 10:30, a large break Loss of Coolant Accident (LOCA) is initiated releasing radioactive primary coolant into the Containment. The Emergency Coordinator declares a Site Area Emergency based on Emergency Plan Implementing Instruction EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition B/SAE/I, "RCS leakage greater than <u>available Charging Pump capacity</u> (LOCA OR Steam Generator Tube Rupture)" OR Initiating Condition E/SAE/I, "Plant conditions exist that warrant precautionary activation of the TSC <u>and EOF</u> OR a <u>precautionary notification to offsite authorities</u> (Indicator #2: Failure of one fission product barrier and a challenge to another OR #3: Failure of two fission product barriers)". There are no Protective Action Recommendations (PARs) required at this time.

IV. NARRATIVE SUMMARY (CONT'D)

The Emergency Coordinator selects an offsite assembly area and announces a site evacuation. The Assembly Area Supervisor is dispatched and Security performs accountability in accordance with EP-002-190, Personnel Accountability. For the purposes of this exercise, the personnel in the Protected Area will evacuate to station parking lots and a small number of pre-designated personnel will evacuate to the selected offsite assembly area.

If not already performed, transfer of responsibilities for command and control, offsite dose assessment and communications from the TSC to the EOF will be initiated.

At approximately 11:00, indication of low pressure will be received for transformer SS XFMR 3A315-S due to a leaking weld. Electrical maintenance will be dispatched to repressurize the transformer. Mechanical maintenance should be requested to operate the crane to lower the gas bottle to the transformer in the west dry cooling tower area. Security should be requested to secure access to the cooling tower area while lowering the gas bottle. If the transformer is not pressurized, temperature will rise, eventually causing a loss of the transformer. This would result in the loss of the "A" dry and wet cooling tower fans.

Due to the size of the RCS leakage, Recirculation Actuation Signal (RAS) should occur approximately 1 1/2 hours after the initiation of RCS leakage. Approximately 20 minutes prior to the RAS, a 30 gallon per minute leak occurs on the inlet flange of the "A" HPSI pump suction relief valve SI-2034A. The operators should attempt to isolate the "A" HPSI pump to terminate the leakage. Since the HPSI pump suction isolation valve (SI-203A) is a locked open valve, the Operator must go the valve gallery, above the Safeguards Room, to unlock and close the valve. While closing SI-203A, the roll pin in the reach rod breaks and the valve cannot be closed remotely.

When Recirculation Actuation Signal (RAS) is initiated, the "B" Containment Spray Pump fails due to burnt motor windings. Electrical maintenance will be dispatched to investigate the problem and will determine that the motor needs to be replaced. Due to radiation levels in the Safeguards Room, the motor repairs will not be able to be performed.

IV. NARRATIVE SUMMARY (CONT'D)

Due to RCS temperature and pressure, about 15 minutes after the RAS is initiated, the water leaking from the HPSI suction line flashes to steam. The radioactive steam is transmitted via the RAB normal ventilation system to the plant stack resulting in a release of radioactivity to the environment. Any emergency response personnel in the Safeguards Room will have to leave due to high radiation levels. The Emergency Coordinator, or EOF Director, declares a General Emergency based on Emergency Plan Implementing Instruction EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition B/GE/II OR E/GE/I, "EC opinion that a loss of any two of the three fission product barriers has occurred AND plant conditions are such that a potential loss of the third barrier exists" OR Initiating Condition A/GE/I," Dose projection or radiological monitoring team indicates TEDE dose rate at EAB greater than or equal to <u>1000</u> MR/HR OR CDE Thyroid dose rate at EAB greater than or equal to <u>5000</u> MR/HR." Initial Protective Action Recommendations of evacuation of Protective Response Areas A1, B1, C1, D1 (2-mile radius), A2 and C2 (5 miles downwind) and sheltering for the remainder of the Protective Response Areas in the 10-mile EPZ are made.

When the "A" HPSI pump suction isolation valve SI-203A is closed, the release will be terminated and offsite dose rates will decrease. The emergency organization should discuss downgrading the emergency classification.

After the release has been terminated (or at the discretion of the Lead Controller), the exercise will be secured. Area Critiques will be held.

V. SEQUENCE OF EVENTS

TIME	EVENT	EXERCISE ACTIVITY
07:00 T= -0:45 CC-1	Exercise Controllers brief the Operations shift personnel in the Simulator. Exercise guidelines and initial conditions are discussed with the participants.	Following the briefing, the NAOs take their positions in the plant.
	NOTE: The remaining Shift personnel (HP, Maintenance, Chemistry, Security) are briefed at 07:15.	The plant has been operating at 100% power for the past 45 days and is at the beginning of core life. The lower seal on the 1B RCP is leaking.
CC-2		The A/B Charging pump is out of service for an oil change PM. The sky is cloudy and scattered thunderstorms are predicted for the area.
07:45 T= +0:00 CC-3	The Control Room participants are instructed to start the Exercise.	
08:00 T= +0:15 CC-4	Exercise continuation announcement.	
CC-5 CC-6 CC-7 CC-8 CC-9 CC-10	The Control Room receives a report of a tornado touching down in the Owner Controlled Area and damaging the backup meteorological tower.	A tornado has severely damaged the backup meteorological tower and lightning from the tornado damaged the primary meteorological tower. Investigation by I&C maintenance identifies that the backup tower is unable to be repaired and the primary meteorological tower instrumentation has no output current indications. This results in the loss of all meteorological data.
CC-11	Declaration of Unusual Event.	The Shift Supervisor declares an Unusual Event based on EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition D/UE/IV, "Tornado observed within the Owner Controlled Area." There are no PARs required for this declaration.

V. SEQUENCE OF EVENTS (CONT'D)

TIME	EVENT	EXERCISE ACTIVITY
		EP-001-010, Unusual Event is implemented. The emergency condition is announced to station personnel. State and local government agencies, Waterford 1&2 and the NRC are notified.
09:00 T= 1:15 CC-12 CC-13	RCP 1B shaft seizure.	A high vibration alarm is received for RCP 1B, immediately followed by a trip of the RCP. An automatic reactor trip signal is received, but the reactor does not trip. The Operators will manually trip the reactor.
CC-14 CC-15	Declaration of Alert.	The SS/EC declares an Alert based on EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition C/A/IV, "RPS Automatic Trip failed." There are no PARs required for this declaration.
CC-16 CC-17 CC-18		EP-001-020, Alert, is implemented. The emergency condition is announced to station personnel. The Onsite (TSC & OSC) and Nearsite (EOF) Emergency Organizations are mobilized. State and local government agencies, Waterford 1&2 and the NRC are notified. The SS will notify the shift Computer Technician to activate ERDS.
CC-19	PASS Sample initiated.	The RCP shaft seizure results in fuel damage increasing RCS activity. The Control Room will request an RCS sample. If Chemistry attempts to use the primary sample panel, radiation levels will indicate that the PASS panel should be used. **NOTE:** PASS sampling is an objective of this exercise. An actual PASS sample will be drawn and analyzed. Coordination with the actual Operating Shift will be required to line up the PASS panel for sampling.

V. SEQUENCE OF EVENTS (CONT'D)

TIME	EVENT	EXERCISE ACTIVITY
09:00 T= +1:15 CC-20	Exercise continuation announcement.	
09:40 T= +1:55 CC-21 CC-22 CC-23	"A" Charging pump failure.	The Control Room receives indication of the failure of the A charging pump. Upon investigation, maintenance personnel will find a leaking fitting for the oil pump pressure relief valve. The relief valve fitting will need to be replaced to return the charging pump to service.
10:00 T= +2:15 CC-24	Exercise continuation announcement.	
10:05 T= +2:20 CC-25 CC-26 CC-27 CC-28	Instrument Air leak.	An instrument air leak occurs on the piping in the B switchgear room. The leak is unisolable and must be repaired to prevent loss of equipment due to low instrument air pressure. At this time the instrument air to station air cross connect valve also fails to open. Mechanical and I&C maintenance will be dispatched to repair the instrument air problems.
10:30 T= +2:45 CC-29 CC-30	RCS leakage.	A large break LOCA occurs. (Source of the leak will be determined based on what the Simulator will model. The actual source is not important since radiation levels will prevent containment entry.)
CC-31 CC-32	Site Area Emergency declaration.	A Site Area Emergency is declared based on EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition B/SAE/I, "RCS leakage greater than available charging pump capacity" OR Initiating Condition E/SAE/I, "Plant conditions exist that warrant precautionary activation of the TSC and EOF OR a precautionary notification to offsite authorities". There are no offsite PARs required for this declaration. A site evacuation of non-essential personnel is implemented.

V. SEQUENCE OF EVENTS (CONT'D)

TIME	EVENT	EXERCISE ACTIVITY
		EP-001-030, Site Area Emergency is implemented. The Emergency Coordinator selects the appropriate offsite assembly area, notifies Security, dispatches the Assembly Area Supervisor and an HP technician to the selected assembly area and announces the Protected Area Evacuation. (The Emergency Coordinator may elect not to dispatch an HP technician to the offsite assembly area.)
		NOTE: For the purposes of this exercise, only the Protected Area will be evacuated to station parking lots. A small group of pre-designated persons will be evacuated to the assembly area to demonstrate evacuation and assembly area activities.
CC-33		State and local government agencies, Waterford 1&2 and the NRC are notified. Protective Actions taken by Waterford 3 are reported to Waterford 1&2 (for the purposes of this exercise, evacuation of Waterford 1&2 will not occur). If the Nearsite Emergency Organization (EOF) is not activated, the declaration of Site Area Emergency results in the activation of the EOF.
		EP-002-190, Personnel Accountability, and PS-016-103, Accountability of Personnel within the Protected Area During Emergencies, are implemented.
CC-34		When Security completes their accountability activities, a Missing Person report is sent to the TSC. When all personnel have been accounted for, personnel evacuated to station parking lots will be allowed to return to their normal work areas.

V. SEQUENCE OF EVENTS (CONT'D)

TIME	EVENT	EXERCISE ACTIVITY
CC-35		When assembly area activities are completed, the evacuated personnel should be directed to return to the plant. This objective will have been completed and the evacuation/assembly area portion of the Exercise will have been completed.
11:00 T= +3:15 CC-36	Exercise continuation announcement.	
CC-37 CC-38 CC-39 CC-40	Transformer 3A315-S failure	A gas leak is detected on transformer 3A315-S. The gas is used for cooling the transformer and must be fixed to prevent failure of the transformer. Loss of this transformer would result in the loss of the dry cooling tower fans. An electrical repair team will be dispatched to repair the leak and add gas to the transformer.
≅11:40 T≅ +3:55 CC-41 CC-42 CC-43 CC-44	HPSI suction line leak.	A 30 gpm leak occurs on the inlet flange of the A HPSI suction relief valve SI-2034A. The Control Room should attempt to line up and start the A/B HPSI pump. When they attempt to close the A HPSI suction isolation valve SI-203A, the valve reachrod freewheels, indicating damage to the reachrod. Mechanical maintenance will be dispatched to repair the reachrod.
≅12:00 T= +4:15 CC-45 CC-46	RAS initiation. "B" Containment Spray Pump Failure.	Approximately 1 1/2 hours after the RCS leakage occurs, the recirculation actuation signal (RAS) should be initiated. At this time, the water leaking from the A HPSI flashes to steam and results in a release of radioactivity to the atmosphere via the RAB ventilation system to the plant stack. Also at this time, the B Containment Spray Pump trips due to failure of the motor. Due to high radiation levels, personnel will not be able to enter the Safeguards Room to repair the motor.

V. SEQUENCE OF EVENTS (CONT'D)

TIME	EVENT	EXERCISE ACTIVITY
CC-47 CC-48	General Emergency declaration.	A General Emergency is declared based on EP-001-001, Recognition and Classification of Emergency Conditions, Initiating Condition B/GE/II OR E/GE/I, "EC opinion that a loss of any two of the three fission product barriers has occurred AND plant conditions are such that a potential loss of the third barrier exists" OR Initiating Condition A/GE/I, "Dose projection or radiological monitoring team indicates TEDE dose rate at EAB greater than or equal to 1000 MR/HR OR CDE Thyroid dose rate at EAB greater than or equal to 5000 MR/HR." EP-001-040, General Emergency is implemented. Protective Actions for offsite personnel are required in accordance with EP-002-052, Protective Action Guidelines. Expected protective actions are evacuation for protective response areas A1, B1, C1, D1, A2 and B2 and sheltering for all other protective response areas in the 10-mile EPZ. State and local government agencies, Waterford 1&2 and the NRC are notified.
12:00 T= +4:15 CC-49	Exercise continuation announcement.	
CC-50	Release terminated.	When the A HPSI suction isolation valve is closed, the release will be terminated and offsite dose rates will begin to decrease. At this time, the emergency organization should evaluate the emergency classification and discuss downgrading of the emergency.
13:00 T= +5:15 CC-51	Exercise continuation announcement.	

V. SEQUENCE OF EVENTS (CONT'D)

TIME	EVENT	EXERCISE ACTIVITY
CC-52	Exercise termination.	When the Lead Controller determines that the objectives for the exercise have been demonstrated, the exercise will be terminated and area critiques will be conducted.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 28B

TO: I&C REPAIR TEAM TIME: Upon arrival at SA-IA X-Conn.

FROM: REPAIR TEAM MONITOR T = N/A

*****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

*****

ANTICIPATED RESPONSE

1. The repair team finds that the pressure relay inside the controller has failed.
2. The repair team will replace the pressure relay.

COMMENTS

The failure of the pressure relay in the valve controller causes the controller to maintain pressure on the valve to keep it closed.

INSTRUCTIONS

Provide the information on this cue card when the repair team investigates the failure of the valve to open.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED AS SOON AS THE CROSS CONNECT VALVE IS REPAIRED AND OPENED.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 29A

TO: CRS/NPO TIME: 10:30

FROM: CONTROL ROOM CONTROLLER T = + 2:45

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

A large break LOCA is indicated

ALARMS:

CONTAINMENT WATER LEAKAGE HI-HI, on CP-8, Cabinet N, Window K20
CONTAINMENT WATER LEAKAGE HI, on CP-8, Cabinet N, Window L20
SIAS TRAIN A LOGIC INITIATED, on CP-2, Cabinet K, Window G19
SIAS TRAIN B LOGIC INITIATED, on CP-2, Cabinet K, Window G20
CIAS TRAIN A LOGIC INITIATED, on CP-2, Cabinet K, Window E19
CIAS TRAIN B LOGIC INITIATED, on CP-2, Cabinet K, Window E20

RADIATION MONITOR ALARMS:

AAS-018, ARM-IRE-5024S, PURGE ISOLATION B, HIGH ALARM
AAS-020, ARM-IRE-5025S, PURGE ISOLATION A, HIGH ALARM
AAS-023, ARM-IRE-5027S, PURGE ISOLATION B, HIGH ALARM
AAS-024, ARM-IRE-5026S, PURGE ISOLATION A, HIGH ALARM

PPS-311, PRM-IRE-0100Y, CONTAINMENT ATMOS. PIG PART., HIGH ALARM
PIS-312, PRM-IRE-0100Y, CONTAINMENT ATMOS. PIG IOD., HIGH ALARM
PGS-313, PRM-IRE-0100Y, CONT. ATMOS. PIG GAS, HIGH ALARM

AAA-557, ARM-IRE-5201, -4 RCB PERSONNEL AIR LOCK, ALERT

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 29B

TO: CRS/NPO TIME: 10:30

FROM: CONTROL ROOM CONTROLLER T = + 2:45

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. Since this leakage is greater than charging pump capacity, the Emergency Coordinator should declare a Site Area Emergency based on Initiating Condition B/SAE/I.
2. The EC will implement EP-001-030, Site Area Emergency.

COMMENTS

A large break LOCA is initiated on an RCS cold leg. The exact location of the leak is not important since the drill participants would not be able to determine this information without entering Containment. Due to high radiation levels, a Containment entry would not be possible during the course of this drill.

INSTRUCTIONS

This cue card will not need to be issued unless the Simulator fails and the indications are not available on the control panels.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 30A

TO: MECHANICAL/ELECTRICAL REPAIR TEAM TIME: 10:30

FROM: REPAIR TEAM MONITOR T = +2:45

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: If the control switch for "A" charging pump had been placed in the OFF position and then returned to the AUTO position after it tripped or the breaker has not been racked down to work on the pump, the charging pump will start when SIAS is initiated after the large break LOCA.

Contingency Action: Repair teams in the area will be provided indication that the A charging pump is running.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 30B

TO: MECHANICAL/ELECTRICAL REPAIR TEAM TIME: 10:30

FROM: REPAIR TEAM MONITOR T = +2:45

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. Repair teams in the area of the A charging pump will report that the charging pump is running.
2. The Control Room may choose to secure the A charging pump.
3. If the pump is not secured, it will run for approximately 30 minutes and then trip due to mechanical seizing of the shaft.
4. If the pump seizure occurs, the repair team will report this information to the Control Room and investigate the cause of the trip.
5. Mechanical repair team will find that the shaft will not turn and is very hot.
6. Electrical repair team will find that the motor tripped on overcurrent.

COMMENTS

It has been determined that, without lube oil, the charging pump can run for approximately 30 minutes. After this time it will trip due to a mechanical seizure of the shaft.

INSTRUCTIONS

The information on this cue card will be issued if the charging pump A control switch had been placed in the "AUTO" position after the initial trip.

DRILL TEAM COORDINATION IS VERY IMPORTANT TO ENSURE THAT THE STATUS OF THE A CHARGING PUMP IS MONITORED. THE SIMULATOR INSTRUCTOR BOOTH MUST BE INFORMED IF THE PUMP HAS BEEN TAGGED OUT FOR REPAIRS. THE OSC MONITORS MUST BE INFORMED IF THE CONTROL SWITCH IS IN THE AUTO POSITION.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 31A

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: Upon declaration of Site Area Emergency

FROM: TSC/EOF CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

Substitute for Step 5.1.5 of EP-001-030:

5.1.5 Sound the STATION ALARM (for at least 5 seconds) and make the following announcement(s):

5.1.5.1 ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
THIS IS A DRILL! THIS IS A DRILL!
A SITE AREA EMERGENCY WAS DECLARED AT (______) DUE TO (____).
ALL MEMBERS OF THE EMERGENCY ORGANIZATION FOR THIS EXERCISE REPORT TO YOUR STATIONS (<u>If necessary, announce routing instructions for EOF responders</u>). DUE TO PLANT CONDITIONS, ALL PERSONNEL IN THE PROTECTED AREA NOT PARTICIPATING IN THIS EXERCISE MUST EXIT THE PROTECTED AREA IMMEDIATELY. DESIGNATED EVACUEES PROCEED TO (______________________________). THERE WILL BE NO SMOKING, EATING OR DRINKING UNTIL FURTHER NOTICE. THE MAINTENANCE RADIO FREQUENCY IS DEDICATED FOR EMERGENCY USE ONLY!

THIS IS A DRILL! THIS IS A DRILL!

5.1.5.2 If there is a localized emergency (e.g., fire, radiological hazard outside of normally established RCAs), announce its type and location and instruct personnel to stand clear of this area (refer to FP-001-020 for fire).

5.1.5.3 Sound the STATION ALARM (for at least 5 seconds) and repeat the announcement(s) <u>at least two more times</u>, allowing sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 31B

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: Upon declaration of Site Area Emergency

FROM: TSC/EOF CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. EC/EOF Director determines the proper offsite assembly area.
2. Security is notified to prepare for the evacuation.
3. The Assembly Area Supervisor is dispatched to the selected offsite assembly area.
4. EC makes site announcement.
5. Non-essential Protected Area personnel exit the Protected Area to station parking lots.
6. Designated evacuees depart for the selected assembly area.
7. Security performs accountability and supplies a Missing Person Roster to the TSC.
8. There are no offsite PARs required for this declaration.

COMMENTS

1. A small number of pre-selected plant personnel have been designated to report to the announced offsite assembly area. All other non-essential personnel in the Protected Area will evacuate to station parking lots until accountability activities have been completed.
2. Since the EOF staffs at an Alert, it is possible that the EOF may be activated prior to the declaration of Site Area Emergency. In this case, the cue card will be provided to the EOF Director.

INSTRUCTIONS

Issue this cue card as the Emergency Coordinator/EOF Director prepares to announce the Site Area Emergency.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 32A

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: At the discretion of the Lead Controller

FROM: TSC/EOF CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: When it appears imminent that the classification will not be made in accordance with the design of this exercise package.

Contingency Action: Direct the Emergency Coordinator/EOF Director to classify the event as a Site Area Emergency.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 32B

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: At the discretion of the Lead Controller

FROM: TSC/EOF CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. Site Area Emergency declared.
2. EP-001-030, Site Area Emergency implemented.
3. Site evacuation prepared for and announced.

COMMENTS

INSTRUCTIONS

The purpose of this cue card is to maintain the scenario time line. This cue card will not be issued any earlier than 15 minutes after Site Area Emergency conditions are present.

If this cue card is issued, provide the Emergency Coordinator/EOF Director with the drill declaration announcement from the previous cue card.

This cue card is not to be issued without authorization from the Lead Controller.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 33A

TO:	EOF COMMUNICATOR	TIME:	When the EOF Communicators begin to activate the EOF Activated VNS Scenario
FROM:	EOF COMMUNICATIONS MONITOR	T =	N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

When the EOF Communicator begins to activate the VNS to initiate the EOF Activated Scenario, ensure that the DRILL scenario is used by substituting the "DRILL USE ONLY" copy of EP-002-015.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 33B

TO: EOF COMMUNICATOR

TIME: When the EOF Communicators begin to activate the EOF Activated VNS Scenario

FROM: EOF COMMUNICATIONS MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The EOF Communicator will initiate the DRILL EOF Activated Scenario.

COMMENTS

EP-002-015 is written for use in actual emergency situations and directs the Communicator to initiate the scenarios in the EMERGENCY mode which will not include the "THIS IS A DRILL" statement. By initiating the DRILL scenario, the "THIS IS A DRILL" statement will be provided to the personnel when they call in. This will eliminate any confusion as to whether or not an actual emergency has been declared.

INSTRUCTIONS

Since the EOF personnel staff the facility at an Alert, the EOF could be activated prior to the declaration of Site Area Emergency. The EOF Communications Monitor must note the staffing and activation of the EOF and issue the "DRILL USE ONLY" copy of EP-002-015 accordingly.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 34A

TO: TSC SUPERVISOR TIME: When Accountability is completed

FROM: TSC CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

THIS IS A DRILL! THIS IS A DRILL!

ACCOUNTABILITY ACTIVITIES HAVE BEEN COMPLETED. ALL PERSONNEL WHO EVACUATED THE PROTECTED AREA MAY RETURN TO THEIR NORMAL WORK AREAS.

Repeat the announcement once.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 34B

TO: TSC SUPERVISOR TIME: When Accountability is completed

FROM: TSC CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

Plant personnel who had evacuated the Protected Area to the station parking lots return to their work areas.

COMMENTS

INSTRUCTIONS

This cue card will be issued after all personnel identified on the Missing Person Roster have been accounted for.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 35A

TO: OSC SUPERVISOR

TIME: When Assembly Area Supervisor reports to OSC

FROM: OSC CONTROLLER

T = N/A

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

****

When the Assembly Area Supervisor has completed his objectives at the offsite assembly area, the OSC Supervisor will be directed to allow the personnel at the assembly area to return to the plant.

WATERFORD 3 ANNUAL EXERCISE
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 35B

TO: OSC SUPERVISOR

TIME: When Assembly Area Supervisor reports to OSC

FROM: OSC CONTROLLER

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The OSC Supervisor will advise the Assembly Area Supervisor to secure the assembly area activities and return to the plant with the exercise participants and monitors.

COMMENTS

The Assembly Area Supervisor reports to the site via the Assembly Area Supervisor radio frequency. This radio is located at the OSC HP Liaison area in the OSC.

INSTRUCTIONS

The OSC Controller, or OSC Monitor, will issue this cue card after determining that activities at the offsite assembly area (mustering evacuees, radiological survey of personnel and vehicles if required) have been completed.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 36A

TO: CONTROL ROOM DATA CLERK TIME: 11:00

FROM: CONTROL ROOM CONTROLLER T = + 3:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! THIS IS A DRILL!

THE 1995 ANNUAL EXERCISE IS IN PROGRESS. DO NOT USE THE PLANT PAGE FOR NON-EXERCISE RELATED ANNOUNCEMENTS.

DRILL TIME IS (Insert time from Simulator clock)

THIS IS A DRILL!

Do not repeat this announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 36B

TO: CONTROL ROOM DATA CLERK TIME: 11:00

FROM: CONTROL ROOM CONTROLLER T = + 3:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room Data Clerk will make the announcement.

COMMENTS

INSTRUCTIONS

The Control Room Data Clerk should ensure that this announcement does not interfere with announcements being made by the exercise participants.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 37A

TO: CRS/NPO TIME: 11:00

FROM: CONTROL ROOM CONTROLLER/MONITOR T = +3:15

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

Provide the following information:

ALARM

SS XFMR 3A315-S GRN/TEMP-PRESS HI/LO on CP-1, Cabinet D, Window S-4.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 37B

TO: CRS/NPO TIME: 11:00

FROM: CONTROL ROOM CONTROLLER/MONITOR T = +3:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room will enter OP-500-004, Annunciator Response Procedure Control Room Cabinet D.
2. An NAO will be dispatched to check transformer 3A315-S.

COMMENTS

INSTRUCTIONS

This Cue Card will not need to be issued unless the Simulator fails and the indications are not available on the control panels.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 38A

TO: NAO

TIME: Upon arrival at XFRMR

FROM: NAO MONITOR

T =

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

When an NAO arrives at the transformer, provide the following information:

Voltage readings at the MCC (The readings listed are normai readings so the monitor will not have to supply the readings):

A-B	480VAC
B-C	480VAC
C-A	480VAC
A-GND	277VAC
B-GND	277VAC
C-GND	277VAC

Transformer pressure indicator SSDIPI2537:

At 11:00 pressure will be	2.5 psi
At 11:15 pressure will be	2.0 psi
At 11:30 pressure will be	1.5 psi
At 11:45 pressure will be	1.0 psi
At 12:00 pressure will be	0.5 psi

Transformer temperature indicator SSDITIS2537:

At 11:00 temperature will be	65° F
At 11:15 temperature will be	75° F
At 11:30 temperature will be	85° F
At 11:45 temperature will be	95° F
At 12:00 temperature will be	110° F

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 38B

TO: NAO

TIME: Upon arrival at XFRMR

FROM: NAO MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. Upon checking indications, the NAO should check the transformer for signs of gas leakage.
2. A small weld leak will be found at the pipe fitting to the pressure gage.
3. The NAO will report conditions to the Control Room.
4. The Control Room should contact the TSC and request assistance from electrical maintenance.

COMMENTS

INSTRUCTIONS

Provide the information on this cue card when the NAO arrives at the transformer.

WATERFOPD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 39A

TO: ELECTRICAL REPAIR TEAM TIME: Upon arrival at XFRMR

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

Upon arrival at the transformer, the electrical personnel will receive the indications provided on the previous cue card.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 39B

TO: ELECTRICAL REPAIR TEAM TIME: Upon arrival at XFRMR

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The repair team should recommend adding gas (C2F6) per ME-004-085, Sealed, Dry-Type, Gas-Filled Station Service Transformers.
2. The repair team will need to obtain a bottle of gas, hand tools and a regulator.
3. Arrangements should be made to have a mechanical maintenance person operate the crane to get the gas bottle to the transformer in the west cooling tower area.
4. Security should be requested to post the west cooling tower area while handling the gas with the crane.
5. Gas will be added in accordance with the procedure.
6. When the gas bottle runs out, the repair team should notify the OSC to obtain additional gas.
7. The OSC should get a bottle out of the warehouse, but will request additional bottles be obtained.
8. The TSC should request the EOF to obtain additional gas.
9. Mechanical Maintenance may be requested to repair the weld.

COMMENTS

When adding gas, the transformer pressure will be simulated to equalize at about 3.0 psi due to the leak. This will lower the transformer temperature to approximately 85 degrees. The repair team will not be able to lower the temperature further until the leak is secured. Extra gas for the transformer is not easily obtained since it is freon based. The participants may need to arrange to get gas from ANO. There is not a supplier in the New Orleans area.

Procedure ME-004-085
CWD 2537

INSTRUCTIONS

1. After all items are obtained and the gas bottle is in the basket ready to be lowered into the cooling tower area, the participants will be instructed to simulate the remaining activities.
2. When adding gas at the transformer, the transformer pressure will increase to 3.0 psi then hold steady. This is indication that the gas bottle is empty.
3. **When the gas pressure exceeds 2.5 psi, notify the Simulator Operator to reset annunciator D1004.**

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 40A

TO: MECHANICAL REPAIR TEAM TIME: Upon arrival at 3A315-S XFMR

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: If mechanical maintenance is requested to repair the weld on the pressure gage for transformer 3A315-S.

Contingency Action: The mechanical repair team will find ice formation around the leaking fitting.

WATERFORD 3 ANNUAL EXERCISE
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 40B

TO: MECHANICAL REPAIR TEAM TIME: Upon arrival at 3A315-S XFMR

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The repair team will find that they cannot easily seal the leaking weld due to the ice formation.
2. The repair team will report the status to the OSC.
3. The TSC/EOF engineers may assess methods to stop the leak.

COMMENTS

1. Tape will not stick to the fitting due to the ice formation and there is not enough tubing exposed to install a clamp to stop the gas leakage.
2. If the repair team finds a way to seal the leakage, they will be allowed to implement their resolution to the problem.
3. Since this transformer supplies power to the "A" side dry and wet cooling tower fans, power must be maintained. This prevents repair to the weld until the plant is shut down and cooled down.

INSTRUCTIONS

Provide the information on this cue card when the mechanical repair team arrives at the transformer.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 41A

TO: CRS/NPO TIME: ≅ 11:40

FROM: CONTROL ROOM CONTROLLER/MONITOR T ≅ +3:55

****

THIS IS A DRILL.
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

ALARM

SAFEGUARD PUMPS AREA SUMP PUMP RUNNING, on CP-8, Panel M, Window N-10

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 41B

TO: CRS/NPO TIME: ≅ 11:40

FROM: CONTROL ROOM CONTROLLER/MONITOR T ≅ +3:55

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

Upon receiving the alarm, the Control Room will dispatch an NAO to investigate why the sump pump is running and check for leaks.

COMMENTS

The sump pump running alarm is due to a 30 gpm leak on the inlet flange for the A HPSI pump suction relief valve SI-2034A

INSTRUCTIONS

The information on this cue card will not need to be issued unless the Simulator fails and the indications are not available on the control panels.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 42A

TO: NAO

TIME: Upon arrival in the A Safeguards Room

FROM: NAO MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

There is water leaking from the inlet flange of the A HPSI pump suction relief valve (SI-2034A).

WATERFORD 3 ANNUAL EXERCISE
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 42B

TO: NAO

TIME: Upon arrival in the A Safeguards Room

FROM: NAO MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The NAO will report the leakage to the Control Room.
2. The Control Room may decide to secure the A HPSI pump and lineup the A/B HPSI pump.
3. The NAO will go to the valve gallery to close the A HPSI pump suction isolation valve (SI-203A) to secure the leakage.
4. When the NAO attempts to close SI-203A, the reachrod won't move at first and then will freewheel indicating a problem with the reachrod.
5. The Control Room should request a repair team to repair the reachrod.

COMMENTS

1. The water leaking from the inlet flange is coming from the RWSP. The Control Room should realize that RAS is imminent and will want to close the suction valve before the suction shifts to the Safety Injection (SI) sump.
2. The HPSI pump suction valve cannot be closed from the Safeguards Room since it is locked at the reachrod in the valve gallery.
3. **A pin in the reachrod mechanism fails causing the reachrod to freewheel. The NAO will hear an audible crack when the pin breaks.**
4. After RAS is initiated, the radiation levels in the Safeguards Room will increase significantly and the room will be inaccessible.
5. If an NAO remains in the Safeguards Room, and is there when RAS occurs, he/she will be contaminated.

INSTRUCTIONS

1. Provide the information on this cue card when the NAO arrives in the Safeguards Room.
2. The following mock-ups will be used:
   a) Audio/visual aids will be used to indicate water leakage in the Safeguards Room.
   b) A mock-up of the valve reachrod mechanism will be provided in the valve gallery.
3. **THE SIMULATOR OPERATOR MUST BE INFORMED WHEN THE NAO LEAVES THE SAFEGUARDS ROOM TO GO TO THE VALVE GALLERY. THIS IS THE CUE TO INITIATE RAS.**

WATERFORD 3 ANNUAL EXERCISE
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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 43A

TO: NAO/HP TIME: RAS

FROM: NAO MONITOR/HP MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: If an NAO remains in the A Safeguards Room after the initial assessment of HPSI leakage and is in the room when RAS is initiated.

Contingency Action: The person's dosimetry will alarm and/or the HP will receive indication of increased radiation levels.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 43B

TO: NAO/HP TIME: RAS

FROM: NAO MONITOR/HP MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The NAO will leave the Safeguards Room and report to HP.
HP will survey for contamination and attempt to decontaminate the NAO.
HP may arrange for a bioassay to check for internal exposure.

COMMENTS

When RAS is initiated, the HPSI pump suction shifts from the RWSP to the SI sump, which is highly contaminated. The leakage from HPSI pump suction will flash to steam and radiation levels will significantly increase in the Safeguards Room. As a result, anyone in the room will become contaminated and HP will need to take appropriate measures.

INSTRUCTIONS

The NAO and/or HP will be given indication of increased radiation levels. The actual levels will be determined by the HP monitor based on the proximity to the leak and the time the personnel remain in the room. The Survey maps in the In-Plant Health Physics Section of this package will be used in determining the amount of contamination received.

IT IS VERY IMPORTANT THAT THE SIMULATOR OPERATOR KEEP THE DRILL MONITORS INFORMED OF THE IMPENDING RAS INITIATION TO ENABLE THEM TO DETERMINE THE NEED FOR ISSUING THIS CUE CARD.

THE DRILL MONITORS SHOULD ESTABLISH RADIO/TELEPHONE CONTACT WITH THE SIMULATOR OPERATOR DURING THIS EVOLUTION.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 44A

TO: MECHANICAL REPAIR TEAM TIME: Upon arrival at valve gallery

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

The HPS! suction valve (SI-203A) reachrod freewheels when turned.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 44B

TO: MECHANICAL REPAIR TEAM TIME: Upon arrival at valve gallery

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The repair team will remove the cover and find that the pin in the reachrod has broken.
2. The reachrod pin will be replaced.
3. When the pin is replaced, the HPSI pump suction valve can be closed and the release will be secured.

COMMENTS

The radiation levels in the Safeguards Room will be too high to attempt to close the valve locally. The reachrod must be repaired to secure the leak. The radiation levels in the valve gallery will also be above normal, but, with proper precautions, the repair team will be able to perform the repairs.

INSTRUCTIONS

A mock-up of the reachrod mechanism is provided in the valve gallery. The repair team will be required to replace the pin in the mock-up.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 45A

TO: CRS/NPO/PAP SECURITY TIME: ≅ 12:00

FROM: CONTROL ROOM CONTROLLER/MONITOR/ PAP MONITOR T ≅ +4:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following indication:

LPSI pumps A&B indicate they have stopped.
Valves SI-602A and SI-602B indicate OPEN.

ALARMS

RAS TRAIN A LOGIC INITIATED, on CP-2, Cabinet K, Window K19
RAS TRAIN B LOGIC INITIATED, on CP-2, Cabinet K, Window K20
SI SUMP WATER DETECTED on CP-8, Cabinet N, Window C20
CNTMT SPRAY PUMP B TRIP/TROUBLE on CP-8, Cabinet N, Window B14
Computer Point D42500, CSP B BKR SWGR 3B3-S-5, "OFF"
Computer Point D42502, CSP B MTR OVERLOAD
Computer Point A42500, CSP B MTR AMPS, "0"

RADIATION MONITORING SYSTEM ALARMS **

EPS-131, PRM-IRE-0100.1S, Plant Stack A Particulate Channel, HIGH
EIS-132, PRM-IRE-0100.1S, Plant Stack A Iodine Channel, HIGH
EGS-133, PRM-IRE-0100.1S, Plant Stack A Gas Channel, HIGH
EPS-141, PRM-IRE-0100.2S, Plant Stack B Particulate Channel, HIGH
EIS-142, PRM-IRE-0100.2S, Plant Stack B Iodine Channel, HIGH
EGS-143, PRM-IRE-0100.2S, Plant Stack B Gas Channel, HIGH
EGG-514, PRM-IRE-0110, Plant Stack WRGM Low Range, HIGH
EGG-515, PRM-IRE-0110, Plant Stack WRGM Mid Range, HIGH
EGG-517, PRM-IRE-0110, Plant Stack WRGM Effluent, HIGH
Portal Monitors and Frisker at the PAP into ALARM

** NOTE: Many RMS alarms would be received at this time. Only key alarms are listed.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 45B

TO: CRS/NPO/PAP SECURITY TIME: ≅ 12:00

FROM: CONTROL ROOM CONTROLLER/MONITOR/ PAP MONITOR T = +4:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room should announce the initiation of RAS.
2. The Control Room will enter OP-500-012, Annunciator Response Procedure Cabinet N.
3. The Control Room should dispatch an NAO to investigate the loss of the B Containment Spray Pump at the breaker.
4. The Control Room should request an OSC repair team to investigate the B Containment Spray Pump.
5. A General Emergency should be declared and initial protective action recommendations made of evacuation of the 2 mile radius, 5 miles downwind and sheltering for all other protective response areas.
6. EP-001-040, General Emergency and EP-002-052, Protective Action Guidelines are implemented.

COMMENTS

1. The initiation of RAS is indicated. When RAS is initiated, the water leaking from the A HPSI pump will flash to steam. The activity will be picked up by the ventilation system and go out through the stack resulting in a release of radioactivity to the atmosphere.
2. The B Containment Spray Pump also fails at this time. This has been included in the scenario to prevent the participants from closing valve SI-602A to secure the release. Shutting SI-602A would secure the A safety train (HPSI, LPSI and Containment Spray). Due to the plant conditions, this would not be desirable.

INSTRUCTIONS

The information on this cue card will not need to be issued unless the Simulator fails and the indications are not available on the control panels.

The Security Monitor at the PAP will inform PAP Security personnel that the Portal Monitors and frisker are in alarm.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 46A

TO: NAO/ELECTRICAL REPAIR TEAM TIME: Upon Arrival at CSP B Breaker

FROM: NAO MONITOR/REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

Containment Spray Pump B breaker is OPEN.

The following local indications are observed at the breaker:

CS EREL3B-5F (74/HR relay) is picked up.
CS EREL3B-5A (Overcurrent relay Phase A) flag on inst unit (upper right)
CS EREL3B-5C (Overcurrent relay Phase C) flag on inst unit (upper right)

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 46B

TO: NAO/ELECTRICAL REPAIR TEAM TIME: Upon Arrival at CSP B Breaker

FROM: NAO MONITOR/REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room will be notified of the indications at the breaker.
2. If requested to take a reading on the motor, the electrical repair team will receive the following indications:

Phase-to-Phase resistance	1.4 OHMS (Phase A to B) 1.4 OHMS (Phase B to C) Infinite (Phase C to A)
Phase to Ground	0 OHMS

COMMENTS

The B Containment Spray Pump motor is burnt and must be replaced to restore the pump to service. Due to the radiation levels in the B Safeguards Room, no work can be done on the pump at this time.

INSTRUCTIONS

If readings are requested, the breaker will be racked down. If this occurs, ensure the Simulator Instructor Booth is informed so that the control switch indications will be displayed as dark.
IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 47A

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: At General Emergency declaration

FROM: TSC/EOF CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Substitute for Step 5.1.2 of EP-001-040:

5.1.2 Sound the STATION ALARM (for at least 5 seconds) and make the following announcement(s):

5.1.2.1 ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!

THIS IS A DRILL! THIS IS A DRILL!
A GENERAL EMERGENCY WAS DECLARED AT (_________) DUE TO (____). THERE WILL BE NO SMOKING, EATING OR DRINKING UNTIL FURTHER NOTICE. THE MAINTENANCE RADIO FREQUENCY IS NOW DEDICATED FOR EMERGENCY USE ONLY.

5.1.2.2 If there is a localized emergency (e.g., fire, radiological hazard outside of normally established RCAs), announce its type and location and instruct personnel to stand clear of this area (refer to FP-001-020 for fire).

5.1.2.3 Sound the STATION ALARM (for at least 5 seconds) and repeat the announcement(s) at least two more times, allowing sufficient time for personnel who may be in high noise areas to reach a location where they can hear the announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 47B

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: At General Emergency declaration

FROM: TSC/EOF CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The exercise announcement will be substituted for the announcement in EP-001-040, General Emergency.

COMMENTS

INSTRUCTIONS

The TSC or EOF Controller will provide this cue card to the EC/EOF Director when they are preparing to make the General Emergency announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 48A

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: At the discretion of the Lead Controller

FROM: TSC/EOF CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: When it appears imminent that the classification will not be made in accordance with the design of this exercise package.

Contingency Action: Direct the Emergency Coordinator/EOF Director to classify the event as a General Emergency.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 48B

TO: EMERGENCY COORDINATOR/EOF DIRECTOR TIME: At the discretion of the Lead Controller

FROM: TSC/EOF CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. General Emergency declared.
2. EP-001-040, General Emergency implemented.
3. EP-002-052, Protective Action Guidelines implemented.

COMMENTS

INSTRUCTIONS

If this cue card is issued, provide the Emergency Coordinator/EOF Director with the General Emergency announcement from the previous cue card.

The purpose of this cue card is to maintain the scenario time line. This cue card will not be issued any earlier than 15 minutes after General Emergency conditions are present.

This cue card is not to be issued without authorization from the Lead Controller.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 49A

TO: CONTROL ROOM DATA CLERK TIME: 12:00

FROM: CONTROL ROOM CONTROLLER T = + 4:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! THIS IS A DRILL!

THE 1995 ANNUAL EXERCISE IS IN PROGRESS. DO NOT USE THE PLANT PAGE FOR NON-EXERCISE RELATED ANNOUNCEMENTS.

DRILL TIME IS (Insert time from Simulator clock)

THIS IS A DRILL!

Do not repeat this announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 49B

TO: CONTROL ROOM DATA CLERK TIME: 12:00

FROM: CONTROL ROOM CONTROLLER T = + 4:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room Data Çlerk will make the announcement.

COMMENTS

INSTRUCTIONS

The Control Room Data Clerk should ensure that this announcement does not interfere with announcements being made by the exercise participants.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 50A

TO: CONTROLLERS/MONITORS TIME: When HPSI pump suction isolation valve is closed

FROM: CONTROLLERS/MONITORS T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

This cue card is for the information of the drill control team.

When the A HPSI suction isolation valve is closed, the release will be secured and dose rates in the field will begin to decrease. Since this activity is dependent upon participant actions, the data package has been set up to allow for the release to continue until the valve has been closed. At this point, the drill team will need to shift to the data indicating the release has been secured.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 50B

TO: CONTROLLERS/MONITORS

TIME: When HPSI pump suction isolation valve is closed

FROM: CONTROLLERS/MONITORS

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The data team, HP monitors and field team monitors will be notified to begin issuing the section of the data package indicating the termination of the release.

COMMENTS

INSTRUCTIONS

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 51A

TO: CONTROL ROOM DATA CLERK TIME: 13:00

FROM: CONTROL ROOM CONTROLLER T = + 5:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! THIS IS A DRILL!

THE 1995 ANNUAL EXERCISE IS IN PROGRESS. DO NOT USE THE PLANT PAGE FOR NON-EXERCISE RELATED ANNOUNCEMENTS.

DRILL TIME IS (Insert time from Simulator clock)

THIS IS A DRILL!

Do not repeat this announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 51B

TO: CONTROL ROOM DATA CLERK TIME: 13:00

FROM: CONTROL ROOM CONTROLLER T = + 5:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room Data Clerk will make the announcement.

COMMENTS

INSTRUCTIONS

The Control Room Data Clerk should ensure that this announcement does not interfere with announcements being made by the exercise participants.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 52A

TO: EOF DIRECTOR

TIME: At the discretion of the Lead Controller

FROM: EOF CONTROLLER

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!

THE WATERFORD 3 1995 ANNUAL EXERCISE HAS BEEN COMPLETED.

COMMENCE AREA CRITIQUES.

Repeat announcement once.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 52B

TO: EOF DIRECTOR

TIME: At the discretion of the Lead Controller

FROM: EOF CONTROLLER

T = N/A

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. EOF Director announces the termination of the Exercise via plant page.
2. Documentation in each area will be collected and provided to the Drill Control Team.
3. Areas/Facilities will be restored to normal.
4. Area Critiques will be conducted with the participants in each area.
5. Drill Controllers will pass out attendance sheets, if not already completed.
6. Drill Controllers will pass out Drill/Exercise Participant Comment Sheets.

COMMENTS

1. The Lead Controller will coordinate the termination of the exercise with the LRPD Controller and the ENC Controller to determine if exercise objectives have been demonstrated.

INSTRUCTIONS

This cue card will be issued when the Lead Controller has determined that the objectives for this portion of the exercise have been sufficiently demonstrated.

VI. CUE CARDS

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 1A

TO: SHIFT SUPERVISOR TIME: 07:00

FROM: CONTROL ROOM CONTROLLER T = - 0:45

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

INITIAL PLANT CONDITIONS:

The plant has been operating for the past 45 days at 100% power and is at the beginning of core life.

The lower seal on Reactor Coolant Pump (RCP) 1B is leaking. The "RCP 1B CONTROLLED BLEEDOFF TEMP HI" alarm is lit on CP-2, Cabinet H, Window F6. Step #3 in section E_1 of OP-901-130, Reactor Coolant Pump Malfunction, has been completed.

The A/B charging pump is out of service for preventative maintenance (oil change). Work began at 06:00 this morning. The PM is estimated to be completed by 10:30 on July 12, 1995.

The A/B electrical bus is aligned to the B side.

The sky is cloudy and scattered thunderstorms are predicted for southeastern Louisiana. There is no precipitation present in the immediate area at this time.

CHEMISTRY:

$100/\bar{E}$ (E-BAR) = 240.38

Isotope	Activity (uCi/cc)	Isotope	Activity (uCi/cc)	Isotope	Activity (uCi/cc)
Gross Activity	8.86E-2 uCi/ml	DEI-131	2.10E-3	Boron	1204 ppm
Hydrogen	35 cc/Kg	Dis. Oxygen	< 0.001	pH	6.3
Lithium	2.01 ppm	I-131	9.27E-4	I-132	5.00E-3
I-133	2.28E-3	I-134	6.60E-3	I-135	3.19E-3
H-3	4.26E-1	Mn-56	7.15E-4	Rb-88	4.99E-3
Kr-85m	8.51E-4	Co-58	1.17E-3	Cs-134	8.71E-4
Cs-137	4.41E-4	Xe-133	2.52E-2	Xe-135m	4.95E-4
Xe-135	7.67E-3	Xe-138	3.44E-3		

Steam Generators: Gross Activity < LLD ; Tritium < LLD

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 1B

TO: SHIFT SUPERVISOR TIME: 07:00

FROM: CONTROL ROOM CONTROLLER T = - 0:45

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

Shift personnel review the information provided and look over the Simulator panels.

COMMENTS

The Lead Controller will brief the "Operating Shift" regarding the applicable information below and will ensure the SS understands the restriction on plant page usage is not intended to apply to the Operating Shift. This briefing may be held on the day of the exercise or the preceding day.

INSTRUCTIONS

1. Discuss the shift turnover package material with the participants.
2. Review the Guidelines in Section III.
3. Brief the "Exercise Shift Supervisor" on actions that will be taken in the event of an actual emergency.
   - Emergency fire responsibilities will be handled by the "Operating Shift."
   - Medical emergency responsibilities will be handled by the "Exercise EFAT". Control of the medical emergency will be handled by the "Operating Shift" until the responsibility is assumed by the TSC.
4. Discuss methods of exercise control that will be necessary due to operating from the Simulator (Admin. NPO).
5. To contact Pine Bluff or Southern Control, call extension 6059.
6. If the exercise runs past lunch, relaxation of any restrictions on eating or drinking will be coordinated between the Facility Manager and the Facility Controller. After a designated lunch period, any prior restrictions will again be enforced.
7. The Lead Controller will ensure the Chemistry technicians, HP technicians and maintenance personnel are briefed.
8. The NAO Monitors should have the Exercise NAOs perform a radio check on the operations and maintenance frequencies prior to leaving the Training Center to verify the ability to communicate with the Simulator.
9. A shift briefing for the HP, Chemistry, Maintenance and Security shift personnel will be provided between 07:15 and 07:30.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 2A

TO: MECHANICAL MAINTENANCE PM CREW TIME: 07:15

FROM: MECHANICAL REPAIR TEAM MONITOR T = - 0:30

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

The A/B charging pump is out of service for an oil change PM. The oil is drained, new oil has been drawn out of the warehouse and is in the Service Building Mechanical Maintenance shop.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 2B

TO: MECHANICAL MAINTENANCE PM CREW TIME: 07:15

FROM: MECHANICAL REPAIR TEAM MONITOR T = - 0:30

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The repair team should review the work package and prepare to obtain new oil to refill the charging pump.
2. When the repair team completes the PM, they should sign off on the package and coordinate with Operations (OSC if activated) to have the tags cleared and place the pump in service.

COMMENTS

The A/B charging pump was tagged out on the night shift. The crew is simulated to have come in at 06:00 and started the work. The oil has been drained. At the beginning of the drill, the crew is in the shop. The new oil has been drawn out of the warehouse and is located in the Service Building Mechanical Maintenance shop. The crew will have to adjust the cross hairs and add the new oil to complete the work package. A partially completed work package indicates the work remaining.

INSTRUCTIONS

1. Provide the partially completed work package to the maintenance crew in the shop and review the conditions.
2. Brief the maintenance crew on the initial conditions and exercise guidelines.
3. Direct the crew to resume work on the charging pump at 07:45. They will be reporting to the Control Room until such time that the OSC is activated.
4. Empty oil cans are staged in the shop as a drill mock-up to simulate the new oil which had been drawn out of the warehouse at the beginning of the task.
5. The crew will be required to obtain the empty oil cans (simulated to be full) from the shop. They will take the empty cans to the charging pump and simulate adding the oil.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 3A

TO: SHIFT SUPERVISOR TIME: 07:45

FROM: CONTROL ROOM CONTROLLER T = + 0:00

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

The Simulator is in "RUN". The Exercise has begun.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 3B

TO: SHIFT SUPERVISOR TIME: 07:45

FROM: CONTROL ROOM CONTROLLER T = + 0:00

THIS IS A DRILL.
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

The Control Room staff takes control of the Simulator.

COMMENTS

INSTRUCTIONS

Provide the information on this cue card to the Control Room personnel at 07:45.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 4A

TO: CONTROL ROOM DATA CLERK TIME: 08:00

FROM: CONTROL ROOM CONTROLLER T = T= +0:15

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! THIS IS A DRILL!

THE 1995 ANNUAL EXERCISE IS IN PROGRESS. DO NOT USE THE PLANT PAGE FOR NON-EXERCISE RELATED ANNOUNCEMENTS.

DRILL TIME IS (Insert time from Simulator clock).

THIS IS A DRILL!

Do not repeat this announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 4B

TO: CONTROL ROOM DATA CLERK TIME: 08:00

FROM: CONTROL ROOM CONTROLLER T = T= +0:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room Data Clerk will make the announcement.

COMMENTS

INSTRUCTIONS

The Control Room Data Clerk should ensure that this announcement does not interfere with announcements being made by the exercise participants.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 5A

TO: SS/CRS TIME: 08:00

FROM: LEAD CONTROLLER T = T= +0:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

The Control Room receives the following information on the 4500 emergency telephone:

"This is Joe Employee in the GSB. I just saw a tornado strike one of the met towers. The tower is laying in the field next to the plant access road. It looked like lightning struck the other met tower. The tornado is now on the levee and moving across the river."

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 5B

TO: SS/CRS TIME: 08:00

FROM: LEAD CONTROLLER T = T= +0:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room staff will implement OP-901-521, Severe Weather and Flooding.
2. The Control Room will direct Security to secure all exterior hatches and doors.
3. The SS will implement EP-001-001 and declare an Unusual Event based on IC D/UE/:V.
4. The SS implements EP-001-010, Unusual Event and announces the emergency to site personnel.
5. Notifications are made to offsite agencies.
6. Once the tornado has been reported to have cleared the area, an NAO and/or I&C maintenance will be dispatched to inspect the damage to the meteorological towers.

COMMENTS

1. The tornado has damaged both meteorological towers. If the Control Room attempts to call up the METDATA computer mimic, they will have no indication of instantaneous meteorological data. As a result, meteorological data must be obtained from the National Weather Service until repairs are made to the primary tower.
2. The Control Room may wait until they receive information from the NWS that the danger of tornado activity in the area has passed prior to dispatching personnel to inspect the damage.

INSTRUCTIONS

1. The Lead Controller will provide the information on this cue card by dialing extension 4500.

2. Ensure the Drill Continuation announcement from the previous cue card is in progress or has been completed prior to calling the Control Room.

3. The meteorological data will be posted until the power supply problem is corrected and this data will be able to be obtained from Simulator SPDS.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 6A

TO: SECURITY SHIFT SUPERVISOR TIME: 08:00

FROM: SECURITY CONTROLLER/MONITOR T = + 0:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

An alarm is received on the weather alert radio in the Security office.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 6B

TO: SECURITY SHIFT SUPERVISOR TIME: 08:00

FROM: SECURITY CONTROLLER/MONITOR T = + 0:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. Security will check the radio for messages from the NWS.
2. Security will report the status of the message received to the Control Room.

COMMENTS

1. The message from the NWS will indicate that a tornado warning has been declared for St. Charles, St. John the Baptist and Jefferson Parishes due to the sighting of a tornado near the Waterford 3 power plant.

2. Approximately 5 minutes after the initial report, a message will be received indicating that the NWS has changed to a tornado watch and the tornado has moved out of the area. (See Cue Card #7.)

INSTRUCTIONS

1. A tape recording of the weather radio alarm and message from the NWS is provided. The Controller/Monitor will play the message just following the exercise continuation announcement.
2. Approximately 5 minutes after providing the initial report from the NWS, the Controller/Monitor will play the recording that the NWS has changed to a tornado watch. (See Cue Card #7.)
3. Ensure that Security personnel report the information to the Simulator on extension 4500.

WATERFORD 3 ANNUAL EXERCISE
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DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 7A

TO: SECURITY SHIFT SUPERVISOR TIME: ~08:05

FROM: SECURITY CONTROLLER/MONITOR T = +0:20

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Approximately 5 minutes after the initial weather radio information, provide the following information:

A weather radio alert signal is received.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 7B

TO: SECURITY SHIFT SUPERVISOR TIME: ~08:05

FROM: SECURITY CONTROLLER/MONITOR T = +0:20

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. Security will check the radio for messages from the NWS.
2. Security will report the status of the message received to the Control Room.

COMMENTS

1. The message from the NWS will indicate that a the NWS has changed to a tornado watch for St. Charles and St. John the Baptist Parishes and the tornado has moved out of the area.
2. It is recognized that the time interval of 5 minutes between NWS messages is probably not realistic. The second message is provided for Control Room participants to feel more comfortable dispatching personnel to the meteorological towers in order to keep repair activities on schedule.

INSTRUCTIONS

1. A tape recording of the weather radio alarm and message from the NWS is provided. The Controller/Monitor will play the message approximately 5 minutes after providing the initial report from the NWS.
2. Insure that Security personnel report the information to the Simulator on extension 4500.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 8A

TO: CONTROL ROOM STAFF

TIME: When CR personnel call the NWS

FROM: CR COMMUNICATIONS MONITOR

T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

When the Control Room personnel call the National Weather Service (NWS), provide the weather report information from Meteorological Data Section of this package.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 8B

TO: CONTROL ROOM STAFF TIME: When CR personnel call the NWS

FROM: CR COMMUNICATIONS MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room staff will use the NWS information to complete the Notification Message Form.

COMMENTS

Due to the loss of both meteorological towers, the Control Room personnel will not have indication of met data from the plant computer (this will be indicated by posted data sheets). They will have to call the NWS to obtain met data. This data is necessary to complete the notification forms. This information will be used until the primary met tower is repaired.

INSTRUCTIONS

When the Control Room calls the NWS, read them the weather report information from the Meteorological Data Section of this package.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 9A

TO: SECURITY SHIFT SUPERVISOR TIME: When requested to secure doors and hatches

FROM: SECURITY CONTROLLER/SECURITY MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

When the Control Room requests Security to secure all exterior doors and hatches, direct this activity to be simulated.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 9B

TO: SECURITY SHIFT SUPERVISOR TIME: When requested to secure doors and hatches

FROM: SECURITY CONTROLLER/SECURITY MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

Security personnel will carry out all activities associated with securing hatches and doors up to the point of actually securing the doors and hatches.

COMMENTS

Due to the report of a tornado touching down in the Owner Controlled Area, OP-901-521 directs that all exterior doors and hatches be secured. Since Security will receive information that the tornado warning has been changed to a tornado watch approximately 5 minutes after the initial report, most hatches and doors would probably not be secured anyway. For the purposes of this drill, there is no training to be gained by actually securing doors and hatches which could affect the actual operation of the plant. As a result a decision was made to simulate securing the doors and hatches at this point in the scenario. Security will still be required to demonstrate proper actions per their procedures up to the point of actually securing the doors and hatches.

INSTRUCTIONS

The information on this cue card will be provided to the appropriate Security personnel at the point at which they would actually secure hatches and doors.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 10A

TO: NAO/I&C REPAIR TEAM TIME: Upon inspection of met towers

FROM: NAO MONITOR/I&C REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL.
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

The backup meteorological tower has been uprooted and is laying in the cane field next to the plant access road.

The primary meteorological tower has sustained the following damage:

There is no local or remote (Control Room) current output indications.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 10B

TO: NAO/I&C REPAIR TEAM TIME: Upon inspection of met towers

FROM: NAO MONITOR/I&C REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The I&C repair team will assess the damage to the primary meteorological tower.
2. They will determine that there is no power to the primary met tower instrument cabinet.
3. They will find that circuit breaker #7 (EM-EBKR-PMT-1-7) has tripped open in the 120/280 VAC distribution panel PMT-1.
4. When the breaker is reset they will notice there will be no output current indications locally and remotely.
5. They will then find that there is a loss of power to the current driver card rack due to a blown 1 amp fuse.
6. The fuse will be replaced and the tower will placed back in service.

COMMENTS

1. The damage to the meteorological towers results in the loss of all meteorological data. For the 1st 15 minutes, the Control Room will still see indication of the 15-minute averaged data, but will lose this indication also.
2. The repair team will need to obtain a fuse from the warehouse. When the fuse is replaced, all indications for the primary meteorological tower will be restored. The time frame to complete repairs is approximately 2 1/2 hours.

INSTRUCTIONS

1. The drill control team will ensure that repairs to the primary meteorological tower are completed no later than 10:30.
2. When the fuse has been replaced and the power supply breaker is closed, the Control Room Controller/Monitor will instruct the control Room data clerk to cease posting meteorological data since it will now be available from the Simulator SPDS mimic.
3. Mock-ups will be provided to display the indications at the primary meteorological tower and to show the backup meteorological tower laying in the cane field.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 11A

TO: SS/EMERGENCY COORDINATOR TIME: At the discretion of the Lead Controller

FROM: CONTROL ROOM CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: When it appears imminent that classification will not be in accordance with the design of this exercise package.

Contingency Action: Direct the Shift Supervisor/Emergency Coordinator to classify the event as an Unusual Event in accordance with the design of this exercise package.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 11B

TO: SS/EMERGENCY COORDINATOR TIME: At the discretion of the Lead Controller

FROM: CONTROL ROOM CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The SS/Emergency Coordinator declares Unusual Event.
2. EP-001-010, Unusual Event is implemented.
3. Offsite agencies are notified of the Unusual Event declaration.

COMMENTS

The purpose of this cue card is to maintain the scenario time line. This cue card will not be issued any earlier than 15 minutes after Unusual Event conditions are present.

INSTRUCTIONS

This cue card is not to be issued without authorization of the Lead Controller.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 12A

TO: CRS/NPO TIME: 09:00

FROM: CONTROL ROOM MONITOR T = + 1:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

RCP 1B control switch indicates "STOP"

Automatic trip signals are indicated on all four channels, but the reactor did not trip

ALARMS:

RCP 1B VIBRATION HI on CP-2, Cabinet H, Window A-6

RCP 1B TRIP/TROUBLE on CP-2, Cabinet H, Window A5

COMPUTER POINT D13602, RCPM 1B OVERCURR/OVERLD TRIP, "DETECTED"

COMPUTER POINT D13600, RCP 1B, "OFF"

COMPUTER POINT A13600, RCPM 1B AMPS, "0"

RMS ALARMS:

PRM-IRE-0100X, S/G BLOWDOWN, HIGH ALARM

ARM-IRE-5021, -4 RAB LETDOWN HX/BLOWDOWN PUMP HALLWAY, ALERT ALARM

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 12B

TO: CRS/NPO TIME: 09:00

FROM: CONTROL ROOM MONITOR T = + 1:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. NPO will manually trip the reactor.
2. Immediate operator actions for reactor trip will be performed.
3. Control Room enters OP-902-000, Emergency Entry Procedure.
4. NPO may switch condenser vacuum exhaust to the plant stack as immediate action for receiving the blowdown monitor alarm.
5. SS/EC declares an Alert based on Initiating Condition C/A/IV.
6. Control Room may dispatch an NAO/electrical maintenance team to investigate the RCP 1B trip.

COMMENTS

If the participants investigate the failure of the automatic reactor trip, they will not find any abnormal indications. The failure of the trip was a spurious occurrence.

INSTRUCTIONS

This cue card will not need to be issued unless the Simulator fails and the indications are not available on the Control Room panels.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 13A

TO: NAO/ELECTRICAL REPAIR TEAM TIME: Upon arrival at RCP 1B breaker

FROM: NAO MONITOR/ELECTRICAL MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

When the NAO/electrical repair team arrives at RCP 1B breaker, provide the following information:

The breaker is open.

The following relay indications will be observed:

RC EREL1B-7L (74/HR Relay) is picked up

RC EREL1B-7A (Overcurrent relay Phase A) flag on standard inst unit (lower right)

RC EREL1B-7B (Overcurrent relay Phase B) flag on standard inst unit (lower right)

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 13B

TO: NAO/ELECTRICAL REPAIR TEAM TIME: Upon arrival at RCP 1B breaker

FROM: NAO MONITOR/ELECTRICAL MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room will be notified of the indications at the breaker.
2. If requested to take readings on the motor, the electrical repair team will receive the following indications:
   Phase-to-Phase resistance = 0.1 OHMS
   Phase-to-Ground resistance > 600 megOHMS (non-temperature corrected)
   (If ground readings are taken with a hand crank megger, the readings will be 0 megOHMS; this motor is equipped with surge capacitors and the hand crank megger is not enough to overcome charging the capacitors.)

COMMENTS

This team may not be requested due to the alarm indications present.

Documents referenced:

CWD 230	CWD 231	CWD 234
CWD 235	CWD XLII	WA 01118307
ME 004-331	EMDRAC 1564-6904	

INSTRUCTIONS

If readings are requested, the breaker will probably be racked out. If this occurs, ensure the Simulator Instructor Booth is informed so the control switch can be made dark.

Ensure proper electrical safety precautions are followed.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 14A

TO: EMERGENCY COORDINATOR TIME: Upon declaration of Alert

FROM: CONTROL ROOM CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

Substitute for Step 5.1.1 of EP-001-020:

5.1.1 Sound the STATION ALARM (for at least 5 seconds) and make the following announcement(s):

5.1.1.1 ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!

THIS IS A DRILL! THIS IS A DRILL!

AN ALERT WAS DECLARED AT (________) DUE TO (____)

ALL MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION FOR THIS EXERCISE REPORT TO YOUR STATIONS (If necessary, announce routing instructions for EOF responders). ALL OTHER PERSONNEL REPORT TO YOUR WORK STATIONS. (If the emergency is radiation oriented, add: "There will be no smoking, eating or drinking until further notice.") THE MAINTENANCE RADIO FREQUENCY IS NOW DEDICATED FOR EMERGENCY USE ONLY.

THIS IS A DRILL! THIS IS A DRILL!

5.1.1.2 If there is a localized emergency (e.g., fire, radiological hazard outside of normally established RCAs), announce its type and location and instruct personnel to stand clear of this area (refer to FP-001-020 for fire).

5.1.1.3 Sound the STATION ALARM (for at least 5 seconds) and repeat the announcement(s) at least two more times, allowing sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 14B

TO: EMERGENCY COORDINATOR TIME: Upon declaration of Alert

FROM: CONTROL ROOM CONTROLLER T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. EC substitutes the exercise announcement for Step 5.1.1 of EP-001-020, Alert.
2. Accountability card readers are activated.
3. Plant page announcement is made notifying station personnel that the accountability card readers are activated.
4. The TSC, OSC and EOF personnel are mobilized via the plant page announcement and the VNS.
5. The Control Room will simulate activating ERDS.
6. There are no PARs required for this declaration.

COMMENTS

Since the Emergency Response Data System (ERDS) is not tied to the Simulator, the activation of ERDS will be simulated. The Control Room personnel may simulate the steps necessary to activate ERDS or decide to call the shift Computer Technician for activation of ERDS.

INSTRUCTIONS

Controllers will ensure that all Drill Control Team members, NRC Evaluators and guest observers log into the accountability card readers after it has been announced that they have been activated AND sign on a Facility Accountability Roster.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 15A

TO: EMERGENCY COORDINATOR TIME: At the discretion of the Lead Controller

FROM: CONTROL ROOM CONTROLLER T = N/A

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Condition: When it appears imminent that classification will not be in accordance with the design of this exercise package.

Contingency Action: Direct the Shift Supervisor/Emergency Coordinator to classify the event as an Alert in accordance with the design of this exercise package.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 15B

TO: EMERGENCY COORDINATOR TIME: At the discretion of the Lead Controller

FROM: CONTROL ROOM CONTROLLER T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. Alert is declared.
2. EP-001-020, Alert is implemented.

COMMENTS

The purpose of this cue card is to maintain the scenario time line. This cue card will not be issued any earlier than 15 minutes after Alert conditions are present.

INSTRUCTIONS

This cue card is not to be issued without authorization from the Lead Controller.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 16A

TO: EMERGENCY COMMUNICATOR

TIME: When the Emergency Communicator begins activating the VNS

FROM: CR COMMUNICATIONS MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

When the Emergency Communicator begins to activate the Voice Notification System (VNS) to callout the Onsite Organization, ensure that the "DRILL" scenario is used by substituting the "DRILL USE ONLY" copy of EP-002-015.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 16B

TO: EMERGENCY COMMUNICATOR

TIME: When the Emergency Communicator begins activating the VNS

FROM: CR COMMUNICATIONS MONITOR

T = N/A

****

THIS IS A DRILL.
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Emergency Communicator will initiate the Onsite callout "DRILL" scenario.

COMMENTS

EP-002-015 is written for use in actual emergency situations and directs the Emergency Communicator to initiate the scenarios in the EMERGENCY mode which will not include the "THIS IS A DRILL" statement. By initiating the DRILL scenario, the "THIS IS A DRILL" statement will be provided to the personnel when they call in. This will eliminate any confusion as to whether or not an actual emergency has been declared.

INSTRUCTIONS

The "DRILL USE ONLY" copy of EP-002-015 will be given to the Emergency Communicator when he begins to activate the VNS.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 17A

TO: PLANT SS

TIME: Upon activation of the accountability card readers

FROM: ADMIN. NPO MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: When the announcement is made that the accountability card readers have been activated.

Contingency Action: Direct the SS, in the Control Room, to have all of his shift Operators (including NAOs) card in on the accountability card readers and sign in on a Facility Accountability Roster.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 17B

TO: PLANT SS

TIME: Upon activation of the accountability card readers

FROM: ADMIN. NPO MONITOR

T = N/A

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Operating shift personnel will card in on the accountability card readers and a Facility Accountability Roster will be completed.

COMMENTS

The purpose of this cue card is to ensure that the Operating shift, which is not actually participating in the exercise, will be accounted for when a site evacuation is implemented. This will prevent the possibility of these Operators being inadvertently identified as missing persons when accountability is conducted after the evacuation.

INSTRUCTIONS

Issue this cue card immediately following the announcement that the accountability card readers have been activated.

Ensure that the Control Room Facility Accountability Roster is given to the TSC Supervisor when the TSC begins to activate. The Admin. NPO will be responsible for getting the Facility Accountability Roster to the TSC Supervisor.

The Facility Accountability Roster may be filled out by the Operating shift prior to the exercise during the briefing conducted by the Lead Controller.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 18A

TO: TSC COMMUNICATOR

TIME: When the TSC Communicators begin to activate the TSC Activated VNS Scenario

FROM: TSC COMMUNICATIONS MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

When the TSC Communicator begins to activate the VNS to initiate the TSC Activated Scenario, ensure that the DRILL scenario is used by substituting the "DRILL USE ONLY" copy of EP-002-015.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 18B

TO: TSC COMMUNICATOR

TIME: When the TSC Communicators begin to activate the TSC Activated VNS Scenario

FROM: TSC COMMUNICATIONS MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The TSC Communicator will initiate the DRILL TSC Activated Scenario.

COMMENTS

EP-002-015 is written for use in actual emergency situations and directs the Communicator to initiate the scenarios in the EMERGENCY mode which will not include the "THIS IS A DRILL" statement. By initiating the DRILL scenario, the "THIS IS A DRILL" statement will be provided to the personnel when they call in. This will eliminate any confusion as to whether or not an actual emergency has been declared.

INSTRUCTIONS

The "DRILL USE ONLY" copy of EP-002-015 will be given to the TSC Communicator when he begins to activate the VNS.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 19A

TO: CHEMISTRY SUPERVISOR TIME: When an RCS sample is requested

FROM: CHEMISTRY CONTROLLER/MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

CONTINGENCY CUE CARD

Implementing Conditions: When Chemistry is requested to draw an RCS sample and decide to either use the primary panel or decide not to draw a sample at this time.

Contingency Action: Indicate that they must use the PASS panel, ensure that an actual PASS sample is drawn and analyzed.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 19B

TO: CHEMISTRY SUPERVISOR

TIME: When an RCS sample is requested

FROM: CHEMISTRY CONTROLLER/MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Chemistry personnel will coordinate drawing a PASS sample with HP and Operations.

COMMENTS

1. Since plant equipment is usually not operated during drills, it may be necessary to inform the participants that we actually want them to draw a PASS sample rather than simulate it. This activity will have to be coordinated with the real Operations Shift to align the PASS panel for operation.

2. It is also possible that HP and Chemistry may decide that the radiation levels, although they do pose a hazard, are not high enough to force a PASS sample at this time. If this occurs, the drill team will give them credit for their assessment of the conditions and then direct them to draw a PASS sample to satisfy an exercise objective.

INSTRUCTIONS

1. PASS sampling is an objective of this exercise. The drill team will ensure that an actual PASS sample is drawn and analyzed.

2. If the Operations shift cannot support the PASS sampling activities, due to other plant activities, the PASS sampling will be simulated. Ensure the Lead Controller is informed if this activity must be simulated.

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W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 20A

TO: CONTROL ROOM DATA CLERK TIME: 09:00

FROM: CONTROL ROOM CONTROLLER T = +1:15

****

THIS IS A DRILL

DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! THIS IS A DRILL!

THE 1995 ANNUAL EXERCISE IS IN PROGRESS. DO NOT USE THE PLANT PAGE FOR NON-EXERCISE RELATED ANNOUNCEMENTS.

DRILL TIME IS (Insert time from Simulator clock).

THIS IS A DRILL!

Do not repeat this announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 20B

TO: CONTROL ROOM DATA CLERK TIME: 09:00

FROM: CONTROL ROOM CONTROLLER T = +1:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room Data Clerk will make the announcement.

COMMENTS

INSTRUCTIONS

The Control Room Data Clerk should ensure that this announcement does not interfere with announcements being made by the exercise participants.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 21A

TO: CRS/NPO TIME: 09:40

FROM: CONTROL ROOM CONTROLLER T = + 1:55

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

The top portion of the charging pump "A" control switch indicates "OFF"

The bottom portion of the charging pump "A" control switch indicates "TURN OFF"

ALARMS

COMPUTER POINT D39605, CVCS CHG PMP A LO OIL PRES, "DETECTED"

CHARGING PUMP A LUBE OIL PRESSURE LO, on CP-4, Cabinet G, Window C4

CHARGING PUMP A NOT AVAILABLE on CP-4, Cabinet G, Window A4

COMPUTER POINT D39600, CVCS CHG PMP A, "OFF"

COMPUTER POINT A39600, CVCS CHG PMP A AMPS, "0"

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 21B

TO: CRS/NPO TIME: 09:40

FROM: CONTROL ROOM CONTROLLER T = + 1:55

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room will enter OP-901-112, Charging or Letdown Malfunction.
2. The Control Room will dispatch an NAO and/or maintenance personnel to inspect the charging pump.
3. When the "A" charging pump will not restart, the Control Room may start an additional charging pump.

COMMENTS

If the Control Room turns the control switch for the "A" charging pump to the "OFF" position and then back to "AUTO", the charging pump will start when SIAS is initiated. Due to the low lube oil pressure, this will result in the charging pump seizing and tripping. If the control switch is just turned to the "OFF" position the pump will not start on SIAS.

INSTRUCTIONS

The information on this cue card will not need to be issued unless the Simulator fails and the indications are not available on the control panels.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 22A

TO: NAO/MECHANICAL REPAIR TEAM

TIME: Upon arrival at "A" Charging pump

FROM: NAO MONITOR/
MECHANICAL REPAIR TEAM MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

Oil is seen dripping from the fitting for the lube oil pressure relief valve.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 22B

TO: NAO/ MECHANICAL REPAIR TEAM

TIME: Upon arrival at "A" Charging pump

FROM: NAO MONITOR/
MECHANICAL REPAIR TEAM MONITOR

T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. Attempts to tighten the oil relief fitting fail indicating that the fitting is galled.
2. Mechanical maintenance will replace the oil pressure relief valve fitting and associated tubing.

COMMENTS

1. Since the PM on the A/B charging pump will be in the final stages, the emergency organization may decide to place a priority on getting the A/B pump back instead of working on the A charging pump.
2. The emergency organization may also decide to use the relief valve and fittings from the A/B charging pump to repair the A charging pump.
3. The emergency organization may also choose to expedite the restoration of the A/B charging pump and have another repair team work on the repair of the A charging pump.
4. If a SIAS occurs, and the A charging pump control switch is not in the OFF position, the charging pump will start, since the low lube oil pressure trip will be bypassed. This will result in seizing the pump and it will trip on overcurrent after approximately 30 minutes.

INSTRUCTIONS

Provide the information on this cue card to the NAO/repair team when they investigate the failure of the A charging pump.

The repair team will enter the A charging pump room to investigate the problem and then the drill team will direct them to the mock-up provided in the -35 RAB hallway near the door to the A emergency feedwater pump room.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 23A

TO: NAO/ELECTRICAL REPAIR TEAM

TIME: Upon investigation of "A" charging pump

FROM: NAO MONITOR/
ELECTRICAL REPAIR TEAM MONITOR

T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

When the NAO/electrical repair team arrives at the A charging pump breaker, provide the following information:

The A charging pump breaker is open and no abnormal indications are observed for the breaker or protective relays.

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JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 23B

TO: NAO/ELECTRICAL REPAIR TEAM TIME: Upon investigation of "A" charging pump

FROM: NAO MONITOR/
ELECTRICAL REPAIR TEAM MONITOR T = N/A

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

ANTICIPATED RESPONSE

1. The Control Room will be notified of the indications at the breaker.
2. If requested to take readings on the motor, the electrical repair team will receive the following indications:
   Phase-to-Phase resistance = 0.2 OHMS
   Phase-to-Ground resistance > 1000 megOHMS (non-temperature corrected)

COMMENTS

This team may not be requested due to the alarm indications present.

If a SIAS occurs, and the A charging pump control switch is not in the OFF position, the charging pump will start, since the low lube oil pressure trip will be bypassed. This will result in seizing the pump and it will trip on overcurrent after approximately 30 minutes.

Documents referenced:

CWD 365	CWD E365	CWD 367
CWD XLII	WA 01067190	

INSTRUCTIONS

If readings are requested, the breaker will probably be racked out. If this occurs, ensure the Simulator Instructor Booth is informed so the control switch can be made dark.

Ensure proper electrical safety precautions are followed.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 24A

TO: CONTROL ROOM DATA CLERK TIME: 10:00

FROM: CONTROL ROOM CONTROLLER T = + 2:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Make the following announcement:

ATTENTION ALL PERSONNEL! THIS IS A DRILL!

THE 1995 ANNUAL EXERCISE IS IN PROGRESS. DO NOT USE THE PLANT PAGE FOR NON-EXERCISE RELATED ANNOUNCEMENTS.

DRILL TIME IS (Insert time from Simulator clock).

THIS IS A DRILL!

Do not repeat this announcement.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 24B

TO: CONTROL ROOM DATA CLERK TIME: 10:00

FROM: CONTROL ROOM CONTROLLER T = + 2:15

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

The Control Room Data Clerk will make the announcement.

COMMENTS

INSTRUCTIONS

The Control Room Data Clerk should ensure that this announcement does not interfere with announcements being made by the exercise participants.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 25A

TO: CRS/NPO TIME: 10:05

FROM: CONTROL ROOM CONTROLLER T = + 2:20

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

ALARMS:

INST AIR DRYERS BYPASSED on CP-36, Cabinet L, Window H7

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 25B

TO: CRS/NPO TIME: 10:05

FROM: CONTROL ROOM CONTROLLER T = + 2:20

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The Control Room will implement OP-901-511, Instrument Air Malfunction and dispatch NAOs to investigate the problem with instrument air.
2. The TSC and OSC should dispatch additional personnel to assist the Control Room in locating the instrument air leak.

COMMENTS

The instrument air problem is due to a leak on the instrument air header (7IA2-5) in the B switchgear room. The leak is just upstream of valve IA-590, is unisolable and must be repaired. The instrument air to station air cross connect valve does not open due to a controller problem.

The instrument air header pressure will drop to approximately 80 psi and remain steady. This pressure will not cause the operation of any automatic valves.

INSTRUCTIONS

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 26A

TO: CHEMISTRY/HP TECHNICIAN TIME: 10:05

FROM: CHEMISTRY/HP MONITOR T = +2:20

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

The air is leaking from the main instrument air header in the vicinity of the PASS panel. The personnel drawing the PASS sample should be able to hear the air leaking from the mock-up of the instrument air piping.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 26B

TO: CHEMISTRY/HP TECHNICIAN TIME: 10:05

FROM: CHEMISTRY/HP MONITOR T = +2:20

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. The technicians should report the instrument air leakage to the Control Room.
2. The Control Room will dispatch an NAO to investigate the leakage.
3. When the NAO determines that the leak is unisolable, the Control Room will request a repair team to repair the leakage.

COMMENTS

The instrument air problem is due to a leak on the instrument air header (7IA2-5) in the B switchgear room. The leak is just upstream of valve IA-590. Closing IA-590 will not secure the leakage.

INSTRUCTIONS

A mock-up of the instrument air header is provided in the B switchgear room. There is no line number on the piping mock-up, but there will be a valve labeled IA-590. This is consistent with the labeling of the actual instrument air line.

A member of the drill team will be staged at the mock-up. The mock-up is attached to an air bottle. The drill team member will adjust the air flow, as appropriate, to provide the desired conditions. Air flow is only necessary when drill participants are evaluating the situation or making repairs.

The PASS sampling team may not be in the area at the time of the instrument air leakage problem. IT IS IMPORTANT THAT THE DRILL TEAM MEMBER ADJUSTS THE MOCK-UP TO INDICATE AIR LEAKAGE WHEN A PARTICIPANT COMES INTO THE ROOM OR OPENS THE DOOR WHILE CONDUCTING THEIR INVESTIGATION.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 27A

TO:	MECHANICAL REPAIR TEAM	TIME:	Upon arrival at instrument air leak
FROM:	REPAIR TEAM MONITOR	T =	N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

Direct the team to the instrument air mock-up.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 27B

TO: MECHANICAL REPAIR TEAM TIME: Upon arrival at instrument air leak

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

ANTICIPATED RESPONSE

1. Repair team should attempt to patch the pipe rupture.
2. When patch has been installed, the instrument air header pressure will return to normal operating pressure.

COMMENTS

1. The repair team may attempt various methods to patch the piping. They will be given credit for any method that would result in sealing the leaking pipe or slowing down the leakage. They will actually be required to repair the leak on the mock-up provided.
2. The instrument air piping is a 2" pipe.

INSTRUCTIONS

A member of the drill team will be staged at the mock-up. The mock-up is attached to an air bottle. The drill team member will adjust the air flow, as appropriate, to provide the desired conditions. Air flow is only necessary when drill participants are evaluating the situation or making repairs.

IT IS IMPORTANT TO KEEP THE SIMULATOR INSTRUCTOR BOOTH INFORMED OF THE STATUS OF REPAIR ACTIVITIES IN THE PLANT AT ALL TIMES.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

W3 SES EMERGENCY PREPAREDNESS DRILL CUE CARD

DRILL TYPE/NO. 1995 ANNUAL EXERCISE #95-04 CUE CARD NO. 28A

TO: I&C REPAIR TEAM TIME: Upon arrival at SA-IA X-Conn.

FROM: REPAIR TEAM MONITOR T = N/A

****

THIS IS A DRILL
DO NOT initiate actions affecting normal plant operations

****

Provide the following information:

The repair team will find that the station air to instrument air cross connect valve is closed.

VII. CHARTS, GRAPHS AND TABLES

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

METHODOLOGY AND ASSUMPTIONS USED FOR THE DEVELOPMENT OF THE OPERATIONAL PLANT DATA

1. The data is based on a trial run on the Waterford 3 plant specific simulator using an actual Operating crew.

2. The scenario starts with the following initial conditions:

   a. The lower seal on Reactor Coolant Pump (RCP) 1B is leaking. The condition has been evaluated by engineering and it was determined that the RCP can be operated with one seal failed.
   b. The A/B charging pump is out of service to replace the oil.
   c. The A/B electrical safety bus is aligned to the B side.

3. The scenario starts with the plant at 100 % power at the beginning of core life. Boron concentration is assumed to be 1204 ppm.

4. At 09:00, a shaft seizure for RCP 1B occurs. All four Reactor Protection System (RPS) channels indicate that an automatic trip signal is present, but the reactor did not trip. The Operators will manually trip the reactor and begin a plant shutdown and cooldown. The RCP shaft seizure, with the failure of the automatic trip, results in fuel cladding damage. There are no clear indications of fuel failure at this time since the Reactor Coolant System is intact and all emergency core cooling system components are operable. The participants should suspect fuel damage due to the shaft seizure and request a PASS sample to check for fuel damage.

5. At 09:40, the A charging pump trips due to a leak in the lube oil piping. This will serve to limit the plant cooldown enough to support subsequent scenario activities.

6. At 10:05, an instrument air leak occurs. The leak causes instrument air pressure drop to approximately 80 psi. This pressure was chosen since it will cause concern for the participants, but won't affect the operation of any automatic safety valves. This will also allow the PASS sampling activities to continue.

7. At 10:30, a large break LOCA is initiated. The Safety Injection Actuation Signal (SIAS) will occur at this time. The size of the leak will be monitored and adjusted by the Simulator Operator such that the Refueling Water Storage Pool (RWSP) will reach a level at which the Recirculation Actuation Signal (RAS) is initiated (10% RWSP level) within approximately 90 minutes of the initiation of SIAS. This is necessary to maintain the drill timeline, since the offsite release will be initiated when RAS occurs, due to a leak on the A HPSI pump suction line. Due to the fuel damage, it is important that the participants be allowed to identify the HPSI pump leakage prior to the point where radiation levels will prevent access to the A Safeguards Room. After the leak is identified, the Simulator Operator will adjust the RCS leakage to expedite the initiation of RAS.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 0745

REACTOR POWER (%)	100	SG 2 PRESSURE (PSIA)	870
PZR LEVEL (%)	55	SG 2 STEAM FLOW (MLBM/HR)	7.5E+06
PZR PRESSURE (PSIA)	2250	SG 2 FEED FLOW (MLBM/HR)	7.5E+06
PZR TEMPERATURE (°F)	650	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	606	SG 2 BLOWDOWN FLOW (GPM)	150
SUBCOOLED MARGIN (°F)	48	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	574	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	604	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	544	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	544	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	574	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	604	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	544	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	544	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	44	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	32	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	68	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	88	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	870	CONTAINMENT TEMP. (°F)	111
SG 1 STEAM FLOW (MLBM/HR)	7.5E+06	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	7.5E+06	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	150	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	68	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	88	TURBINE POWER (MW)	1132

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 0800

REACTOR POWER (%)	100	SG 2 PRESSURE (PSIA)	870
PZR LEVEL (%)	55	SG 2 STEAM FLOW (MLBM/HR)	7.5E+06
PZR PRESSURE (PSIA)	2250	SG 2 FEED FLOW (MLBM/HR)	7.5E+06
PZR TEMPERATURE (°F)	650	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	606	SG 2 BLOWDOWN FLOW (GPM)	150
SUBCOOLED MARGIN (°F)	48	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	574	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	604	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	544	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	544	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	574	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	604	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	544	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	544	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	44	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	32	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	68	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	88	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	870	CONTAINMENT TEMP. (°F)	111
SG 1 STEAM FLOW (MLBM/HR)	7.5E+06	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	7.5E+06	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	150	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	68	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	88	TURBINE POWER (MW)	1132

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 0815

REACTOR POWER (%)	100	SG 2 PRESSURE (PSIA)	870
PZR LEVEL (%)	55	SG 2 STEAM FLOW (MLBM/HR)	7.5E+06
PZR PRESSURE (PSIA)	2250	SG 2 FEED FLOW (MLBM/HR)	7.5E+06
PZR TEMPERATURE (°F)	650	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	606	SG 2 BLOWDOWN FLOW (GPM)	150
SUBCOOLED MARGIN (°F)	48	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	574	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	604	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	544	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	544	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	574	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	604	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	544	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	544	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	44	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	32	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	68	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	88	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	871	CONTAINMENT TEMP. (°F)	111
SG 1 STEAM FLOW (MLBM/HR)	7.5E+06	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	7.5E+06	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	150	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	68	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	88	TURBINE POWER (MW)	1132

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 0830

REACTOR POWER (%)	100
PZR LEVEL (%)	55
PZR PRESSURE (PSIA)	2250
PZR TEMPERATURE (°F)	650
CET TEMPERATURE (°F)	606
SUBCOOLED MARGIN (°F)	48
LOOP 1 TAVE (°F)	574
LOOP 1 TH (°F)	604
LOOP 1A TC (°F)	544
LOOP 1B TC (°F)	544
LOOP 2 TAVE (°F)	574
LOOP 2 TH (°F)	604
LOOP 2A TC (°F)	544
LOOP 2B TC (°F)	544
RV HEAD LEVEL (INCHES)	207
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	44
LETDOWN FLOW (GPM)	32
SG 1 LEVEL NR (%)	68
SG 1 LEVEL WR (%)	88
SG 1 PRESSURE (PSIA)	870
SG 1 STEAM FLOW (MLBM/HR)	7.4E+06
SG 1 FEED FLOW (MLBM/HR)	7.4E+06
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	150
SG 2 LEVEL NR (%)	68
SG 2 LEVEL WR (%)	88

SG 2 PRESSURE (PSIA)	870
SG 2 STEAM FLOW (MLBM/HR)	7.4E+06
SG 2 FEED FLOW (MLBM/HR)	7.4E+06
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	150
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	0
HPSI B FLOW (GPM)	0
CS FLOW (1) (GPM)	0
CS FLOW (2) (GPM)	0
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	630
SIT TANK 1B PRESSURE (PSIA)	630
SIT TANK 2A PRESSURE (PSIA)	630
SIT TANK 2B PRESSURE (PSIA)	630
CONTAINMENT PRESS. (PSIA)	15
CONTAINMENT TEMP. (°F)	111
SI SUMP LEVEL (FT)	0
CONTAINMENT SUMP (FT)	2.5
RWSP LEVEL (%)	94
PLNT STACK FLOW RATE (CFM)	92000
ANNULUS PRESS. (*H2O GAGE)	14
TURBINE POWER (MW)	1132

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 0845

REACTOR POWER (%)	100	SG 2 PRESSURE (PSIA)	870
PZR LEVEL (%)	55	SG 2 STEAM FLOW (MLBM/HR)	7.4E+06
PZR PRESSURE (PSIA)	2250	SG 2 FEED FLOW (MLBM/HR)	7.4E+06
PZR TEMPERATURE (°F)	650	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	606	SG 2 BLOWDOWN FLOW (GPM)	150
SUBCOOLED MARGIN (°F)	48	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	574	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	604	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	544	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	544	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	574	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	604	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	544	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	544	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	44	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	32	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	68	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	88	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	870	CONTAINMENT TEMP. (°F)	111
SG 1 STEAM FLOW (MLBM/HR)	7.4E+06	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	7.4E+06	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	150	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	68	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	88	TURBINE POWER (MW)	1132

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 0900

REACTOR POWER (%)	100	SG 2 PRESSURE (PSIA)	870
PZR LEVEL (%)	55	SG 2 STEAM FLOW (MLBM/HR)	7.4E+06
PZR PRESSURE (PSIA)	2250	SG 2 FEED FLOW (MLBM/HR)	7.4E+06
PZR TEMPERATURE (°F)	650	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	606	SG 2 BLOWDOWN FLOW (GPM)	150
SUBCOOLED MARGIN (°F)	48	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	574	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	604	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	544	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	544	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	574	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	604	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	544	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	544	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	44	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	32	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	68	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	88	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	870	CONTAINMENT TEMP. (°F)	111
SG 1 STEAM FLOW (MLBM/HR)	7.4E+06	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	7.4E+06	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	150	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	68	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	88	TURBINE POWER (MW)	1132

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 0915

REACTOR POWER (%)	5E-06	SG 2 PRESSURE (PSIA)	970
PZR LEVEL (%)	32	SG 2 STEAM FLOW (MLBM/HR)	61E+03
PZR PRESSURE (PSIA)	2070	SG 2 FEED FLOW (MLBM/HR)	156E+03
PZR TEMPERATURE (°F)	635	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	545	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	98	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	542	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	543	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	542	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	542	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	542	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	543	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	542	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	542	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	28	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	16	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	75	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	970	CONTAINMENT TEMP. (°F)	110
SG 1 STEAM FLOW (MLBM/HR)	118E+03	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	160E+03	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	32	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	81	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
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PLANT DATA SECTION VII TIME: 0930

REACTOR POWER (%)	2.1E-07	SG 2 PRESSURE (PSIA)	972
PZR LEVEL (%)	32	SG 2 STEAM FLOW (MLBM/HR)	52E+03
PZR PRESSURE (PSIA)	2048	SG 2 FEED FLOW (MLBM/HR)	83E+03
PZR TEMPERATURE (°F)	659	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	545	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	109	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	542	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	543	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	542	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	542	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	542	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	543	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	542	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	542	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	44	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	28	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	25	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	78	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	972	CONTAINMENT TEMP. (°F)	110
SG 1 STEAM FLOW (MLBM/HR)	88E+03	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	95E+03	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	44	ANNULUS PRESS. (°H2O GAGE)	14
SG 2 LEVEL WR (%)	83	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA SECTION VII TIME: 0945

REACTOR POWER (%)	2.1E-09
PZR LEVEL (%)	33
PZR PRESSURE (PSIA)	2245
PZR TEMPERATURE (°F)	651
CET TEMPERATURE (°F)	542
SUBCOOLED MARGIN (°F)	109
LOOP 1 TAVE (°F)	539
LOOP 1 TH (°F)	541
LOOP 1A TC (°F)	538
LOOP 1B TC (°F)	538
LOOP 2 TAVE (°F)	539
LOOP 2 TH (°F)	541
LOOP 2A TC (°F)	538
LOOP 2B TC (°F)	538
RV HEAD LEVEL (INCHES)	207
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	0
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	48
SG 1 LEVEL WR (%)	84
SG 1 PRESSURE (PSIA)	948
SG 1 STEAM FLOW (MLBM/HR)	66E+03
SG 1 FEED FLOW (MLBM/HR)	104E+03
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	48
SG 2 LEVEL WR (%)	84

SG 2 PRESSURE (PSIA)	947
SG 2 STEAM FLOW (MLBM/HR)	17E+03
SG 2 FEED FLOW (MLBM/HR)	94E+03
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	0
HPSI B FLOW (GPM)	0
CS FLOW (1) (GPM)	0
CS FLOW (2) (GPM)	0
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	630
SIT TANK 1B PRESSURE (PSIA)	630
SIT TANK 2A PRESSURE (PSIA)	630
SIT TANK 2B PRESSURE (PSIA)	630
CONTAINMENT PRESS. (PSIA)	15
CONTAINMENT TEMP. (°F)	110
SI SUMP LEVEL (FT)	0
CONTAINMENT SUMP (FT)	2.5
RWSP LEVEL (%)	94
PLNT STACK FLOW RATE (CFM)	92000
ANNULUS PRESS. (°H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1000

REACTOR POWER (%)	2.1E-09	SG 2 PRESSURE (PSIA)	947
PZR LEVEL (%)	33	SG 2 STEAM FLOW (MLBM/HR)	17E+03
PZR PRESSURE (PSIA)	2245	SG 2 FEED FLOW (MLBM/HR)	94E+03
PZR TEMPERATURE (°F)	651	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	542	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	109	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	539	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	541	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	538	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	538	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	539	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	541	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	538	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	538	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	0	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	48	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	84	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	948	CONTAINMENT TEMP. (°F)	110
SG 1 STEAM FLOW (MLBM/HR)	66E+03	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	104E+03	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	48	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	84	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1015

REACTOR POWER (%)	2.1E-09	SG 2 PRESSURE (PSIA)	947
PZR LEVEL (%)	33	SG 2 STEAM FLOW (MLBM/HR)	17E+03
PZR PRESSURE (PSIA)	2245	SG 2 FEED FLOW (MLBM/HR)	94E+03
PZR TEMPERATURE (°F)	651	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	542	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	109	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	539	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	541	HPSI A FLOW (GPM)	0
LOOP 1A TC (°F)	538	HPSI B FLOW (GPM)	0
LOOP 1B TC (°F)	538	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	539	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	541	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	538	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	538	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	0	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	48	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	84	CONTAINMENT PRESS. (PSIA)	15
SG 1 PRESSURE (PSIA)	948	CONTAINMENT TEMP. (°F)	110
SG 1 STEAM FLOW (MLBM/HR)	66E+03	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	104E+03	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	92000
SG 2 LEVEL NR (%)	48	ANNULUS PRESS. (°H2O GAGE)	14
SG 2 LEVEL WR (%)	84	TURBINE POWER (MW)	0

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PLANT DATA — SECTION VII — TIME: 1030

REACTOR POWER (%)	1.7E-09	SG 2 PRESSURE (PSIA)	966
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	1E+03
PZR PRESSURE (PSIA)	1053	SG 2 FEED FLOW (MLBM/HR)	86E+03
PZR TEMPERATURE (°F)	551	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	550	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	545	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	550	HPSI A FLOW (GPM)	565
LOOP 1A TC (°F)	540	HPSI B FLOW (GPM)	565
LOOP 1B TC (°F)	540	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	545	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	550	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	540	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	540	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	207	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	27	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	77	CONTAINMENT PRESS. (PSIA)	16
SG 1 PRESSURE (PSIA)	971	CONTAINMENT TEMP. (°F)	126
SG 1 STEAM FLOW (MLBM/HR)	121E+03	SI SUMP LEVEL (FT)	0
SG 1 FEED FLOW (MLBM/HR)	95E+03	CONTAINMENT SUMP (FT)	2.5
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	94
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	48	ANNULUS PRESS. (°H2O GAGE)	14
SG 2 LEVEL WR (%)	84	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1045

REACTOR POWER (%)	1.2E-09	SG 2 PRESSURE (PSIA)	943
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	0
PZR PRESSURE (PSIA)	1045	SG 2 FEED FLOW (MLBM/HR)	0
PZR TEMPERATURE (°F)	558	EFW FLOW TO SG 2 (GPM)	50
CET TEMPERATURE (°F)	540	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	537	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	549	HPSI A FLOW (GPM)	600
LOOP 1A TC (°F)	470	HPSI B FLOW (GPM)	600
LOOP 1B TC (°F)	470	CS FLOW (1) (GPM)	0
LOOP 2 TAVE (°F)	537	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	549	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	470	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	470	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	200	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	630
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	630
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	630
SG 1 LEVEL NR (%)	34	SIT TANK 2B PRESSURE (PSIA)	630
SG 1 LEVEL WR (%)	76	CONTAINMENT PRESS. (PSIA)	16
SG 1 PRESSURE (PSIA)	940	CONTAINMENT TEMP. (°F)	146
SG 1 STEAM FLOW (MLBM/HR)	0	SI SUMP LEVEL (FT)	5.5
SG 1 FEED FLOW (MLBM/HR)	0	CONTAINMENT SUMP (FT)	15
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	91
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	54	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	83	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1100

REACTOR POWER (%)	8.2E-10
PZR LEVEL (%)	0
PZR PRESSURE (PSIA)	960
PZR TEMPERATURE (°F)	558
CET TEMPERATURE (°F)	540
SUBCOOLED MARGIN (°F)	0
LOOP 1 TAVE (°F)	487
LOOP 1 TH (°F)	545
LOOP 1A TC (°F)	430
LOOP 1B TC (°F)	430
LOOP 2 TAVE (°F)	487
LOOP 2 TH (°F)	545
LOOP 2A TC (°F)	430
LOOP 2B TC (°F)	430
RV HEAD LEVEL (INCHES)	214
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	88
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	16
SG 1 LEVEL WR (%)	76
SG 1 PRESSURE (PSIA)	335
SG 1 STEAM FLOW (MLBM/HR)	31E+03
SG 1 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	33
SG 2 LEVEL WR (%)	81
SG 2 PRESSURE (PSIA)	335
SG 2 STEAM FLOW (MLBM/HR)	39E+03
SG 2 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	600
HPSI B FLOW (GPM)	600
CS FLOW (1) (GPM)	0
CS FLOW (2) (GPM)	0
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	275
SIT TANK 1B PRESSURE (PSIA)	275
SIT TANK 2A PRESSURE (PSIA)	275
SIT TANK 2B PRESSURE (PSIA)	275
CONTAINMENT PRESS. (PSIA)	17
CONTAINMENT TEMP. (°F)	150
SI SUMP LEVEL (FT)	6.5
CONTAINMENT SUMP (FT)	16
RWSP LEVEL (%)	88
PLNT STACK FLOW RATE (CFM)	5000
ANNULUS PRESS. (°H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1115

REACTOR POWER (%)	6E-10	SG 2 PRESSURE (PSIA)	310
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	39E+03
PZR PRESSURE (PSIA)	890	SG 2 FEED FLOW (MLBM/HR)	0
PZR TEMPERATURE (°F)	558	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	530	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	472	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	525	HPSI A FLOW (GPM)	650
LOOP 1A TC (°F)	420	HPSI B FLOW (GPM)	650
LOOP 1B TC (°F)	420	CS FLOW (1) (GPM)	2000
LOOP 2 TAVE (°F)	472	CS FLOW (2) (GPM)	2000
LOOP 2 TH (°F)	525	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	420	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	420	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	214	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	275
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	275
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	275
SG 1 LEVEL NR (%)	16	SIT TANK 2B PRESSURE (PSIA)	275
SG 1 LEVEL WR (%)	76	CONTAINMENT PRESS. (PSIA)	20
SG 1 PRESSURE (PSIA)	310	CONTAINMENT TEMP. (°F)	150
SG 1 STEAM FLOW (MLBM/HR)	31E+03	SI SUMP LEVEL (FT)	6.5
SG 1 FEED FLOW (MLBM/HR)	0	CONTAINMENT SUMP (FT)	16
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	69
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	33	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	81	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 1130

REACTOR POWER (%)	8.2E-10
PZR LEVEL (%)	0
PZR PRESSURE (PSIA)	810
PZR TEMPERATURE (°F)	500
CET TEMPERATURE (°F)	520
SUBCOOLED MARGIN (°F)	0
LOOP 1 TAVE (°F)	457
LOOP 1 TH (°F)	515
LOOP 1A TC (°F)	400
LOOP 1B TC (°F)	400
LOOP 2 TAVE (°F)	457
LOOP 2 TH (°F)	515
LOOP 2A TC (°F)	400
LOOP 2B TC (°F)	400
RV HEAD LEVEL (INCHES)	214
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	88
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	16
SG 1 LEVEL WR (%)	76
SG 1 PRESSURE (PSIA)	245
SG 1 STEAM FLOW (MLBM/HR)	31E+03
SG 1 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	33
SG 2 LEVEL WR (%)	81
SG 2 PRESSURE (PSIA)	245
SG 2 STEAM FLOW (MLBM/HR)	39E+03
SG 2 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	650
HPSI B FLOW (GPM)	650
CS FLOW (1) (GPM)	2000
CS FLOW (2) (GPM)	2000
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	275
SIT TANK 1B PRESSURE (PSIA)	275
SIT TANK 2A PRESSURE (PSIA)	275
SIT TANK 2B PRESSURE (PSIA)	275
CONTAINMENT PRESS. (PSIA)	20
CONTAINMENT TEMP. (°F)	150
SI SUMP LEVEL (FT)	6.5
CONTAINMENT SUMP (FT)	16
RWSP LEVEL (%)	50
PLNT STACK FLOW RATE (CFM)	5000
ANNULUS PRESS. ("H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
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PLANT DATA

SECTION VII

TIME: 1145

REACTOR POWER (%)	8.2E-10
PZR LEVEL (%)	0
PZR PRESSURE (PSIA)	735
PZR TEMPERATURE (°F)	400
CET TEMPERATURE (°F)	510
SUBCOOLED MARGIN (°F)	0
LOOP 1 TAVE (°F)	447
LOOP 1 TH (°F)	505
LOOP 1A TC (°F)	390
LOOP 1B TC (°F)	390
LOOP 2 TAVE (°F)	447
LOOP 2 TH (°F)	505
LOOP 2A TC (°F)	390
LOOP 2B TC (°F)	390
RV HEAD LEVEL (INCHES)	214
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	88
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	16
SG 1 LEVEL WR (%)	76
SG 1 PRESSURE (PSIA)	220
SG 1 STEAM FLOW (MLBM/HR)	31E+03
SG 1 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	33
SG 2 LEVEL WR (%)	81

SG 2 PRESSURE (PSIA)	220
SG 2 STEAM FLOW (MLBM/HR)	39E+03
SG 2 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	650
HPSI B FLOW (GPM)	650
CS FLOW (1) (GPM)	2000
CS FLOW (2) (GPM)	2000
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	275
SIT TANK 1B PRESSURE (PSIA)	275
SIT TANK 2A PRESSURE (PSIA)	275
SIT TANK 2B PRESSURE (PSIA)	275
CONTAINMENT PRESS. (PSIA)	20
CONTAINMENT TEMP. (°F)	150
SI SUMP LEVEL (FT)	6.5
CONTAINMENT SUMP (FT)	16
RWSP LEVEL (%)	29
PLNT STACK FLOW RATE (CFM)	5000
ANNULUS PRESS. (°H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA

SECTION VII

TIME: 1200

REACTOR POWER (%)	8.2E-10
PZR LEVEL (%)	0
PZR PRESSURE (PSIA)	100
PZR TEMPERATURE (°F)	328
CET TEMPERATURE (°F)	328
SUBCOOLED MARGIN (°F)	0
LOOP 1 TAVE (°F)	314
LOOP 1 TH (°F)	328
LOOP 1A TC (°F)	300
LOOP 1B TC (°F)	300
LOOP 2 TAVE (°F)	314
LOOP 2 TH (°F)	328
LOOP 2A TC (°F)	300
LOOP 2B TC (°F)	300
RV HEAD LEVEL (INCHES)	214
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	88
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	16
SG 1 LEVEL WR (%)	76
SG 1 PRESSURE (PSIA)	185
SG 1 STEAM FLOW (MLBM/HR)	31E+03
SG 1 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	33
SG 2 LEVEL WR (%)	81

SG 2 PRESSURE (PSIA)	185
SG 2 STEAM FLOW (MLBM/HR)	39E+03
SG 2 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	650
HPSI B FLOW (GPM)	650
CS FLOW (1) (GPM)	2000
CS FLOW (2) (GPM)	0
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	275
SIT TANK 1B PRESSURE (PSIA)	275
SIT TANK 2A PRESSURE (PSIA)	275
SIT TANK 2B PRESSURE (PSIA)	275
CONTAINMENT PRESS. (PSIA)	20
CONTAINMENT TEMP. (°F)	150
SI SUMP LEVEL (FT)	6.5
CONTAINMENT SUMP (FT)	16
RWSP LEVEL (%)	10
PLNT STACK FLOW RATE (CFM)	5000
ANNULUS PRESS. ("H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 1215

REACTOR POWER (%)	8.2E-10	SG 2 PRESSURE (PSIA)	195
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	39E+03
PZR PRESSURE (PSIA)	100	SG 2 FEED FLOW (MLBM/HR)	0
PZR TEMPERATURE (°F)	328	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	328	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	314	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	328	HPSI A FLOW (GPM)	650
LOOP 1A TC (°F)	300	HPSI B FLOW (GPM)	650
LOOP 1B TC (°F)	300	CS FLOW (1) (GPM)	2000
LOOP 2 TAVE (°F)	314	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	328	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	300	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	300	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	214	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	275
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	275
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	275
SG 1 LEVEL NR (%)	16	SIT TANK 2B PRESSURE (PSIA)	275
SG 1 LEVEL WR (%)	76	CONTAINMENT PRESS. (PSIA)	20
SG 1 PRESSURE (PSIA)	195	CONTAINMENT TEMP. (°F)	150
SG 1 STEAM FLOW (MLBM/HR)	31E+03	SI SUMP LEVEL (FT)	6.5
SG 1 FEED FLOW (MLBM/HR)	0	CONTAINMENT SUMP (FT)	16
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	10
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	33	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	81	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1230

REACTOR POWER (%)	8.2E-10	SG 2 PRESSURE (PSIA)	135
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	39E+03
PZR PRESSURE (PSIA)	100	SG 2 FEED FLOW (MLBM/HR)	0
PZR TEMPERATURE (°F)	328	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	328	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	314	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	328	HPSI A FLOW (GPM)	650
LOOP 1A TC (°F)	300	HPSI B FLOW (GPM)	650
LOOP 1B TC (°F)	300	CS FLOW (1) (GPM)	2000
LOOP 2 TAVE (°F)	314	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	328	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	300	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	300	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	214	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	275
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	275
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	275
SG 1 LEVEL NR (%)	16	SIT TANK 2B PRESSURE (PSIA)	275
SG 1 LEVEL WR (%)	76	CONTAINMENT PRESS. (PSIA)	20
SG 1 PRESSURE (PSIA)	135	CONTAINMENT TEMP. (°F)	150
SG 1 STEAM FLOW (MLBM/HR)	31E+03	SI SUMP LEVEL (FT)	6.5
SG 1 FEED FLOW (MLBM/HR)	0	CONTAINMENT SUMP (FT)	16
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	10
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	33	ANNULUS PRESS. (°H2O GAGE)	14
SG 2 LEVEL WR (%)	81	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA | SECTION VII | TIME: 1245

Parameter	Value
REACTOR POWER (%)	8.2E-10
PZR LEVEL (%)	0
PZR PRESSURE (PSIA)	100
PZR TEMPERATURE (°F)	328
CET TEMPERATURE (°F)	328
SUBCOOLED MARGIN (°F)	0
LOOP 1 TAVE (°F)	314
LOOP 1 TH (°F)	328
LOOP 1A TC (°F)	300
LOOP 1B TC (°F)	300
LOOP 2 TAVE (°F)	314
LOOP 2 TH (°F)	328
LOOP 2A TC (°F)	300
LOOP 2B TC (°F)	300
RV HEAD LEVEL (INCHES)	214
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	88
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	16
SG 1 LEVEL WR (%)	76
SG 1 PRESSURE (PSIA)	115
SG 1 STEAM FLOW (MLBM/HR)	31E+03
SG 1 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	33
SG 2 LEVEL WR (%)	81
SG 2 PRESSURE (PSIA)	115
SG 2 STEAM FLOW (MLBM/HR)	39E+03
SG 2 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	650
HPSI B FLOW (GPM)	650
CS FLOW (1) (GPM)	2000
CS FLOW (2) (GPM)	00
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	275
SIT TANK 1B PRESSURE (PSIA)	275
SIT TANK 2A PRESSURE (PSIA)	275
SIT TANK 2B PRESSURE (PSIA)	275
CONTAINMENT PRESS. (PSIA)	20
CONTAINMENT TEMP. (°F)	150
SI SUMP LEVEL (FT)	8
CONTAINMENT SUMP (FT)	16
RWSP LEVEL (%)	10
PLNT STACK FLOW RATE (CFM)	5000
ANNULUS PRESS. ("H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA — SECTION VII — TIME: 1300

REACTOR POWER (%)	8.2E-10	SG 2 PRESSURE (PSIA)	100
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	39E+03
PZR PRESSURE (PSIA)	100	SG 2 FEED FLOW (MLBM/HR)	0
PZR TEMPERATURE (°F)	328	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	328	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	314	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	328	HPSI A FLOW (GPM)	650
LOOP 1A TC (°F)	300	HPSI B FLOW (GPM)	650
LOOP 1B TC (°F)	300	CS FLOW (1) (GPM)	2000
LOOP 2 TAVE (°F)	314	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	328	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	300	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	300	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	214	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	275
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	275
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	275
SG 1 LEVEL NR (%)	16	SIT TANK 2B PRESSURE (PSIA)	275
SG 1 LEVEL WR (%)	76	CONTAINMENT PRESS. (PSIA)	20
SG 1 PRESSURE (PSIA)	100	CONTAINMENT TEMP. (°F)	150
SG 1 STEAM FLOW (MLBM/HR)	31E+03	SI SUMP LEVEL (FT)	8
SG 1 FEED FLOW (MLBM/HR)	0	CONTAINMENT SUMP (FT)	16
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	10
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	33	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	81	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

PLANT DATA

SECTION VII

TIME: 1315

REACTOR POWER (%)	8.2E-10
PZR LEVEL (%)	0
PZR PRESSURE (PSIA)	100
PZR TEMPERATURE (°F)	328
CET TEMPERATURE (°F)	328
SUBCOOLED MARGIN (°F)	0
LOOP 1 TAVE (°F)	324
LOOP 1 TH (°F)	428
LOOP 1A TC (°F)	320
LOOP 1B TC (°F)	320
LOOP 2 TAVE (°F)	324
LOOP 2 TH (°F)	428
LOOP 2A TC (°F)	320
LOOP 2B TC (°F)	320
RV HEAD LEVEL (INCHES)	214
RV CORE LEVEL (%)	100
CHARGING FLOW (GPM)	88
LETDOWN FLOW (GPM)	0
SG 1 LEVEL NR (%)	16
SG 1 LEVEL WR (%)	76
SG 1 PRESSURE (PSIA)	90
SG 1 STEAM FLOW (MLBM/HR)	31E+03
SG 1 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 1 (GPM)	0
SG 1 BLOWDOWN FLOW (GPM)	0
SG 2 LEVEL NR (%)	33
SG 2 LEVEL WR (%)	81

SG 2 PRESSURE (PSIA)	90
SG 2 STEAM FLOW (MLBM/HR)	39E+03
SG 2 FEED FLOW (MLBM/HR)	0
EFW FLOW TO SG 2 (GPM)	0
SG 2 BLOWDOWN FLOW (GPM)	0
LPSI A FLOW (GPM)	0
LPSI B FLOW (GPM)	0
HPSI A FLOW (GPM)	650
HPSI B FLOW (GPM)	650
CS FLOW (1) (GPM)	2000
CS FLOW (2) (GPM)	0
SIT TANK 1A LEVEL (%)	82
SIT TANK 1B LEVEL (%)	82
SIT TANK 2A LEVEL (%)	82
SIT TANK 2B LEVEL (%)	82
SIT TANK 1A PRESSURE (PSIA)	275
SIT TANK 1B PRESSURE (PSIA)	275
SIT TANK 2A PRESSURE (PSIA)	275
SIT TANK 2B PRESSURE (PSIA)	275
CONTAINMENT PRESS. (PSIA)	20
CONTAINMENT TEMP. (°F)	150
SI SUMP LEVEL (FT)	8
CONTAINMENT SUMP (FT)	16
RWSP LEVEL (%)	10
PLNT STACK FLOW RATE (CFM)	5000
ANNULUS PRESS. ("H2O GAGE)	14
TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
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PLANT DATA | SECTION VII | TIME: 1345

REACTOR POWER (%)	8.2E-10	SG 2 PRESSURE (PSIA)	70
PZR LEVEL (%)	0	SG 2 STEAM FLOW (MLBM/HR)	9E+03
PZR PRESSURE (PSIA)	100	SG 2 FEED FLOW (MLBM/HR)	0
PZR TEMPERATURE (°F)	328	EFW FLOW TO SG 2 (GPM)	0
CET TEMPERATURE (°F)	328	SG 2 BLOWDOWN FLOW (GPM)	0
SUBCOOLED MARGIN (°F)	0	LPSI A FLOW (GPM)	0
LOOP 1 TAVE (°F)	314	LPSI B FLOW (GPM)	0
LOOP 1 TH (°F)	328	HPSI A FLOW (GPM)	650
LOOP 1A TC (°F)	300	HPSI B FLOW (GPM)	650
LOOP 1B TC (°F)	300	CS FLOW (1) (GPM)	2000
LOOP 2 TAVE (°F)	314	CS FLOW (2) (GPM)	0
LOOP 2 TH (°F)	328	SIT TANK 1A LEVEL (%)	82
LOOP 2A TC (°F)	300	SIT TANK 1B LEVEL (%)	82
LOOP 2B TC (°F)	300	SIT TANK 2A LEVEL (%)	82
RV HEAD LEVEL (INCHES)	214	SIT TANK 2B LEVEL (%)	82
RV CORE LEVEL (%)	100	SIT TANK 1A PRESSURE (PSIA)	275
CHARGING FLOW (GPM)	88	SIT TANK 1B PRESSURE (PSIA)	275
LETDOWN FLOW (GPM)	0	SIT TANK 2A PRESSURE (PSIA)	275
SG 1 LEVEL NR (%)	16	SIT TANK 2B PRESSURE (PSIA)	275
SG 1 LEVEL WR (%)	76	CONTAINMENT PRESS. (PSIA)	20
SG 1 PRESSURE (PSIA)	70	CONTAINMENT TEMP. (°F)	150
SG 1 STEAM FLOW (MLBM/HR)	1E+03	SI SUMP LEVEL (FT)	10
SG 1 FEED FLOW (MLBM/HR)	0	CONTAINMENT SUMP (FT)	16
EFW FLOW TO SG 1 (GPM)	0	RWSP LEVEL (%)	10
SG 1 BLOWDOWN FLOW (GPM)	0	PLNT STACK FLOW RATE (CFM)	5000
SG 2 LEVEL NR (%)	33	ANNULUS PRESS. ("H2O GAGE)	14
SG 2 LEVEL WR (%)	81	TURBINE POWER (MW)	0

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

METHODOLOGY AND ASSUMPTIONS USED FOR THE DEVELOPMENT OF THE IN-PLANT HEALTH PHYSICS DATA

Please see the "Basis for the Radiological Portion of the Exercise" in the Onsite Radiological Data Section.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

RADIATION MONITOR DATA PROVIDED IN THIS PACKAGE:

GRID 1 MONITORS			PAGE INPLANT-
Post LOCA B RCB East Wing +46 MSIV Area	ARM-IRE-5028S	AAS-021	5
Post LOCA A RCB West Wing +46 MSIV Area	ARM-IRE-5031S	AAS-022	6
+46 RAB HVAC Area	ARM-IRE-5002	AAA-029	7

GRID 2 MONITORS			
RCB +46 Construction Hatch Area	ARM-IRE-5015	AAA-016	8
RCB +46 Refueling Machine Area	ARM-IRE-5013	AAA-017	9
Purge Isolation B Area +46 Containment	ARM-IRE-5024S	AAS-018	10
RCB +46 RCB SW Stair Area	ARM-IRE-5014	AAS-019	11
Purge Isolation A Area +46 Containment	ARM-IRE-5025S	AAS-020	12
Purge Isolation B Area +21 Containment	ARM-IRE-5027S	AAS-023	13
Purge Isolation A Area +21 Containment	ARM-IRE-5026S	AAS-024	14
Post LOCA A East +21 RCB Wing	ARM-IRE-5030S	AAS-025	15
Post LOCA B West +21 RCB Wing	ARM-IRE-5029S	AAS-026	16
RAB +21 Hold Up Tanks Area	ARM-IRE-5019	AAA-030	17
RCB West Wing +21 Decon Room	ARM-IRE-5023A	AAA-047	18

GRID 3 MONITORS			
RCB -4 Personnel Lock Area	ARM-IRE-5018	AAA-027	19
RAB -4 Radio Chem Lab Area	ARM-IRE-5020	AAA-034	20
RAB -4 Filter Flush Tk Area	ARM-IRE-5022	AAA-036	21
Letdown Hallway Area -4 RAB	ARM-IRE-5021	AAA-038	22
LWM Filter Area -35 RAB	ARM-IRE-5009	AAA-041	23
Charging Pump Area -35 RAB	ARM-IRE-5017	AAA-044	24

GRID 4 MONITORS			
Plant Stack A PIG (Particulate)	PRM-IRE-0100.1S	EPS-131	25
Plant Stack A PIG (Iodine)	PRM-IRE-0100.1S	EIS-132	26
Plant Stack A PIG (Gas)	PRM-IRE-0100.1S	EGS-133	27

RADIATION MONITOR DATA PROVIDED IN THIS PACKAGE (CONT'D):

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

RADIATION/CONTAMINATION SURVEY RECORDS PROVIDED IN THIS PACKAGE:

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
POST-LOCA B	ARM-IRE-5028S GRID 1 AAS-021

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB E WING

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	4.43E-1	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	15	(Plume Release)
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
Release Secure	4.43 E-1	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
END		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+1 mR/hr
HIGH: 1.0 E+2 mR/hr

MONITOR RANGE:

1.0 E-1 TO 1.0 E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
POST-LOCA A	ARM-IRE-5031S GRID 1 AAS-022

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB W WING

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	2.76E-1	NORMAL
0815	↓	↓
0830	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	1.1	Plume Release
↓	↓	↓
↓	1.2	↓
↓	1.3	↓
↓	1.4	↓
↓	1.5	↓
↓	1.6	↓
↓	1.7	↓
TO END OF DRILL OR RELEASE SECURED		
	2.76E-1	NORMAL

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+1 mR/hr

HIGH: 1.0 E+2 mR/hr

MONITOR RANGE:

1.0 E-1 TO 1.0 E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
+46 RAB HVAC AREA	ARM-IRE-5002 GRID 1 AAA-029

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RAB IN HVAC AREA

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	NORMAL	NORMAL
↓	4.28 E-2	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	8.0 E+2	HIGH ALARM
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
Release Secure	4.00 E+0	ALERT
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.00 E-1 mR/hr

HIGH: 5.00 E+00 mR/hr

MONITOR RANGE:

0.01 TO 1000 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RCB +46 CONSTRUCTION HATCH AREA	ARM-IRE-5015 GRID 2 AAA-016

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB NEAR NE STAIRS

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
MONITOR OFF-LINE		
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 4.06E+00 mR/hr

HIGH: 4.88E+00 mR/hr

MONITOR RANGE:

0.1 TO 1.0E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RCB +46 REFUELING MACHINE AREA	ARM-IRE-5013 GRID 2 AAA-017

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB ON WALL S/G #1; REFUELING MACHINE AREA

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
MONITOR OFF-LINE		
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: N/A

HIGH: N/A

MONITOR RANGE:

0.1 TO 1.0E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PURGE ISOLATION B	ARM-IRE-5024S GRID 2 AAS-018

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB PM ON #1 S/G NW WALL

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.5 E2	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
1030	2.3 E5	HIGH ALARM
↓	↓	↓
RAS	5.0 E5	HIGH OFF SCALE
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.40 E+2 mR/hr

HIGH: 2.89 E+2 mR/hr

MONITOR RANGE:

2.0 E+1 TO 5.0 E+5 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RCB +46 RCB SW STAIR AREA	ARM-IRE-5014 GRID 2 AAS-019

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB NEAR SW STAIRS

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
MONITOR OFF-LINE		
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.33 E+00 mR/hr

HIGH: 1.60 E+00 mR/hr

MONITOR RANGE:

0.1 TO 1.0E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PURGE ISOLATION A	ARM-IRE-5025S GRID 2 AAS-020

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB #2 S/G S WALL

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	7.0 E1	NORMAL
↓	↓	↓
↓	↓	↓
1030	2.2 E5	HIGH ALARM
↓	↓	↓
RAS	5.0 E5	HIGH OFF SCALE
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.00 E+2 mR/hr

HIGH: 1.20 E+2 mR/hr

MONITOR RANGE:

2.0 E+1 TO 5.0 E+5 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PURGE ISOLATION B	ARM-IRE-5027S GRID 2 AAS-023

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB NE RX CAVITY WALL

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	2.0 E1	NORMAL
↓	↓	↓
↓	↓	↓
1030	2.4 E5	HIGH ALARM
↓	↓	↓
↓	↓	↓
RAS	5.0 E5	HIGH OFF SCALE
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 3.0 E+1 mR/hr

HIGH: 4.0 E+1 mR/hr

MONITOR RANGE:

2.0 E+1 TO 5.0 E+5 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PURGE ISOLATION A	ARM-IRE-5026S GRID 2 AAS-024

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB SE ON PZR WALL

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	2.0 E1	NORMAL
↓	↓	↓
↓	↓	↓
1030	2.4 E5	HIGH ALARM
↓	↓	↓
↓	↓	↓
RAS	5.0 E5	HIGH OFF SCALE
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 3.0 E+1 mR/hr

HIGH: 4.0 E+1 mR/hr

MONITOR RANGE:

2.0 E+1 TO 5.0 E+5 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
POST LOCA A	ARM-IRE-5030S GRID 2 AAS-025

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB E WING

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E-01	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	1.8 E1	↓
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+1 mR/hr

HIGH: 1.0 E+2 mR/hr

MONITOR RANGE:

1.0 E-1 TO 1.0 E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
POST LOCA B	ARM-IRE-5029S GRID 2 AAS-026

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB W WING

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E-01	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	18	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+1 mR/hr

HIGH: 1.0 E+2 mR/hr

MONITOR RANGE:

1.0 E-1 TO 1.0 E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RAB +21 HOLD UP TANKS AREA	ARM-IRE-5019 GRID 2 AAA-030

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RAB EAST OF ELEVATOR

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	4.0 E-2	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS (CVAS TRAIN "B" IN SERVICE)		
↓	30	HIGH ALARM
↓	↓	
↓	↓	
↓	↓	
↓	↓	
↓	↓	
↓	↓	
↓	↓	
↓	↓	
Release Secure	4.0 E-2	NORMAL

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.00 E-1 mR/hr

HIGH: 5.00 E+00 mR/hr

MONITOR RANGE:

0.01 TO 1000 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

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RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RCB WING +21 DECON AREA	ARM-IRE-5023A GRID 2 AAA-047

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB WEST WING IN DECON ROOM

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.2 E-1	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	10	HIGH ALARM
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.50 E+00 mR/hr
HIGH: 5.00 E+00 mR/hr

MONITOR RANGE:
0.01 TO 1000 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RCB -4 PERSONNEL LOCK AREA	ARM-IRE-5018 GRID 3 AAA-027

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RCB PERSONNEL LOCK

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
OUT OF SERVICE		
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2 x Bkg

HIGH: 2 x Bkg

MONITOR RANGE:

0.1 TO 1.0E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RAB -4 RADIO CHEM LAB AREA	ARM-IRE-5020 GRID 3 AAA-034

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RAB PRI RAD - CHEM LAB

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.26 E+0	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
WHEN PANEL IS LINED UP FOR RCS SAMPLE		
↓	750	HIGH ALARM
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 3E+0 mR/hr
HIGH: 5E+0 mR/hr

MONITOR RANGE:

0.01 TO 1000 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RAB -4 FILTER FLUSH TK AREA	ARM-IRE-5022 GRID 3 AAA-036

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RAB BLOWDOWN HX/FILTER FLUSH AREA

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	AS FOUND	NORMAL
↓	4.27E-2	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	4	ALERT ALARM
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.00 E-01 mR/hr

HIGH: 5.00 E+00 mR/hr

MONITOR RANGE:

0.01 TO 1000 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
-4 RAB LETDOWN HX AREA	ARM-IRE-5021 GRID 3 AAA-038

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RAB HALLWAY BY LETDOWN HEAT EXCHANGER

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	5.0 E-1	NORMAL
0900	4.0 E+0	ALERT
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E0 mR/hr

HIGH: 5.0 E0 mR/hr

MONITOR RANGE:

1.0 E-2 TO 1.0 E+3 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
LWM FILTER AREA	ARM-IRE-5009 GRID 3 AAA-041

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -35 RAB NEAR WASTE AND LAUNDRY FILTERS

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	7.54E-2	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	100	HIGH ALARM
↓	↓	↓
↓	↓	↓
Release Secure	4.0 E+0	ALERT
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.0 E-1 mR/hr

HIGH: 5.0 E0 mR/hr

MONITOR RANGE:

1.0 E-2 TO 1.0 E+3 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION

CHARGING PUMP AREA

TAG ID #/GRID ID #

ARM-IRE-5017
GRID 3
AAA-044

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -35 RAB CHARGING PUMP AREA

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.75E-1	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	10	ALERT
↓	↓	↓
↓	↓	↓
Release Secured	2.0 E+0	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 3.0 E0 mR/hr
HIGH: 3.0 E+1 mR/hr

MONITOR RANGE:

1.0 E-1 TO 1.0 E+4 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK PIG A PARTICULATE	PRM-IRE-0100.1S GRID 4 EPS-131

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-11	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1 E-5	OFF SCALE HIGH ALARM
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
	RELEASE SECURED	
Filter Change	1.0 E-11	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 9.93E-8 μCi/cc

HIGH: 9.93E-6 μCi/cc

MONITOR RANGE:

1.0 E-11 TO 1.0 E-5 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK PIG A IODINE	PRM-IRE-0100.1S GRID 4 EIS-132

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-9	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1 E-3	OFF SCALE HIGH ALARM
↓	↓	↓
RAS +30	↓	↓
↓	↓	↓
RAS +60	↓	↓
↓	↓	↓
RAS +90	↓	↓
↓	↓	↓
RAS +120	↓	↓
↓	↓	↓
RAS +150	↓	↓
↓	↓	↓
RAS +180	↓	↓
↓	↓	↓
↓	RELEASE SECURED	
Filter Change	1.0 E-9	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.90E-9 µCi/cc

HIGH: 1.90E-7 µCi/cc

MONITOR RANGE:

1.0 E-9 TO 1.0 E-3 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK PIG A GAS	PRM-IRE-0100.1S GRID 4 EGS-133

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	4.0 E-6	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1.0 E-1	PEGGED HIGH
↓	↓	↓
RAS +30	↓	↓
↓	↓	↓
RAS +60	↓	↓
↓	↓	↓
RAS +90	↓	↓
↓	↓	↓
RAS +120	↓	↓
↓	↓	↓
RAS +150	↓	↓
↓	↓	↓
RAS +180	↓	↓
↓	↓	↓
↓	RELEASE SECURED	DECREASING
Release Secure +15	1.0 E-3	ALERT
Release Secure +30	3.0 E-5	ALERT
END	4.0 E-6	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.60E-5 µCi/cc

HIGH: 1.30E-3 µCi/cc

MONITOR RANGE:

1.0 E-7 TO 1.0 E-1 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK PIG B PARTICULATE	PRM-IRE-0100.2S GRID 4 EPS-141

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-11	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1 E-5	OFF SCALE HIGH ALARM
↓	↓	↓
RAS +30	↓	↓
↓	↓	↓
RAS +60	↓	↓
↓	↓	↓
RAS +90	↓	↓
↓	↓	↓
RAS +120	↓	↓
↓	↓	↓
RAS +150	↓	↓
↓	↓	↓
RAS +180	↓	↓
↓	↓	↓
↓	RELEASE SECURED	
Filter Change	1.0 E-11	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 9.93E-8 μCi/cc

HIGH: 9.93E-6 μCi/cc

MONITOR RANGE:

1.0 E-11 TO 1.0 E-5 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK PIG B IODINE	PRM-IRE-0100.2S GRID 4 EIS-142

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-9	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1 E-3	OFF SCALE HIGH ALARM
↓	↓	↓
RAS +30	↓	↓
↓	↓	↓
RAS +60	↓	↓
↓	↓	↓
RAS +90	↓	↓
↓	↓	↓
RAS +120	↓	↓
↓	↓	↓
RAS +150	↓	↓
↓	↓	↓
RAS +180	↓	↓
↓	↓	↓
↓	RELEASE SECURED	
Filter Change	1.0 E-9	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.90E-9 μCi/cc

HIGH: 1.90E-7 μCi/cc

MONITOR RANGE:

1.0 E-9 TO 1.0 E-3 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK PIG B GAS	PRM-IRE-0100.2S GRID 4 EGS-143

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	4.0 E-6	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1.0 E-1	PEGGED HIGH
↓	↓	↓
RAS +30	↓	↓
↓	↓	↓
RAS +60	↓	↓
↓	↓	↓
RAS +90	↓	↓
↓	↓	↓
RAS +120	↓	↓
↓	↓	↓
RAS +150	↓	↓
↓	↓	↓
RAS +180	↓	↓
↓	↓	↓
↓	RELEASE SECURED	DECREASING
Release Secure +15	1.0 E-3	ALERT
Release Secure +30	3.0 E-5	ALERT
END	4.0 E-6	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.60E-5 μCi/cc

HIGH: 1.30E-3 μCi/cc

MONITOR RANGE:

1.0 E-7 TO 1.0 E-1 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
CIRC WATER DISCHARGE	PRM-IRE-1900 GRID 4 ELL-203

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -35 RCB WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/ml)	MISCELLANEOUS NOTES
0700	NORMAL	NORMAL
↓	1.82 E-8	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	4.5 E-3	HIGH ALARM
↓	↓	↓
↓	↓	↓
TO END		(High Due to Radiation
		Levels in Wing Area)

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.0 E-7 µCi/ml

HIGH: 1.00E-04 µCi/ml

MONITOR RANGE:

1E-8 TO 1E-2 µCi/ml

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
CONT. ATMOS. PIG PARTICULATE	PRM-IRE-0100Y GRID 5 PPS-311

DRILL #: 95-04

D[illegible] 07/12/95

LOCATION: -4 RCB W WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-11	NORMAL
↓	↓	↓
↓	↓	↓
1030	1.0 E-5	HIGH ALARM
↓	↓	OFF SCALE
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
[illegible] END OF DRILL		

T[illegible] OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 9.25E-9 µCi/cc

HIGH: 9.25E-8 µCi/cc

MONITOR RANGE:

1.0 E-11 TO 1.0 E-5 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
CONT. ATMOS. PIG IODINE	PRM-IRE-0100Y GRID 5 PIS-312

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RCB W WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-9	NORMAL
↓	↓	↓
↓	↓	↓
1030	1.0 E-3	HIGH ALARM
↓	↓	OFF SCALE
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA ( )
PROCESS (X)
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 4.13E-7 µCi/cc

HIGH: 4.13E-6 µCi/cc

MONITOR RANGE:

1.0 E-9 TO 1.0 E-3 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
CONT. ATMOS. PIG GAS	PRM-IRE-0100Y GRID 5 PGS-313

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RCB W WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	1.85E-4	NORMAL
↓	↓	↓
↓	↓	↓
1030	1.0 E-1	HIGH ALARM
↓	↓	OFF SCALE
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.33E-3 μCi/cc

HIGH: 1.33E-2 μCi/cc

MONITOR RANGE:

1.0 E-7 TO 1.0 E-1 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #	
HVAC DUCT PIG PARTICULATE	PRM-IRE-6710B GRID 5 PPP-341	DRILL #: 95-04 DATE: 07/12/95

LOCATION: +21 RCB WEST WING BY ELECTRICAL PENETRATION

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-11	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	SYSTEM ISOLATED	LOSS OF PROCESS FLOW
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
END		

TYPE OF MONITOR:

AREA ( )
PROCESS (X)
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.50E-08 µCi/cc
HIGH: 6.00E-08 µCi/cc

MONITOR RANGE:

1.0 E-11 TO 1.0 E-5 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
HVAC DUCT PIG IODINE	PRM-IRE-6710B GRID 5 PII-342

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB WEST WING BY ELECTRICAL PENETRATION

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-9	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	SYSTEM ISOLATED	LOSS OF PROCESS FLOW
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
END		

TYPE OF MONITOR:

AREA ( )
PROCESS (X)
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.00E-9 µCi/cc
HIGH: 2.00E-8 µCi/cc

MONITOR RANGE:

1.0 E-9 TO 1.0 E-3 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
HVAC DUCT PIG GAS	PRM-IRE-6710B GRID 5 PGG-343

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +21 RCB WEST WING BY ELECTRICAL PENETRATION

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	9.24 E-7	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	5.0 E-5	ALERT
↓	↓	LOSS OF PROCESS FLOW
↓	↓	Due to Rad Levels from
↓	↓	-4 Wing Area
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
END		

TYPE OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.50E-05 µCi/cc

HIGH: 1.00E-04 µCi/cc

MONITOR RANGE:

1.0 E-7 TO 1.0 E-1 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
HVAC DUCT PIG PARTICULATE	PRM-IRE-6710D GRID 5 PPP-351

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RAB HVAC AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-11	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	SYSTEM ISOLATED	LOSS OF PROCESS FLOW
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.50E-8 μCi/cc

HIGH: 6.00E-8 μCi/cc

MONITOR RANGE:

1.0 E-11 TO 1.0 E-5 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
HVAC DUCT PIG IODINE	PRM-IRE-6710D GRID 5 PII-352

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RAB HVAC AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-9	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	SYSTEM ISOLATED	LOSS OF PROCESS FLOW
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 5.00E-9 µCi/cc

HIGH: 2.00E-8 µCi/cc

MONITOR RANGE:

1.0 E-9 TO 1.0 E-3 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
HVAC DUCT PIG GAS	PRM-IRE-6710D GRID 5 PGG-353

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RAB HVAC AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.96 E-6	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	3.0 E-5	ALERT
↓	↓	LOSS OF PROCESS FLOW
↓	↓	Due to General Area
↓	↓	Background Level from
↓	↓	CVAS System
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.50E-5 µCi/cc

HIGH: 1.00E-4 µCi/cc

MONITOR RANGE:

1.0 E-7 TO 1.0 E-1 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RX BLDG. SUMP	PRM-IRE-6777 GRID 5 PLL-401

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RCB E WING ON CONT. WALL

TIME (ACTUAL)	MONITOR READING (μCi/ml)	MISCELLANEOUS NOTES
0700	3.12E-4	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	SYSTEM ISOLATED	LOSS OF SAMPLE FLOW
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

TYPE OF MONITOR:

AREA ( )

PROCESS (X)

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.10E-2 μCi/ml

HIGH: 4.20E-2 μCi/ml

MONITOR RANGE:

1.0 E-8 TO 1.0 E-2 μCi/ml

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #	
S/G BLOWDOWN	PRM-IRE-0100X GRID 5 PLL-407	DRILL #: 95-04 DATE: 07/12/95

LOCATION: -4 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/ml)	MISCELLANEOUS NOTES
0700	3.63 E-7	NORMAL
↓	↓	↓
0900	2.3 E-4	HIGH ALARM
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	5.7 E-4	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA ( )
PROCESS (X)
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 1.0 E-6 µCi/ml
HIGH: 5.0 E-6 µCi/ml

MONITOR RANGE:

1E-7 TO 1E-1 µCi/ml

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK WRGM LOW RANGE	PRM-IRE-0110 GRID 6 EGG-514

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	2.40 E-6	NORMAL
↓	↓	↓
↓	↓	↓
RAS	1.0 E-1	PEGGED HIGH
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO RELEASE SECURE		↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 1.0 E-4 μCi/cc

HIGH: 1.0 E-3 μCi/cc

MONITOR RANGE:

1.0 E-7 TO 1.0 E-1 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #	
PLANT STACK WRGM MID RANGE	PRM-IRE-0110 GRID 6 EGG-515	DRILL #: 95-04 DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (µCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-4	OFF SCALE LOW
↓	↓	↓
↓	↓	↓
RAS	3.4 E+1	HIGH
↓	↓	↓
RAS +30	3.2 E+1	↓
↓	↓	↓
RAS +60	↓	↓
↓	↓	↓
RAS +90	4.2 E+1	↓
↓	↓	↓
RAS +120	4.4 E+1	↓
↓	↓	↓
RAS +150	5.1 E+1	↓
↓	↓	↓
RAS +180	5.6 E+1	↓
TO RELEASE SECURE		↓
Release Secure	3.2 E+1	DECREASING
Release Secure +15	7.6 E-1	NORMAL
Release Secure +30	5.9 E-2	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 1.0 E+0 µCi/cc

HIGH: 1.0 E+1 µCi/cc

MONITOR RANGE:

1.0 E-4 TO 1.0 E+2 µCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK WRGM HI RANGE	PRM-IRE-0110 GRID 6 EGG-516

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/cc)	MISCELLANEOUS NOTES
0700	1.0 E-1	OFF SCALE LOW
↓	↓	↓
↓	↓	↓
RAS	3.4 E+1	NORMAL
↓	↓	↓
RAS +30	3.2 E+1	↓
↓	↓	↓
RAS +60	3.2 E+1	↓
↓	↓	↓
RAS +90	4.2 E+1	↓
↓	↓	↓
RAS +120	4.4 E+1	↓
↓	↓	↓
RAS +150	5.1 E+1	↓
↓	↓	↓
RAS +180	5.6 E+1	↓
TO RELEASE SECURE		↓
Release Secure	3.2 E+1	DECREASING
Release Secure +15	7.6 E-1	NORMAL
Release Secure +30	1.0 E-1	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 1.0 E+2 μCi/cc

HIGH: 1.0 E+3 μCi/cc

MONITOR RANGE:

1.0 E-1 TO 1.0 E+5 μCi/cc

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
PLANT STACK WRGM EFFLUENT	PRM-IRE-0110 GRID 6 EGG-517

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING AREA

TIME (ACTUAL)	MONITOR READING (μCi/sec)	MISCELLANEOUS NOTES
0700	1.7 E+2	NORMAL
↓	↓	↓
↓	↓	↓
RAS	5.865 E+7	HIGH ALARM
↓	↓	↓
RAS +30	5.656 E+7	↓
↓	↓	↓
RAS +60	5.557 E+7	↓
↓	↓	↓
RAS +90	7.26 E+7	↓
↓	↓	↓
RAS +120	7.78 E+7	↓
↓	↓	↓
RAS +150	9.04 E+7	↓
↓	↓	↓
RAS +180	9.81 E+7	↓
TO RELEASE SECURE		↓
Release Secure	5.55 E+7	DECREASING
Release Secure +15	1.3 E+6	ALERT
Release Secure +30	1.0 E+5	NORMAL

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 4.00 E+5 μCi/sec

HIGH: 1.82 E+6 μCi/sec

MONITOR RANGE:

1.23 E0 TO 1.23 E+12 μCi/sec

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
RECIRC. PENETRATION HRM	ARM-IRE-5200 GRID 6 AAA-548

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +46 RCB CENTRAL WING ON CONT. BLDG. WALL

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E+01	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	5.0 E+02	ALERT
↓	↓	↓
↓	↓	↓
RAS +90	6.50 E+02	↓
↓	↓	↓
↓	↓	↓
RAS +150	8.0 E+02	↓
↓	↓	↓
Release Secure	1.0 E+01	NORMAL
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT (X)

ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 2.00 E+2 mR/hr

HIGH: 1.00 E+3 mR/hr

MONITOR RANGE:

1.0 E+1 TO 1.0 E+7 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #	
+21 RAB PASS AREA HRM	ARM-IRE-5204 GRID 6 AAA-549	DRILL #: 95-04 DATE: 07/12/95

LOCATION: +21 RCB E WING AREA

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E+1	NORMAL
0830	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	1.8 E+1	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+2 mR/hr
HIGH: 1.0 E+3 mR/hr

MONITOR RANGE:

1.0 E+1 TO 1.0 E+7 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
ELEC. EQUIPMENT AREA HRM	ARM-IRE-5207 GRID 6 AAA-550

DRILL #: 95-04

DATE: 07/12/95

LOCATION: ÷21 RAB/RCB AT EDGE OF SWITCHGEAR ROOM B

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E+1	NORMAL
↓	↓	READINGS
↓	↓	↓
↓	↓	↓
↓	↓	↓
AT RAS	1.8 E+1	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
TO END OF DRILL		

TYPE OF MONITOR:

AREA (X)

PROCESS ( )

EFFLUENT ( )

ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.00 E+2 mR/hr

HIGH: 1.00 E+3 mR/hr

MONITOR RANGE:

1.0 E+1 TO 1.0 E+7 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
SIS PENETRATION HRM	ARM-IRE-5202 GRID 6 AAA-553

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -35 RCB CENTRAL WING AREA BEHIND STAIRS

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E+1	NORMAL
↓	↓	↓
↓	↓	↓
↓	↓	↓
RAS	3.0 E+6	HIGH ALARM
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+2 mR/hr
HIGH: 1.0 E+3 mR/hr

MONITOR RANGE:

1.0 E+1 TO 1.0 E+7 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION: -4 WING HRM

TAG ID #/GRID ID #: ARM-IRE-5201
GRID 6
AAA-557

DRILL #: 95-04

DATE: 07/12/95

LOCATION: -4 RCB PERSONNEL AIR LOCK

TIME (ACTUAL)	MONITOR READING (mR/hr)	MISCELLANEOUS NOTES
0700	1.0 E+1	NORMAL
0900	4.0 E+01	↓
↓	↓	↓
1030	8.0 E+2	ALERT ALARM
RAS	5.0 E+3	HIGH ALARM
↓	↓	↓
↓	↓	↓
TO END		

TYPE OF MONITOR:

AREA (X)
PROCESS ( )
EFFLUENT ( )
ACCIDENT ( )

ALARM SETPOINTS:

ALERT: 2.0 E+2 mR/hr
HIGH: 1.0 E+3 mR/hr

MONITOR RANGE:

1.0 E+1 TO 1.0 E+7 mR/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
A CONTAINMENT HRM	ARM-IRE-5400 AS GRID 6 CAS-561

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +99 RCB CATWALK E SIDE

TIME (ACTUAL)	MONITOR READING (R/hr)	MISCELLANEOUS NOTES
0700	1.0 E+0	NORMAL
↓	↓	↓
↓	↓	↓
1030	2.4 E+2	NORMAL
↓	↓	↓
1045	1.2 E+3	ALERT
↓	↓	↓
1100	2.0 E+3	↓
↓	↓	↓
1145	2.9 E+4	HIGH
1200	2.8 E+4	↓
↓	↓	↓
1230	2.7 E+4	↓
↓	↓	↓
1300	3.6 E+4	↓
↓	↓	↓
1330	3.8 E+4	↓
↓	↓	↓
1400	4.4 E+4	↓
↓	↓	↓
1430	4.8 E+4	↓

TYPE OF MONITOR:

AREA ( )

PROCESS ( )

EFFLUENT ( )

ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 5.0 E+2 R/hr

HIGH: 5.0 E+3 R/hr

MONITOR RANGE:

1.0 E+0 TO 1.0 E+8 R/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

RADIATION MONITORS

DESCRIPTION	TAG ID #/GRID ID #
B CONTAINMENT HRM	ARM-IRE-5400 BS GRID 6 CAS-562

DRILL #: 95-04

DATE: 07/12/95

LOCATION: +99 RCB CATWALK W SIDE

TIME (ACTUAL)	MONITOR READING (R/hr)	MISCELLANEOUS NOTES
0700	1.0 E+0	NORMAL
↓	↓	↓
↓	↓	↓
1030	2.4 E+2	↓
↓	↓	↓
1045	1.2 E+3	ALERT
↓	↓	↓
1100	2.0 E+3	↓
↓	↓	↓
1145	2.9 E+4	HIGH
1200	2.8 E+4	↓
↓	↓	↓
1230	2.7 E+4	↓
↓	↓	↓
1300	3.6 E+4	↓
↓	↓	↓
1330	3.8 E+4	↓
↓	↓	↓
1400	4.4 E+4	↓
↓	↓	↓
1430	4.8 E+4	↓

TYPE OF MONITOR:

AREA ( )
PROCESS ( )
EFFLUENT ( )
ACCIDENT (X)

ALARM SETPOINTS:

ALERT: 5.0 E+2 R/hr
HIGH: 5.0 E+3 R/hr

MONITOR RANGE:

1.0 E+0 TO 1.0 E+8 R/hr

* When the monitor is off scale high or low, the reading will remain at the upper or lower level of the instrument range.

IN PLANT RADIOLOGICAL DATA

HP-SM-04

LOCATION: +46 HVAC AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						(1) Point 1 is contact on doors to HVAC Area.
0830	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						(2) Point 2 & 3 are General Area Readings near CVAS System.
0900	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						(3) Point 4 is reading around RAD Monitor.
0930	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						(4) Point 5 is Dose Rates between Trains "A" & "B" of CVAS.
1000	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1030	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1100	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1130	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1200	RAS BEGINS	RAS BEGINS	RAS BEGINS	RAS BEGINS	RAS BEGINS						
1230	800	8000	5000	800	20,000						
1300	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1330	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1400	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1430	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1500	TO END OF DRILL										
END											

RADIATION/CONTAMINATION SURVEY RECORD

HPS#

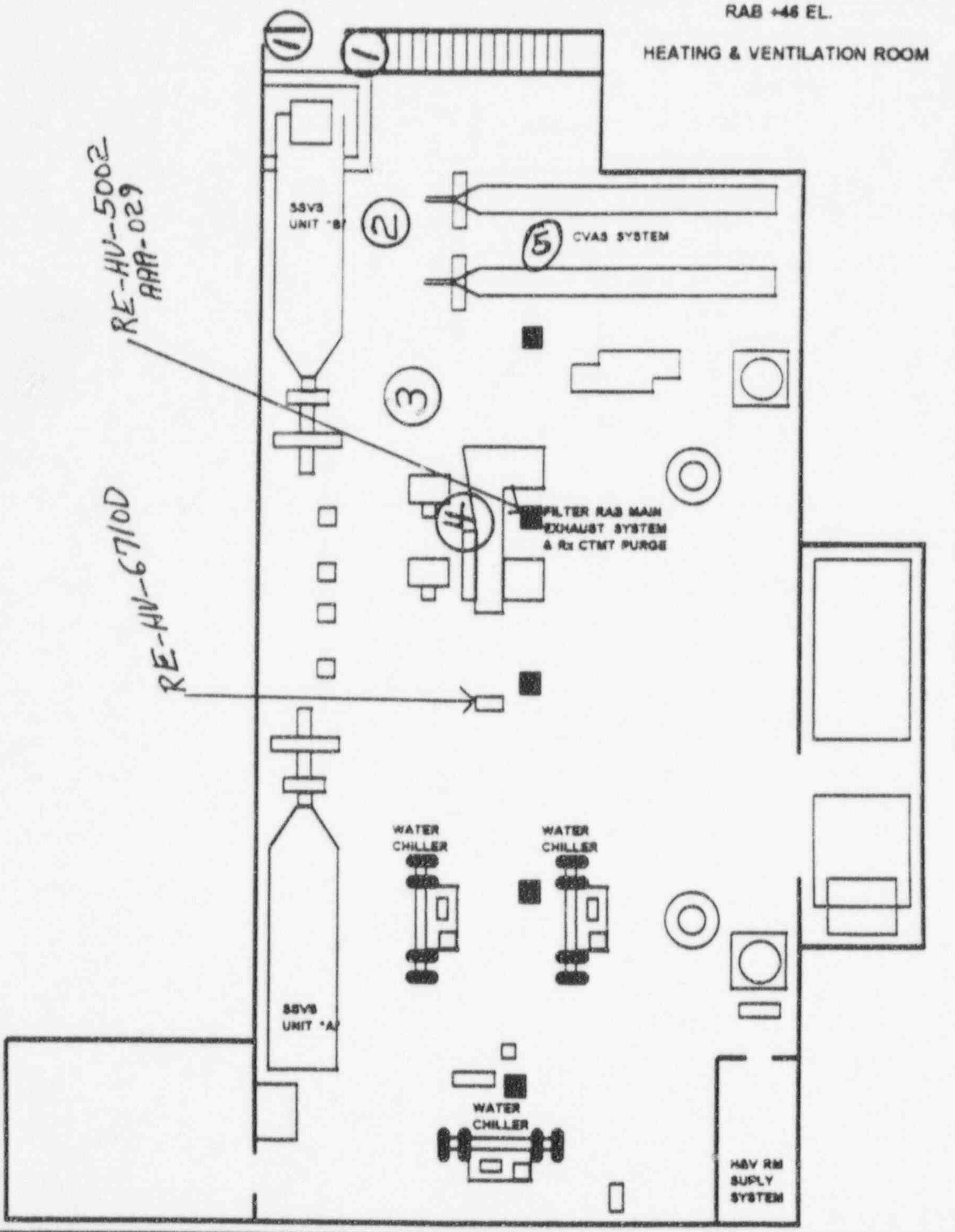
DATE__________________ TIME__________
REACTOR POWER________%
SURVEYED BY____________________
REVIEWED BY____________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC				

RAB +46 EL.

HEATING & VENTILATION ROOM



PT	DPM / 100 Cm² BETA/GAMMA	ALPHA
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PT	HP	CCPM / LAS
A		
B		
C		
D		
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F		
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H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ○ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RAD[illegible]OGICAL DATA

HP-SM-08

LOCATION: +46 RCB E WING

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND								(1) Point 1 is just inside of East Wing Area.
0830	↓ ↓	↓ ↓	↓ ↓								(2) Point 2 & 3 are General Area Dose Rates from plume shine.
0900	↓ ↓	↓ ↓	↓ ↓								
0930	↓ ↓	↓ ↓	↓ ↓								
1000	↓ ↓	↓ ↓	↓ ↓								
1030	↓ ↓	↓ ↓	↓ ↓								
1100	↓ ↓	↓ ↓	↓ ↓								
1130		RAS									
1200	15	15	15								
1230	↓ ↓	↓ ↓	↓ ↓								
1300	↓ ↓	↓ ↓	↓ ↓								
1330	↓ ↓	↓ ↓	↓ ↓								
1400	↓ ↓	↓ ↓	↓ ↓	RELEASE SECURE							
1430	AS FOUND	AS FOUND	AS FOUND								
1500	↓ ↓	↓ ↓	↓ ↓								
END											

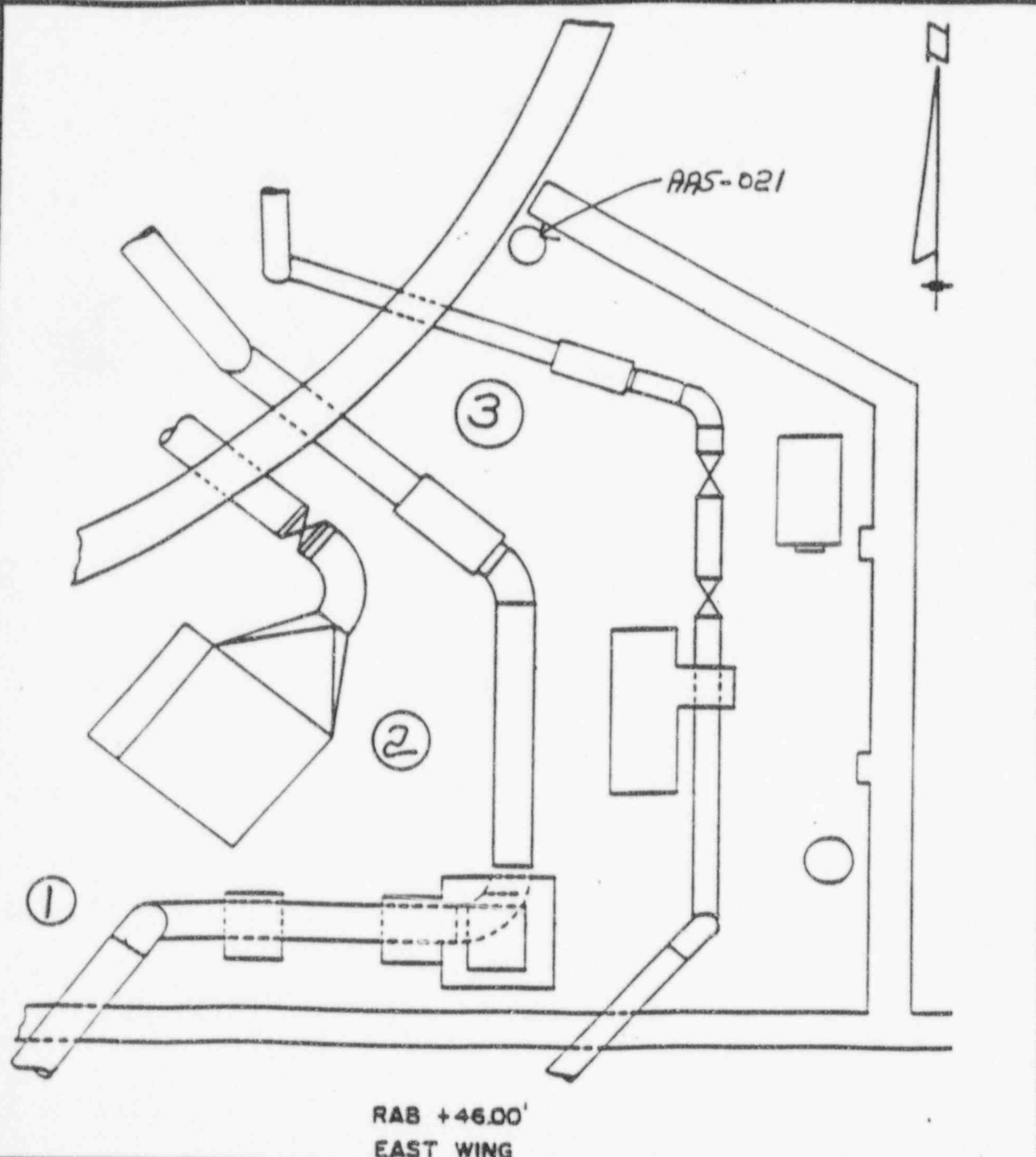
RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE________ TIME________
REACTOR POWER______%
SURVEYED BY________
REVIEWED BY________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC				



PT	DPM/100 CM² BETA-GAMMA	ALPHA
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PT	HP	CCPM / LAS
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1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ○ REPRESENTS DISC SMEARS: □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
"HP" REPRESENTS HOT PARTICLE: MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-09

LOCATION: +46 RCB CENTER WING AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND								
0830	↓ ↓	↓ ↓	↓ ↓								
0900	↓ ↓	↓ ↓	↓ ↓								
0930	↓ ↓	↓ ↓	↓ ↓								
1000	↓ ↓	↓ ↓	↓ ↓								
1030	↓ ↓	↓ ↓	↓ ↓								
1100	↓ ↓	↓ ↓	↓ ↓								
1130	AT RAS	AT RAS	AT RAS								
1200	5	100	300								
1230	↓ ↓	↓ ↓	↓ ↓								
1300	↓ ↓	↓ ↓	↓ ↓								
1330	↓ ↓	↓ ↓	↓ ↓								
1400	↓ ↓	↓ ↓	↓ ↓								
1430	↓ ↓	↓ ↓	↓ ↓								
1500	RELEASE SECURE										
END	AS FOUND	AS FOUND	AS FOUND								

Plant Stack Activity Level at RAS

Nuclide	Activity (uCi/cc)	Nuclide	Activity (uCi/cc)	Nuclide	Activity (uCi/cc)
Kr-85m	6.80E-01	Ba-140	4.80E-04	I-131	2.20 E-01
Kr-85	1.30E+00	La-140	4.60E-04	I-132	1.80E-01
Kr-87	5.90E-02	Cs-134	7.90E-05	I-133	2.20E-01
Kr-88	1.00E+00	Cs-136	4.50E-05	I-134	1.30E-01
Kr-89	2.60E-03	Cs-137	4.00E-05	I-135	2.00E-01
Xe-131m	1.20E+00	Cs-138	2.60E-04		
Xe-133m	2.20E+00	Nb-95	3.40E-05		
Xe-133	2.30E+00	Zr-95	7.10E-05		
Xe-135m	1.40E-01				
Xe-135	6.50E+00				
Xe-137	2.20E-02				
Xe-138	1.00E+00				

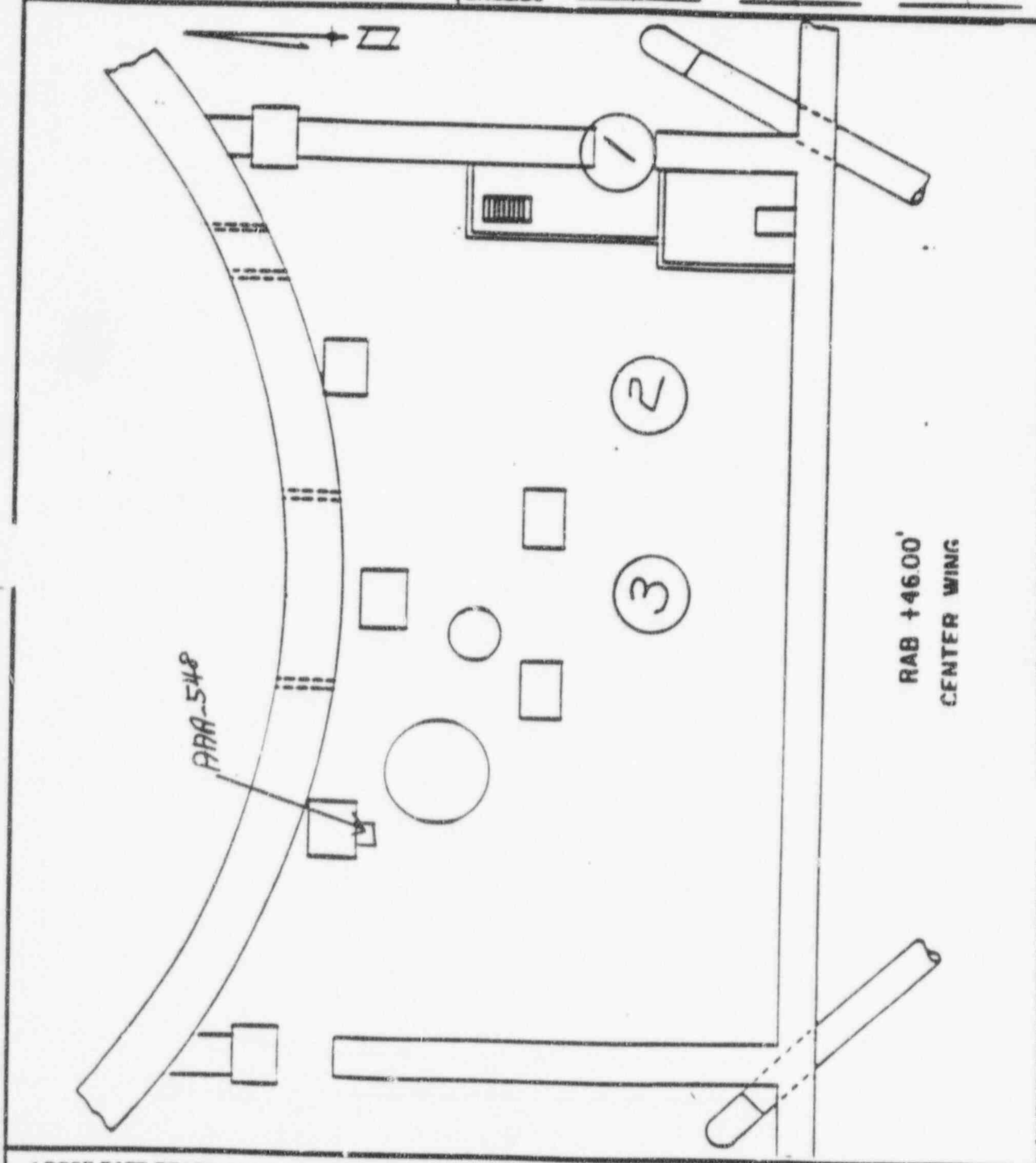
Sample dose rate at Contact = 1400 mR/hr
Sample dose rate at 18 inches = 85 mR/hr

RADIATION/CONTAMINATION SURVEY RECORD | HPS#

DATE______________ TIME__________
REACTOR POWER________%
SURVEYED BY____________________
REVIEWED BY____________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL. DUE				
BKGD/DC				



PT	DPM/100 CM² BETA/GAMMA	ALPHA
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PT	HP	CCPM / LAS
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H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS: ▭ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE: MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-19

LOCATION: +21 RAB WEST WING AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND				(1) Point 6 is contact on vent line.
0830	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				(2) Point 7 is 3 foot reading on line.
0900	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
0930	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1000	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1030	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1100	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1130	RAS BEGINS	RAS BEGINS	RAS BEGINS	RAS BEGINS	RAS BEGINS	RAS BEGINS	RAS BEGINS				
1200	18	18	18	18	18	500	50				
1230	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1300	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1330	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1400	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1430	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1500	END OF DRILL					Becomes "As Found" after leak is secured.					
END											

INPLANT-61

RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE__________________TIME__________

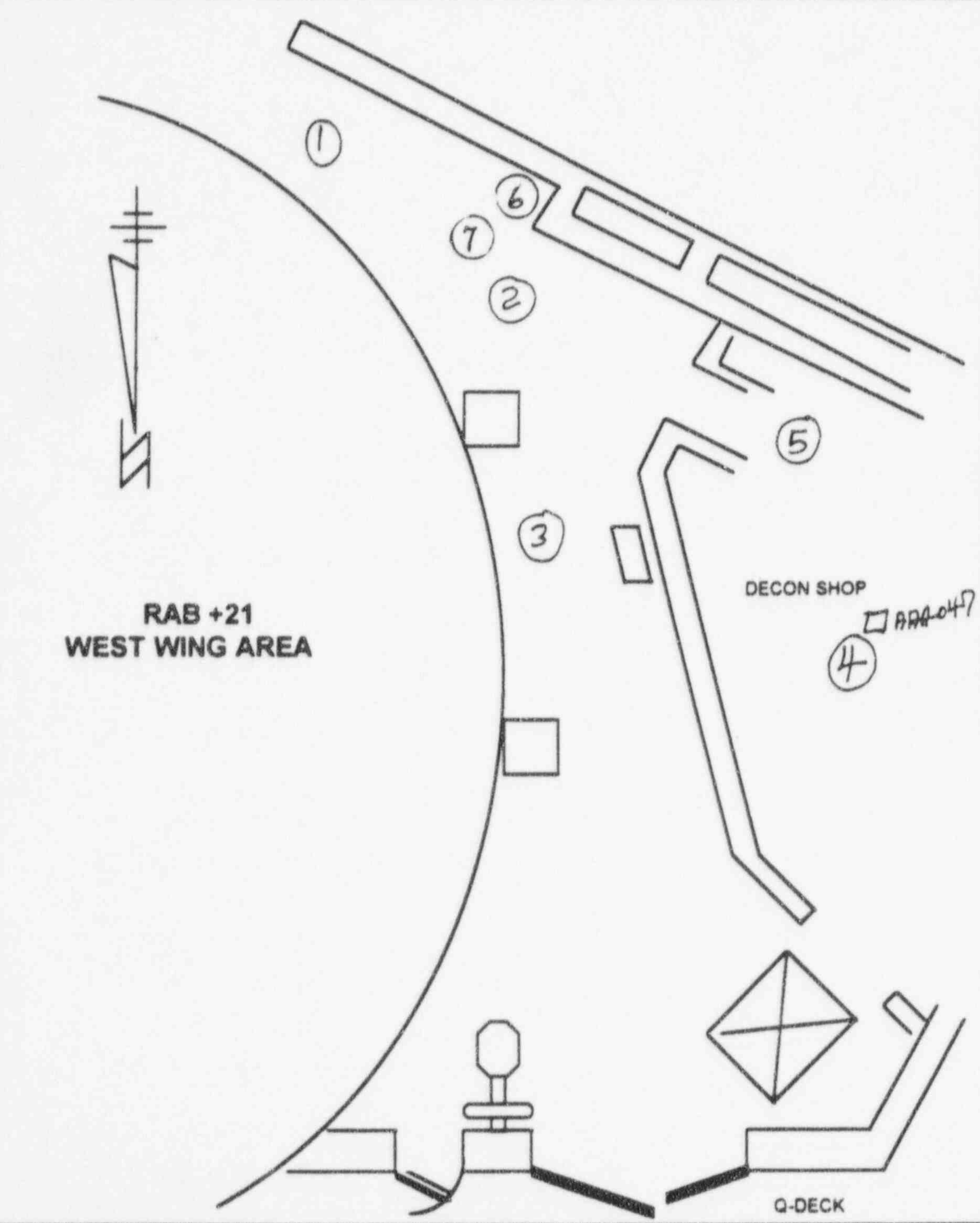
REACTOR POWER_______%

SURVEYED BY______________________

REVIEWED BY______________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC	/	/	/	/



PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
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PT	HP	CCPM / LAS
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G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-27

LOCATION: +21 RAB HALLWAYS

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND							(1) Point 1 is contact with E-23-SB Vent. Line.
0830	↓ ↓	↓ ↓	↓ ↓	↓ ↓							(2) Points 2 are directly below this line.
0900	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
0930	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1000	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1030	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1100	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1130	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1200	AT RAS (IF CVAS TRAIN "B" IN SERVICE)										
1230	500	30	2	20							
1300	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1330	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1400	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1430	↓ ↓	↓ ↓	↓ ↓	↓ ↓							
1500	(RELEASE SECURE OR ISOLATION OF THIS VENTILATION SYSTEM)										
END	AS FOUND	AS FOUND	AS FOUND	AS FOUND							

RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE_______________ TIME__________

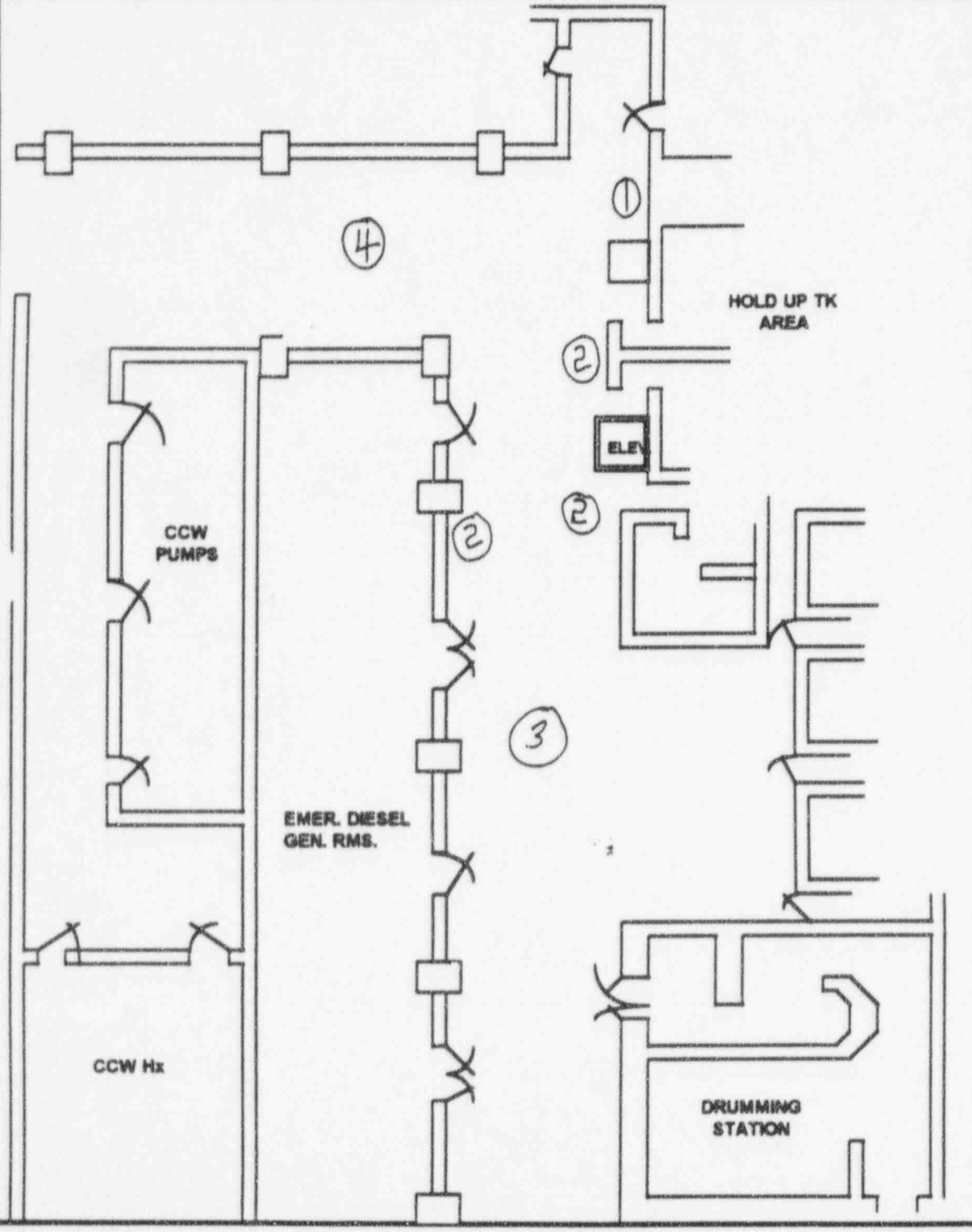
REACTOR POWER_______%

SURVEYED BY____________________

REVIEWED BY____________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC	/	/	/	/



PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
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PT	HP	CCPM / LAS
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K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS ☐ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X-CONTACT DOSE RATE

X/Y =

Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-29

LOCATION: +21 RAB EAST WING

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND					(1) Point 1 is waist high at any point above the letdown pipe chase.
0830	↓	↓	↓	↓	↓	↓					(2) Point 2 and 3 are General Area Dose Rates.
0900	2	↓	↓	↓	↓	↓	[SHAFT SEIZURE]				Note: No Airborne and Contamination present.
0930	↓	↓	↓	↓	↓	↓					(3) Point 4 is contact on vent line.
1000	↓	↓	↓	↓	↓	↓					(4) Point 5 is 3 foot reading from line.
1030	↓	↓	↓	↓	↓	↓					(5) Point 6 is below vent line and at door.
1100	↓	↓	↓	↓	↓	↓					
1130	RAS	RAS	RAS	RAS	RAS	RAS					
1200	18	18	18	500	50	100					
1230	↓	↓	↓	↓	↓	↓					
1300	↓	↓	↓	↓	↓	↓					
1330	↓	↓	↓	↓	↓	↓					
1400	↓	↓	↓	↓	↓	↓					
1430	↓	↓	↓	↓	↓	↓					
1500	↓	↓	↓	"As Found" after leak is secured.							
END											

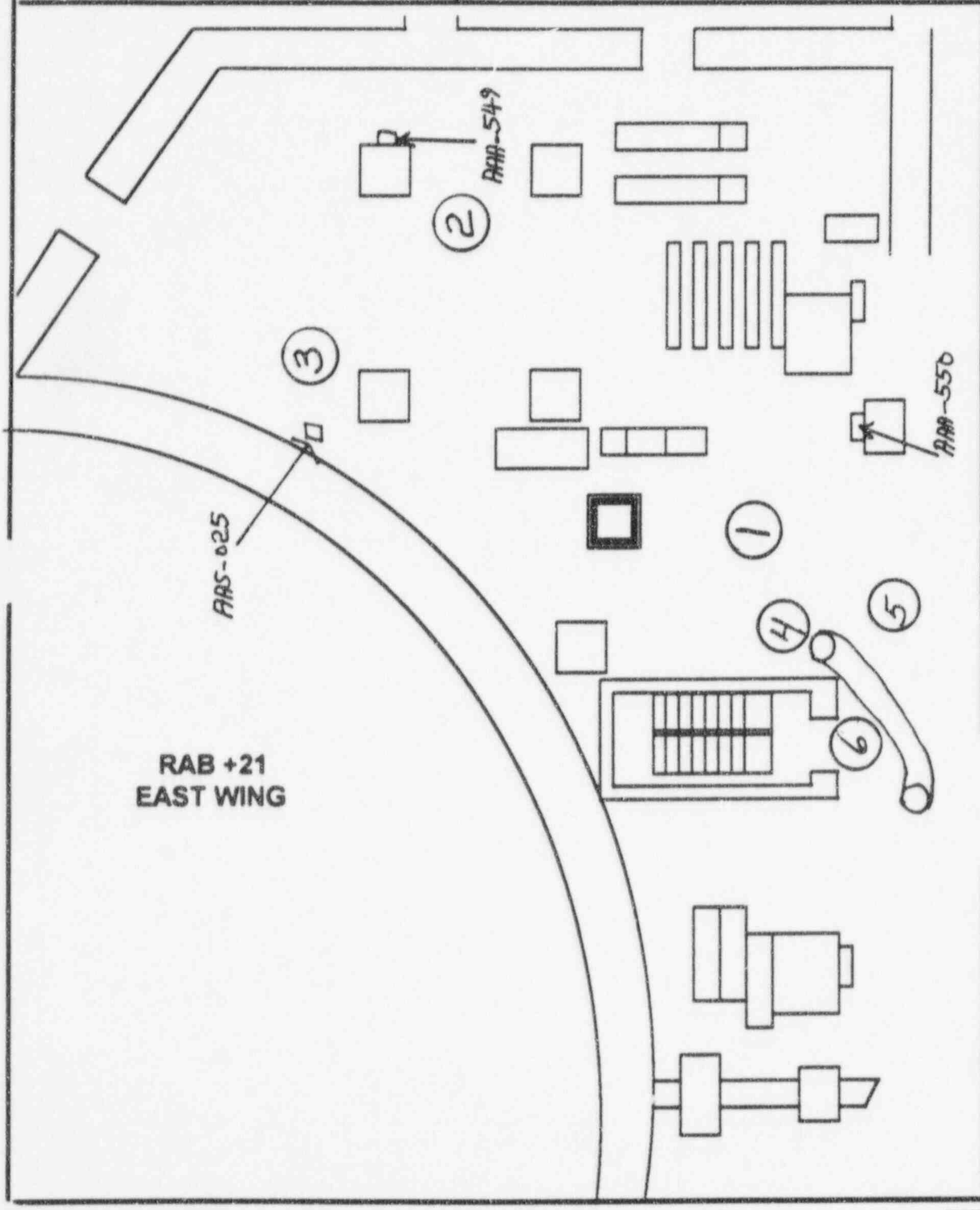
RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE__________ TIME__________
REACTOR POWER______%
SURVEYED BY__________
REVIEWED BY__________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL. DUE				
BKGD/DC				



PT	DPM / 100 Cm² BETA/GAMMA	ALPHA
1		
2		
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4		
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23		
24		
25		

PT	HP	CCPM / LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1.DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3."HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-37

LOCATION: -4 RAB RADIOCHEMISTRY LAB

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						(1) Point 1 is contact reading on panel.
0830	↓	↓	↓	↓	↓						(2) Point 2 is at Rad Monitor Detector.
0900	↓	↓	↓	↓	↓						(3) Point 3 is at entrance to Sample Panel Room.
0930	WHEN PANEL IS LINED UP FOR RCS SAMPLE										(4) Point 4 is contact on door.
1000	10000	750	40	10	4500						(5) Point 5 is 30 cm reading from panel.
1030	↓	↓	↓	↓	↓						
1100	↓	↓	↓	↓	↓						
1130	↓	↓	↓	↓	↓						
1200	↓	↓	↓	↓	↓						
1230	↓	↓	↓	↓	↓						
1300	↓	↓	↓	↓	↓						
1330	↓	↓	↓	↓	↓						
1400	↓	↓	↓	↓	↓						
1430	↓	↓	↓	↓	↓						
1500	↓	↓	↓	↓	↓						
END											

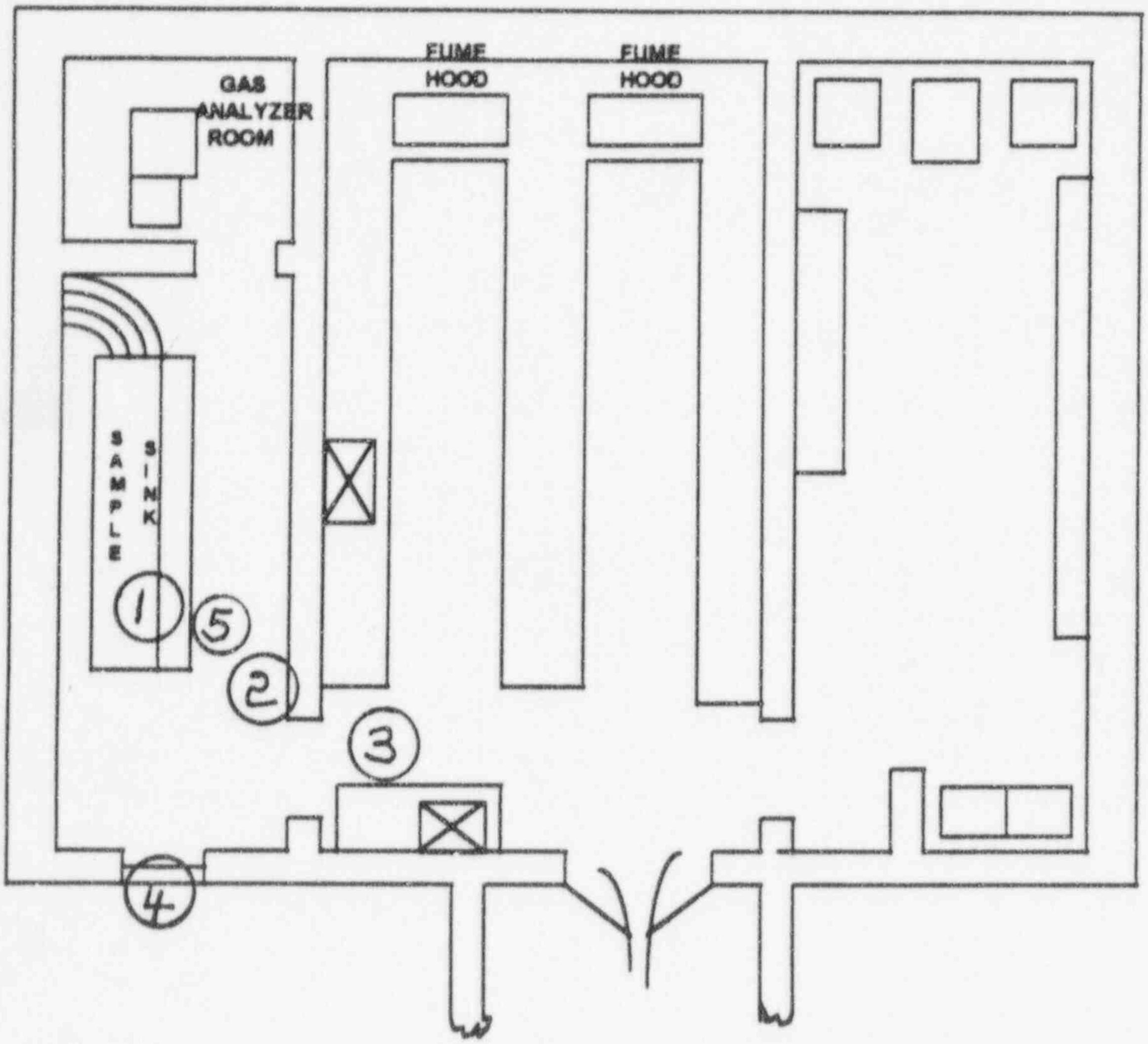
RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE________________TIME__________
REACTOR POWER_______%
SURVEYED BY____________________
REVIEWED BY____________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC				



PT	DPM / 100 Cm² BETA/GAMMA	ALPHA
1		
2		
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PT	HP	CCPM / LAS
A		
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G		
H		
I		
J		
K		

RAB -4 RADIOCHEMISTRY LAB

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-38

LOCATION: -4 LAUNDRY ROOM AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						(1) Point 1 is contact on Vent. Line.
0830	↓	↓	↓	↓	↓						
0900	↓	↓	↓	↓	↓						
0930	↓	↓	↓	↓	↓						
1000	↓	↓	↓	↓	↓						
1030	↓	↓	↓	↓	↓						
1100	↓	↓	↓	↓	↓						
1130	↓	↓	↓	↓	↓						
1200	AT RAS (IF VENTILATION TRAIN IN SERVICE)										
1230	500	10	15	30	30						
1300	↓	↓	↓	↓	↓						
1330	↓	↓	↓	↓	↓						
1400	↓	↓	↓	↓	↓						
1430	↓	↓	↓	↓	↓						
1500	TO ISOLATION OF THIS VENTILATION SYSTEM OR RELEASE SECURE										
END	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						

RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE________________TIME_________

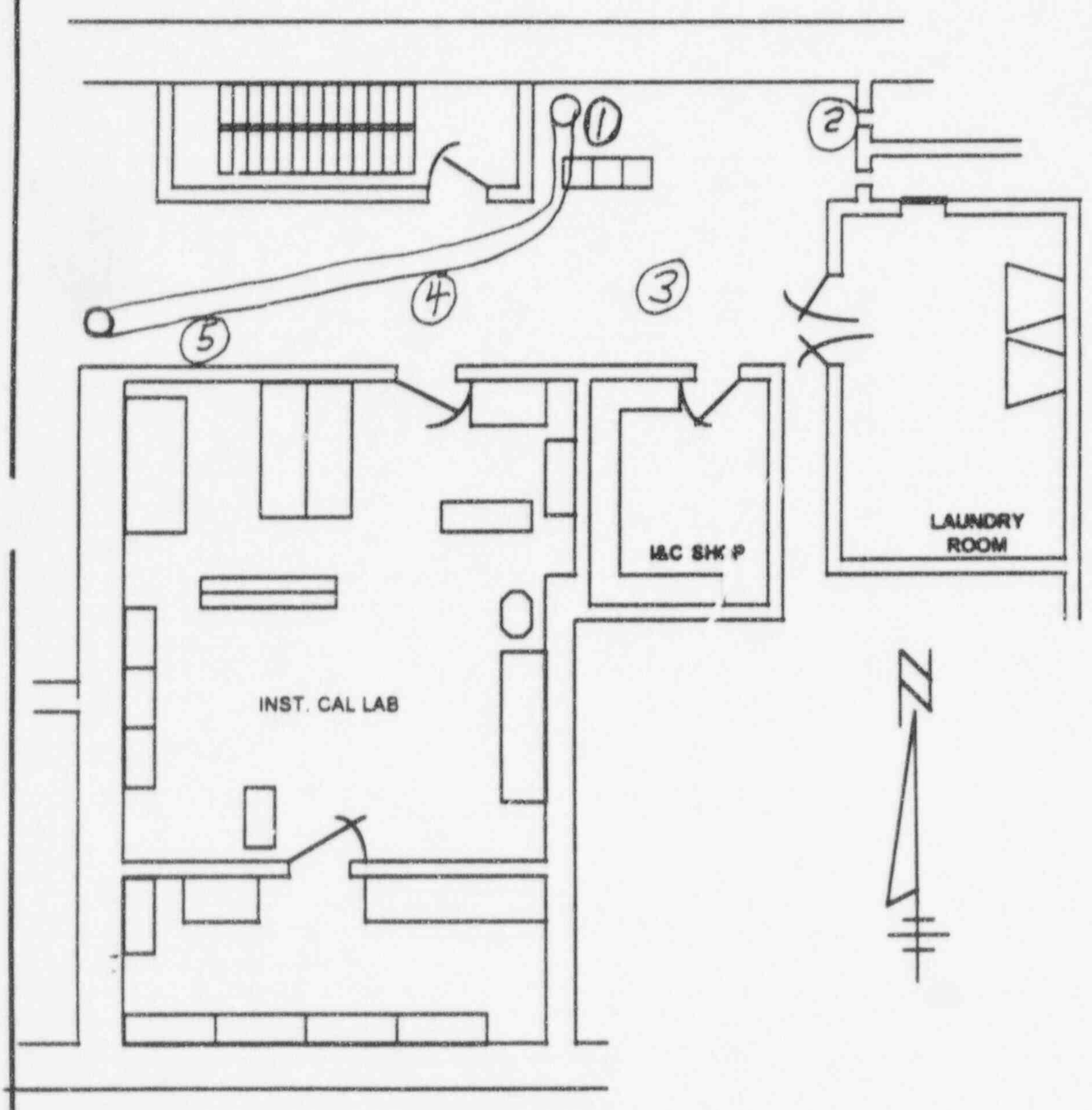
REACTOR POWER_______%

SURVEYED BY__________________

REVIEWED BY__________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC	/	/	/	/



PT	DPM / 100 Cm² BETA/GAMMA	ALPHA
1		
2		
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22		
23		
24		
25		

PT	HP	CCPM / LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

RAB -4 LAUNDRY ROOM AREA

1.DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED

2. ○ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION

3."HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-41

LOCATION: -4 RAB LETDOWN HEAT EXCH. AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND								(1) Point 2 is by Rad Monitor.
0830	↓ ↓	↓ ↓	↓ ↓								(2) Point 3 is contact on door to Letdown Heat Exchanger Room.
0900	RCP SHAFT SEIZURE										
0930	<2	4	120								
1000	↓ ↓	↓ ↓	↓ ↓								
1030	↓ ↓	↓ ↓	↓ ↓								
1100	↓ ↓	↓ ↓	↓ ↓								
1130	↓ ↓	↓ ↓	↓ ↓								
1200	↓ ↓	↓ ↓	↓ ↓								
1230	↓ ↓	↓ ↓	↓ ↓								
1300	↓ ↓	↓ ↓	↓ ↓								
1330	↓ ↓	↓ ↓	↓ ↓								
1400	↓ ↓	↓ ↓	↓ ↓								
1430	↓ ↓	↓ ↓	↓ ↓								
1500	TO END OF DRILL										
END											

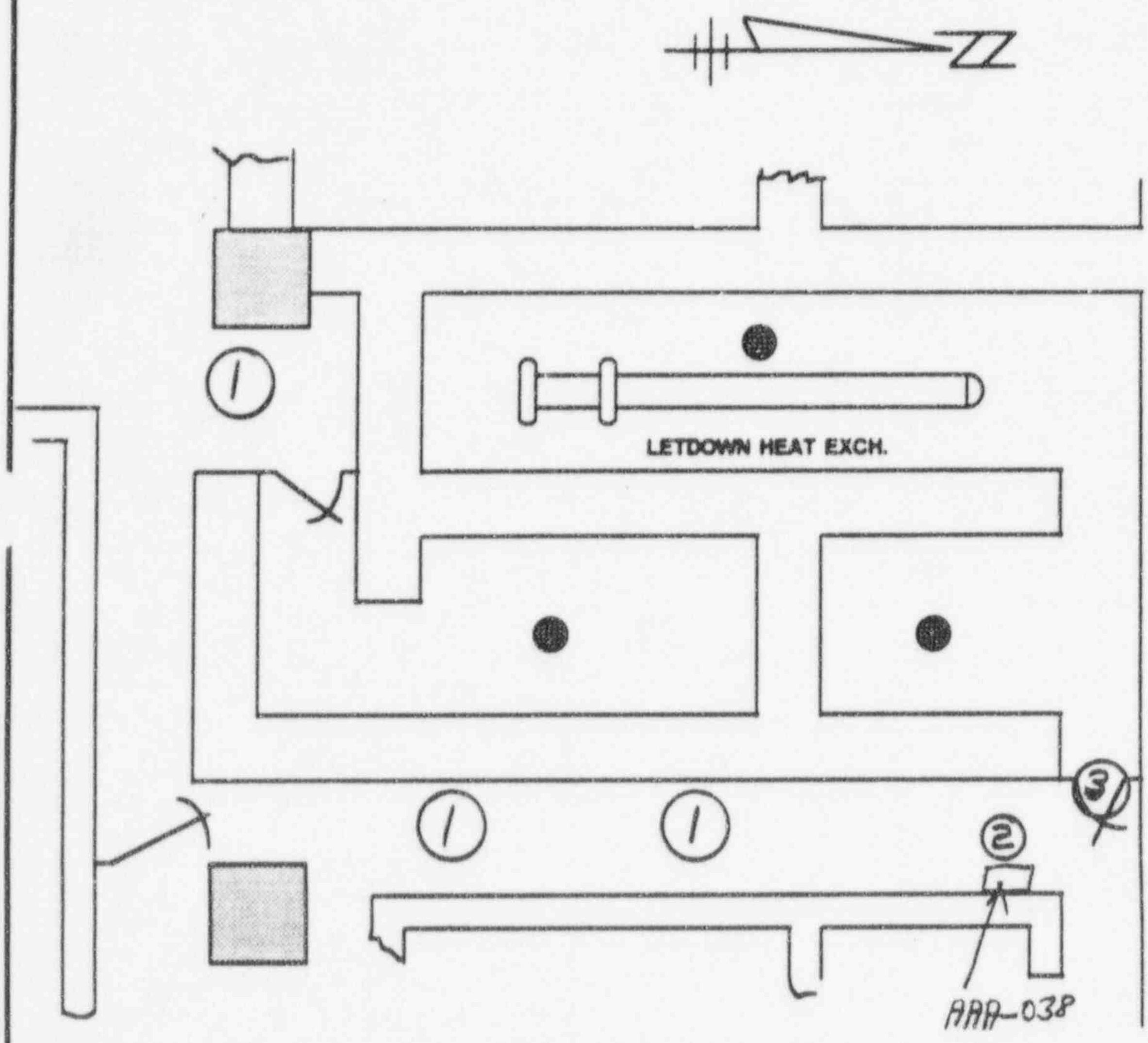
RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE________________TIME__________
REACTOR POWER_______%
SURVEYED BY____________________
REVIEWED BY____________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC				



RAB -4
LETDOWN HEAT EXCH.
AREA

PT	DPM / 100 Cm² BETA/GAMMA	ALPHA
1		
2		
3		
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5		
6		
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22		
23		
24		
25		

PT	HP	CCPM / LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ○ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

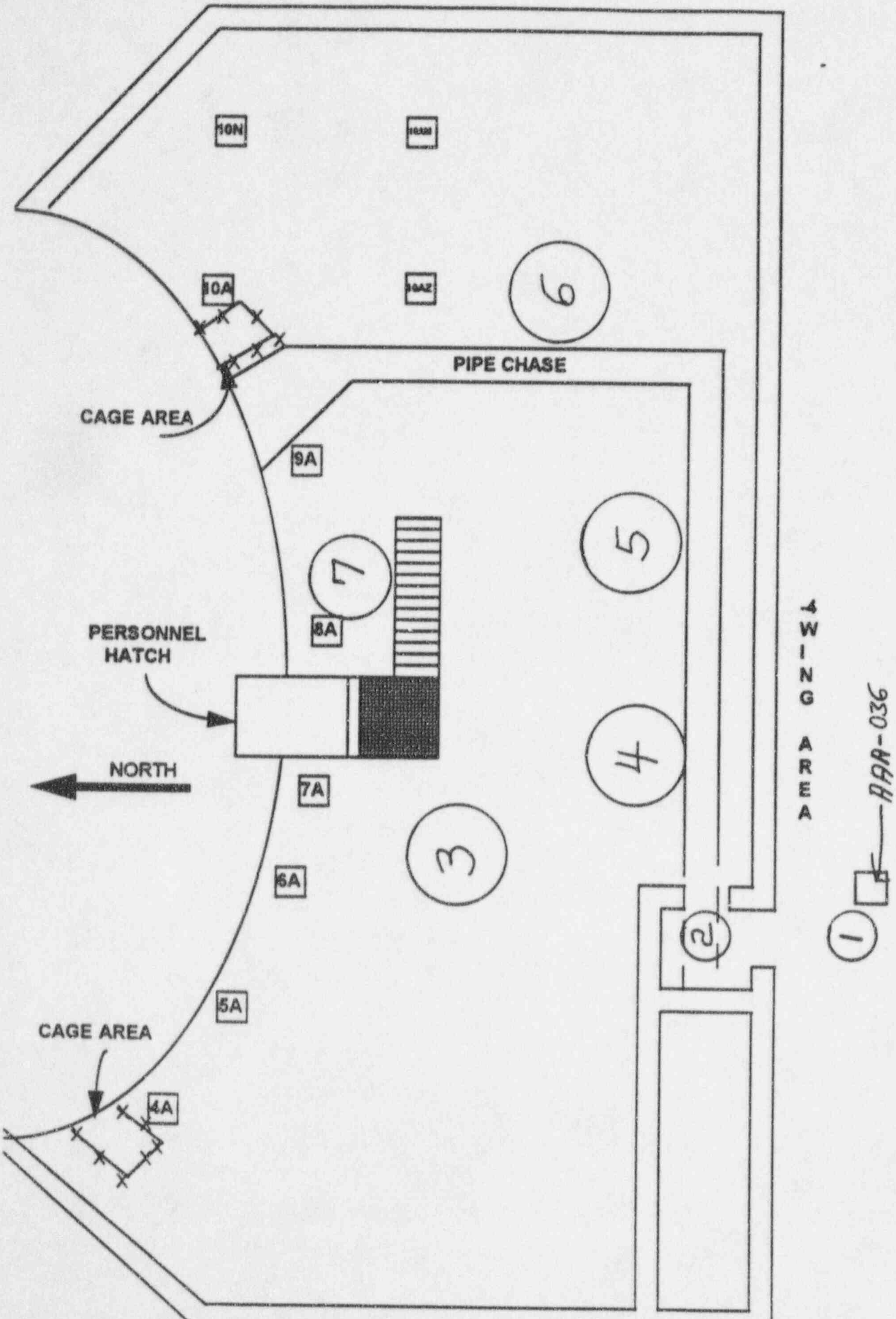
X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-48

LOCATION: -4 RAB CENTER WING AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND				(1) Point 1 is Dose Rates by Rad Monitor.
0830	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				(2) Contact on outer door #151 is 50 mR/hr.
0900	AT RCP SHAFT SEIZURE										
0930	AS FOUND	1	5	40	40	40	10				
1000	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1030	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1100	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1130	AT RAS										
1200	4	300	1000	1000	1000	1000	5000				
1230	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1300	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1330	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1400	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1430	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓				
1500	TO END OF DRILL										
END											


10N
10A
10AZ
6
PIPE CHASE
CAGE AREA
9A
5
7
8A
PERSONNEL HATCH
4
NORTH
7A
3
6A
WING AREA
AAA-036
2
1
5A
CAGE AREA
4A

<u>IN PLANT RADIOLOGICAL DATA</u>

HP-SM-52

LOCATION: <u>-15.5 RAB SAFEGUARD VALVE GALLERIES</u>

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND					(1) Contact on floor is 25 mR/hr.
0830	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					(2) There is <u>No</u> Airborne or contamination concerns in this area.
0900	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					(3) Point 5 is contact on vent line.
0930	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					(4) Point 6 is reading on platform.
1000	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1030	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1100	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1130	AT RAS	AT RAS	AT RAS	AT RAS	AT RAS	AT RAS					
1200	5	5	5	5	500	100					
1230	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1300	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1330	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1400	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1430	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓					
1500	END OF DRILL				Becomes "As Found" after leak is secured.						
END											

INPLANT-75

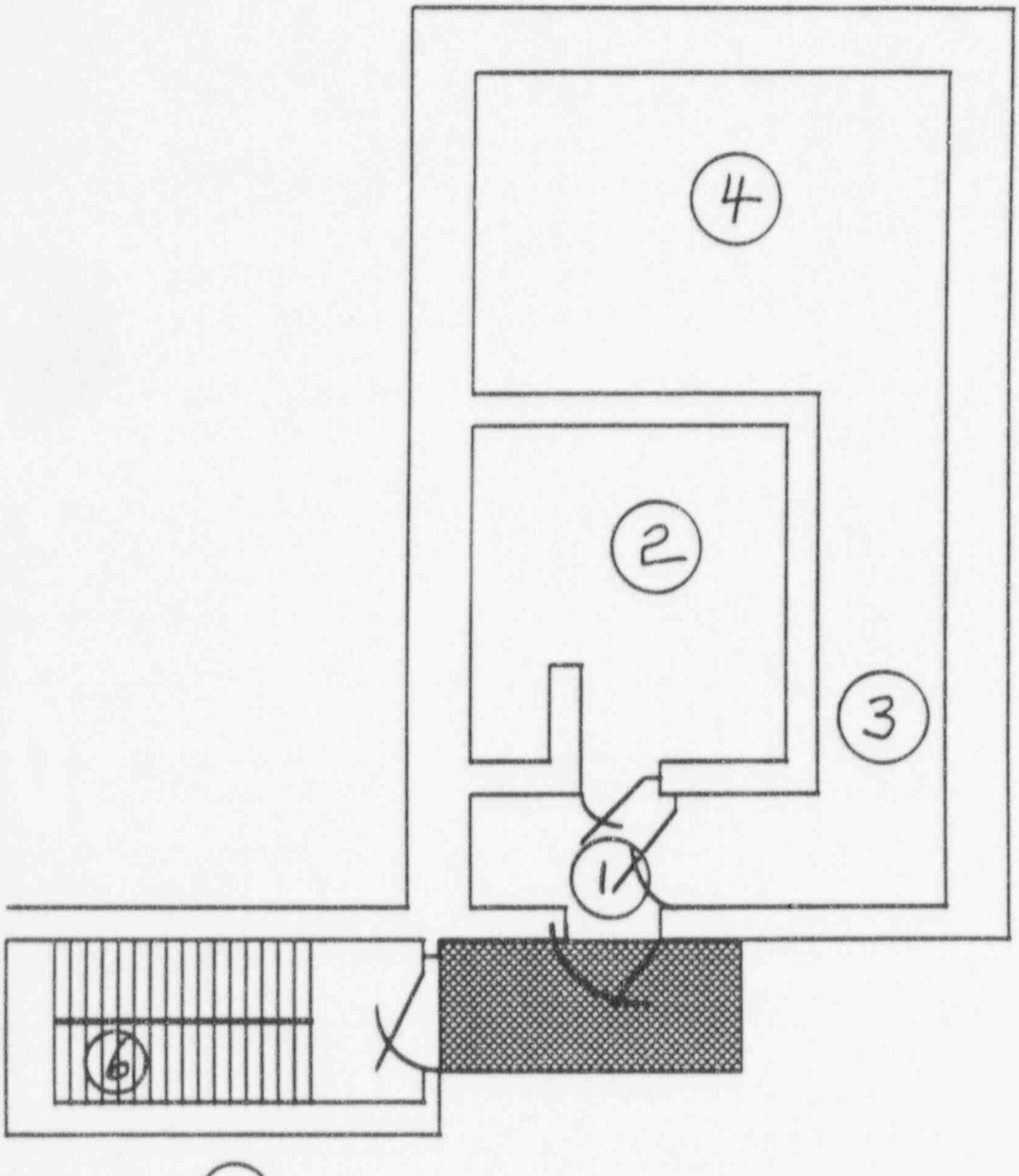
RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE__________________TIME__________
REACTOR POWER________%
SURVEYED BY______________________
REVIEWED BY______________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC				



RAB -15.5 SAFEGAURD VALVE GALLERIES

PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
1		
2		
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24		
25		

PT	HP	CCPM / LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1.DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ○ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3."HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

<u>IN PLANT RADIOLOGICAL DATA</u>

HP-SM-65

LOCATION: <u>-35 RAB CHARGING PUMPS</u>

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						(1) Points are based on which charging pump is running or has run since the RCP Shaft Seizure.
0830	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						(2) Point 4 is on charging line in rooms.
0900	RCP SHAFT SEIZURE										Note: No Airborne or Contamination in rooms.
0930	1	10	30	4000	100						
1000	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1030	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1100	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1130	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1200	10	↓ ↓	↓ ↓	↓ ↓	↓ ↓	(RAS)					
1230	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1300	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1330	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1400	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1430	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓						
1500	1	2	↓ ↓	↓ ↓	↓ ↓	RELEASE SECURE					
END											

RADIATION / CONTAMINATION SURVEY RECORD

HPS#

DATE__________ TIME________
REACTOR POWER ______%
SUEVEYED BY______________
REVIEWED BY______________

INSTRUMENT USED				
TYPE				
HP NO.				
CAL DUE				
BKG/DC	/	/	/	/

PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
1		
2		
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4		
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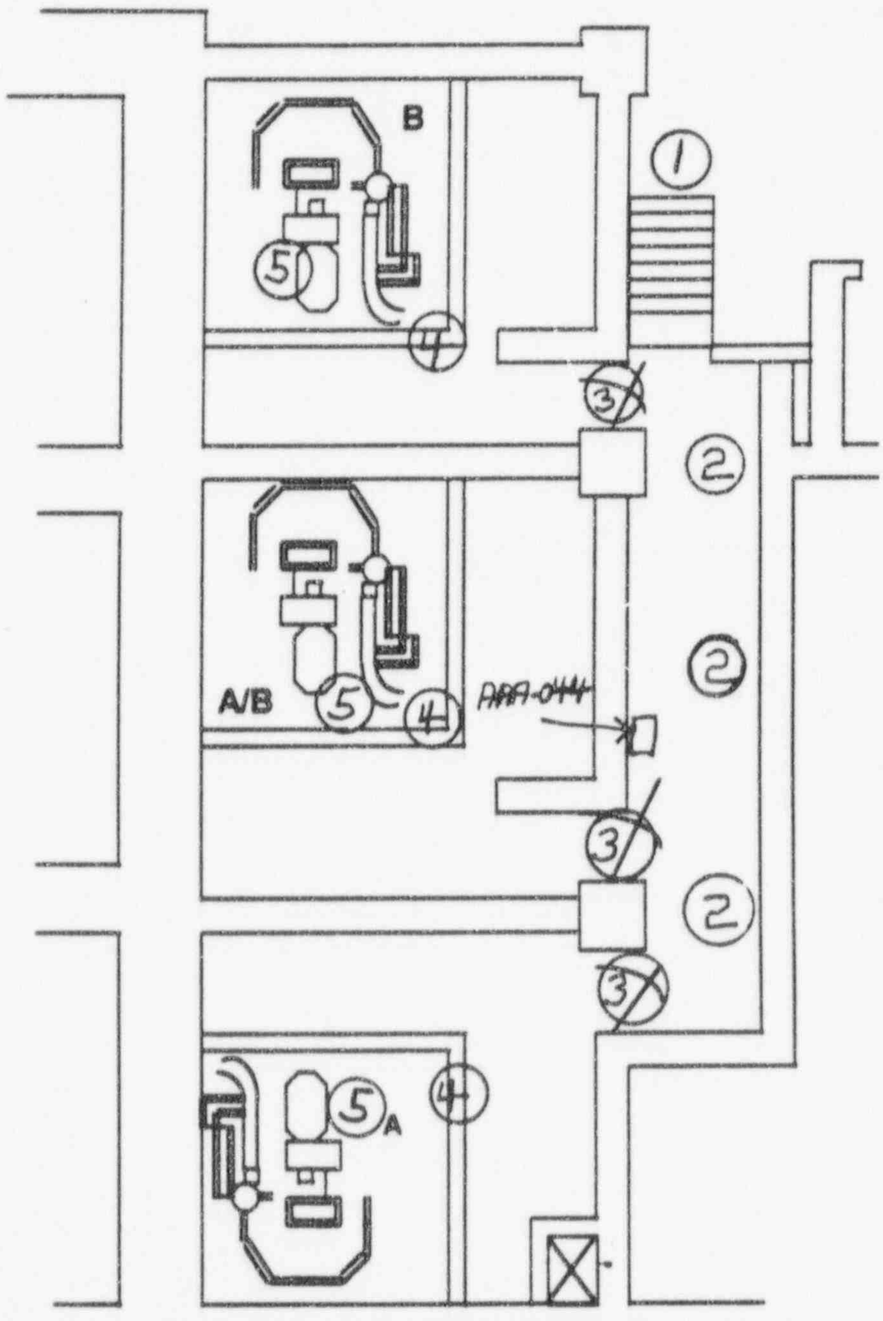


-35 CHARGING PUMPS

PT	HP	CCPM/LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS ☐ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X / Y =
X = CONTACT DOSE RATE
Y = DOSE RATE @ 30 CM

<u>IN PLANT RADIOLOGICAL DATA</u>

HP-SM-66A

LOCATION: <u>SAFEGUARD ROOM "A"</u>

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) R/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND								(1) Point 1 is contact and 30 cm reading on outer door to Safeguard "A" Room.
0830	↓ ↓	↓ ↓	↓ ↓								(2) Point 2 is inner door reading.
0900	↓ ↓	↓ ↓	↓ ↓								(3) Point 3 is general area reading after RAS. There will be steam in this room.
0930	↓ ↓	↓ ↓	↓ ↓								
1000	↓ ↓	↓ ↓	↓ ↓								
1030	↓ ↓	↓ ↓	↓ ↓								
1100	↓ ↓	↓ ↓	↓ ↓								
1130		AT RAS									
1200	800	3000	3,000 R/hr								
1230	↓ ↓	↓ ↓	↓ ↓								
1300	↓ ↓	↓ ↓	↓ ↓								
1330	↓ ↓	↓ ↓	↓ ↓								
1400	↓ ↓	↓ ↓	↓ ↓								
1430	↓ ↓	↓ ↓	↓ ↓								
1500	END										
END											

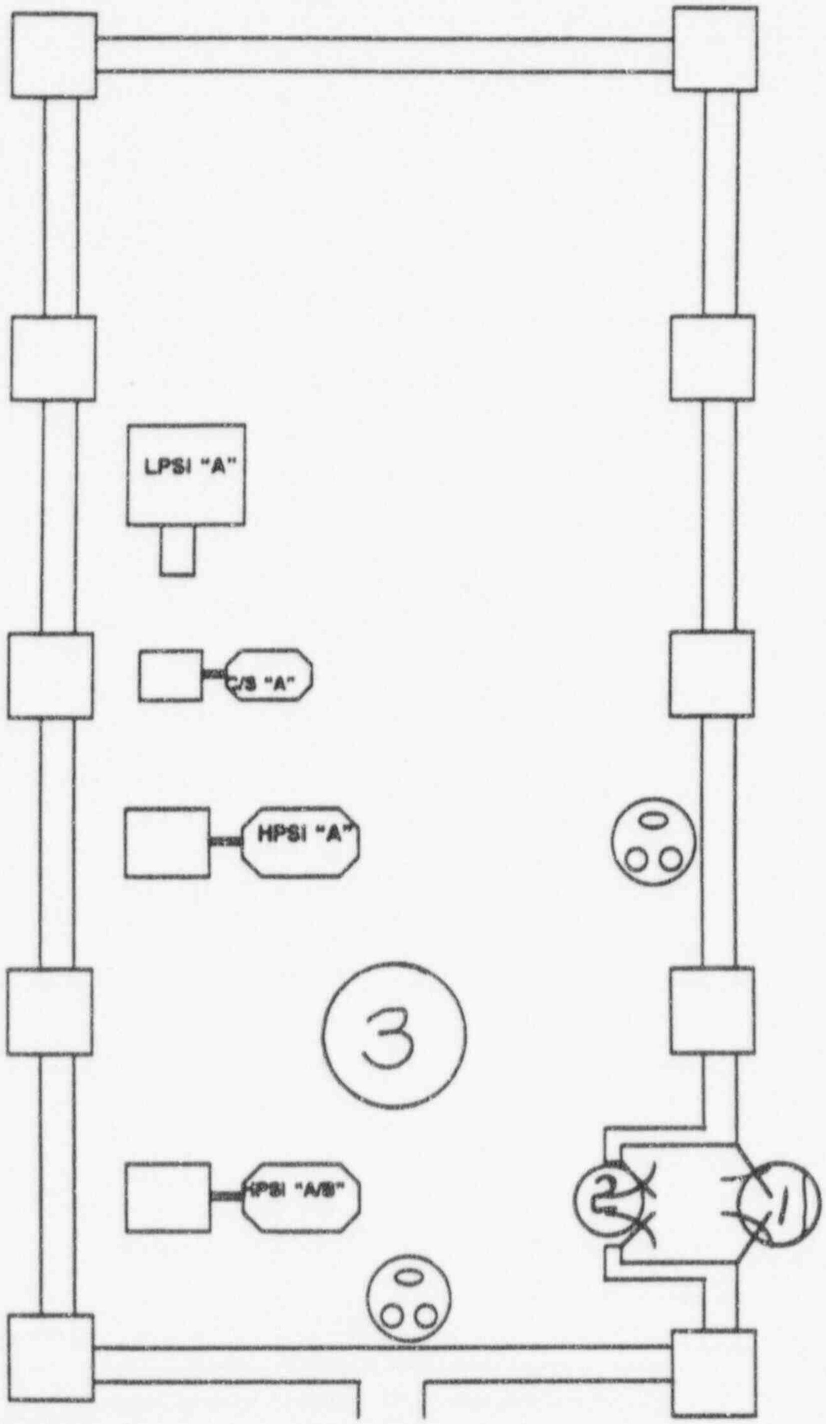
RADIATION / CONTAMINATION SURVEY RECORD

HPS#

DATE__________ TIME________
REACTOR POWER ______%
SUEVEYED BY________________
REVIEWED BY________________

INSTRUMENT USED

TYPE ________ ________ ________ ________
HP NO.________ ________ ________ ________
CAL DUE________ ________ ________ ________
BKG/DC ____/____ ____/____ ____/____ ____/____



SAFEGAURD ROOM "A"

PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
1		
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24		
25		

PT	HP	CCPM/LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS ☐ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X / Y =
X = CONTACT DOSE RATE
Y = DOSE RATE @ 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-67

LOCATION: -35 RAB SHUTDOWN HEAT EXCHANGERS

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) R/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND								(1) Point 1 is contact on outer doors to Shutdown Hx. Rooms.
0830	↓ ↓	↓ ↓	↓ ↓								
0900	↓ ↓	↓ ↓	↓ ↓								
0930	↓ ↓	↓ ↓	↓ ↓								
1000	↓ ↓	↓ ↓	↓ ↓								
1030	↓ ↓	↓ ↓	↓ ↓								
1100	↓ ↓	↓ ↓	↓ ↓								
1130		AT RAS									
1200	800	3000	3,000 R/hr								
1230	↓ ↓	↓ ↓	↓ ↓								
1300	↓ ↓	↓ ↓	↓ ↓								
1330	↓ ↓	↓ ↓	↓ ↓								
1400	↓ ↓	↓ ↓	↓ ↓								
1430	↓ ↓	↓ ↓	↓ ↓								
1500	END										
END											

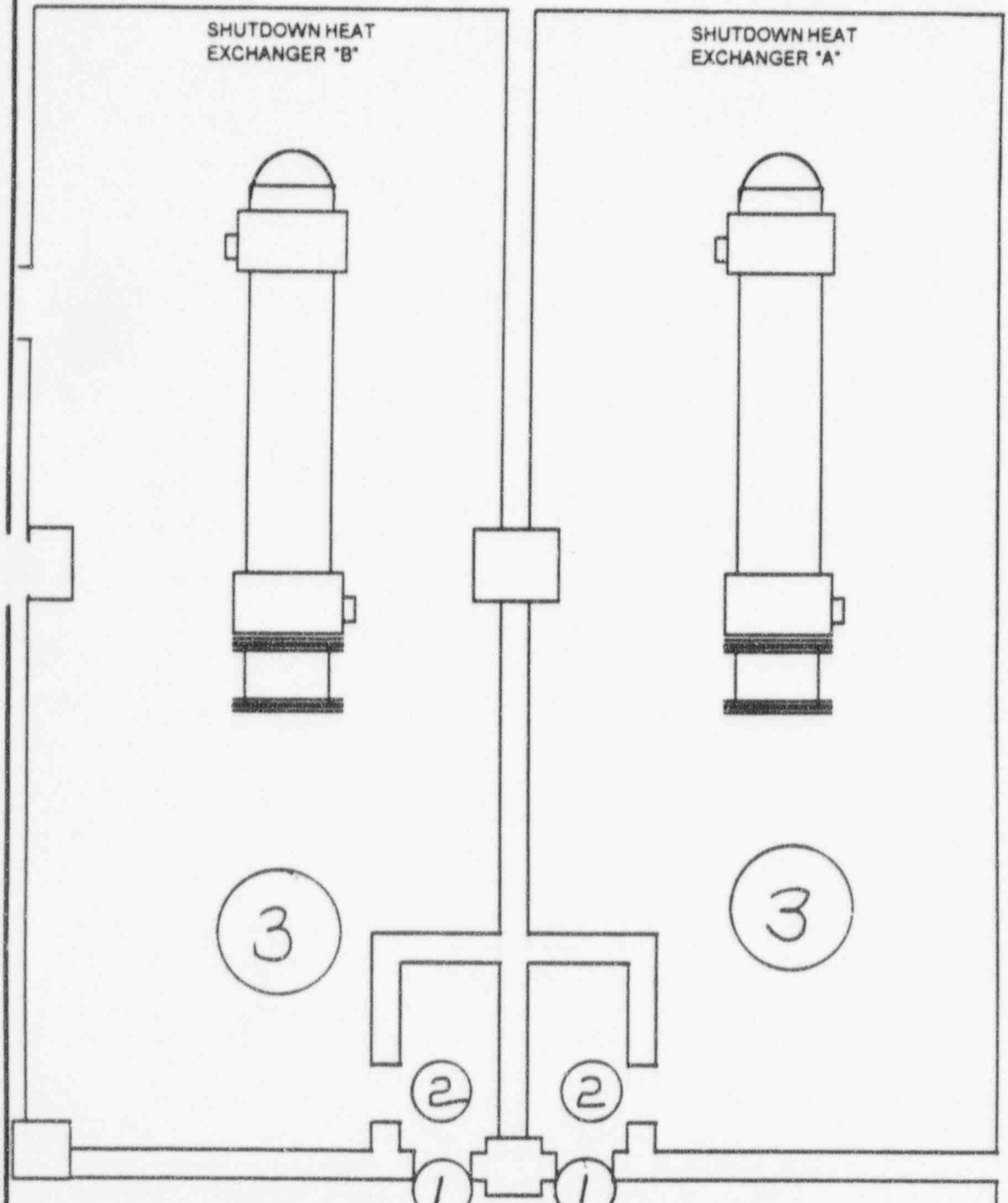
RADIATION / CONTAMINATION SURVEY RECORD

HPS#

DATE__________ TIME______
REACTOR POWER ______%
SUEVEYED BY______________
REVIEWED BY______________

INSTRUMENT USED

TYPE ________ ________ ________ ________
HP NO.________ ________ ________ ________
CAL DUE________ ________ ________ ________
BKG/DC ____/___ ____/___ ____/___ ____/___



RAB -35 SHUTDOWN HEAT EXCHANGERS

PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

PT	HP	CCPM/LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1.DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3."HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X / Y =
X = CONTACT DOSE RATE
Y = DOSE RATE @ 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-68

LOCATION: -35 RAB WASTE TANK AREA

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800											* At time RAS begins. Water flowing into sump in Safeguard "A" Room. Sump is pump to Waste Tank "A" or "B". Note: No Airborne or Contamination levels in rooms.
0830											
0900											
0930											
1000											
1030											
1100											
* 1130	AT RAS										
1200	30	20	300	30	20	250					
1230	↓	↓	↓	↓	↓	↓					
1300	↓	↓	↓	↓	↓	↓					
1330	↓	↓	↓	↓	↓	↓					
1400	↓	↓	↓	↓	↓	↓					
1430	↓	↓	↓	↓	↓	↓					
1500	END OF DRILL										
END											

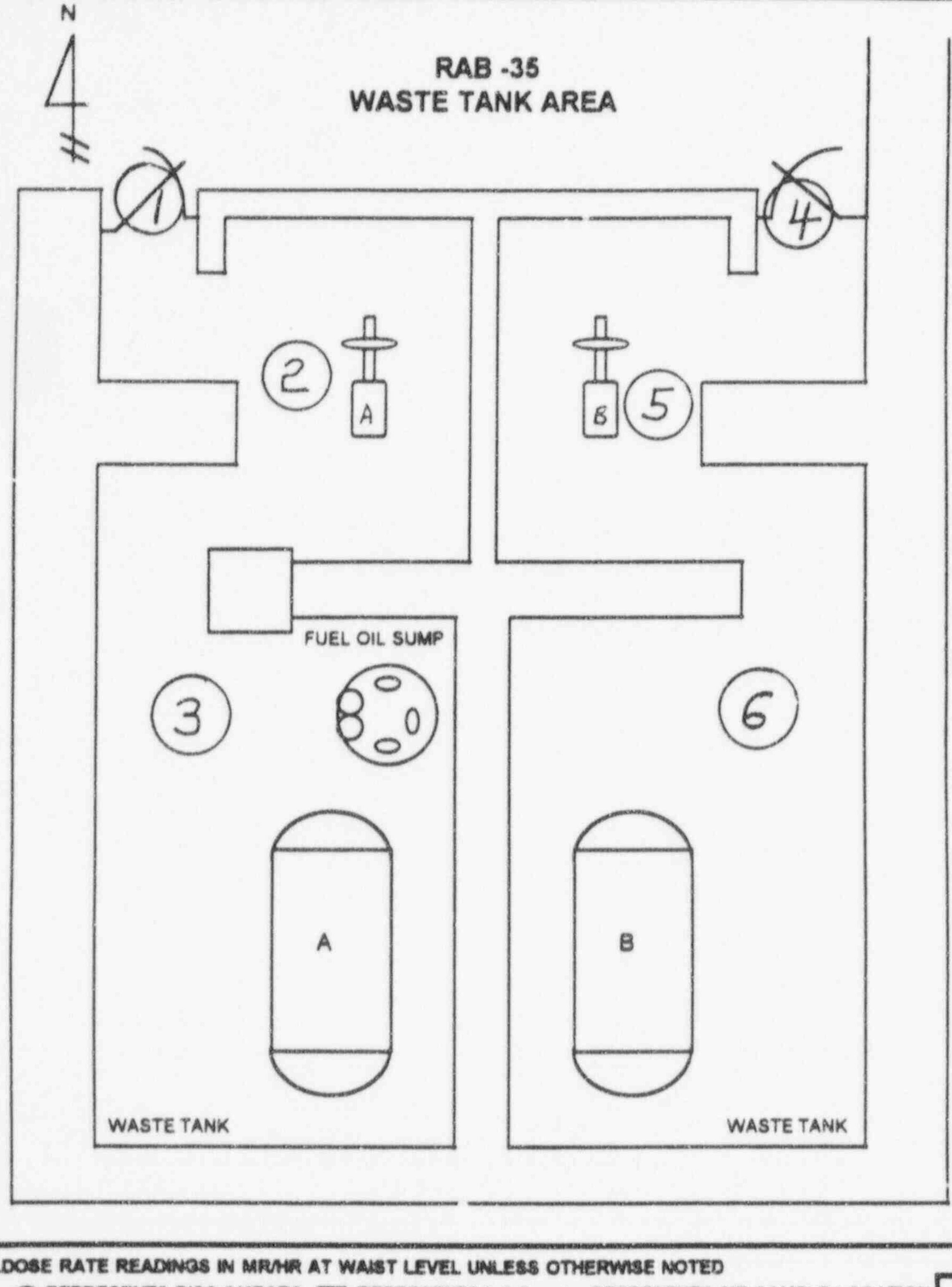
RADIATION / CONTAMINATION SURVEY RECORD

HPS#

DATE__________ TIME________
REACTOR POWER ______ %
SUEVEYED BY______________
REVIEWED BY______________

INSTRUMENT USED

TYPE				
HP NO.				
CAL DUE				
BKG/DC	/	/	/	/



PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

PT	HP	CCPM/LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ○ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X / Y =
X = CONTACT DOSE RATE
Y = DOSE RATE @ 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-72

LOCATION: -35 RCB CENTER WING AREA

TIME	POINT (1) R/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND										(1) Point 1 is general area readings below the SIS Lines.
0830	↓ ↓										
0900	↓ ↓										
0930	↓ ↓										
1000	↓ ↓										
1030	↓ ↓										
1100	AT RAS										
1130	↓ ↓										
1200	3000										
1230	↓ ↓										
1300	↓ ↓										
1330	↓ ↓										
1400	↓ ↓										
1430	↓ ↓										
1500	END OF DRILL										
END											

RADIATION / CONTAMINATION SURVEY RECORD

HPS#

DATE__________ TIME________

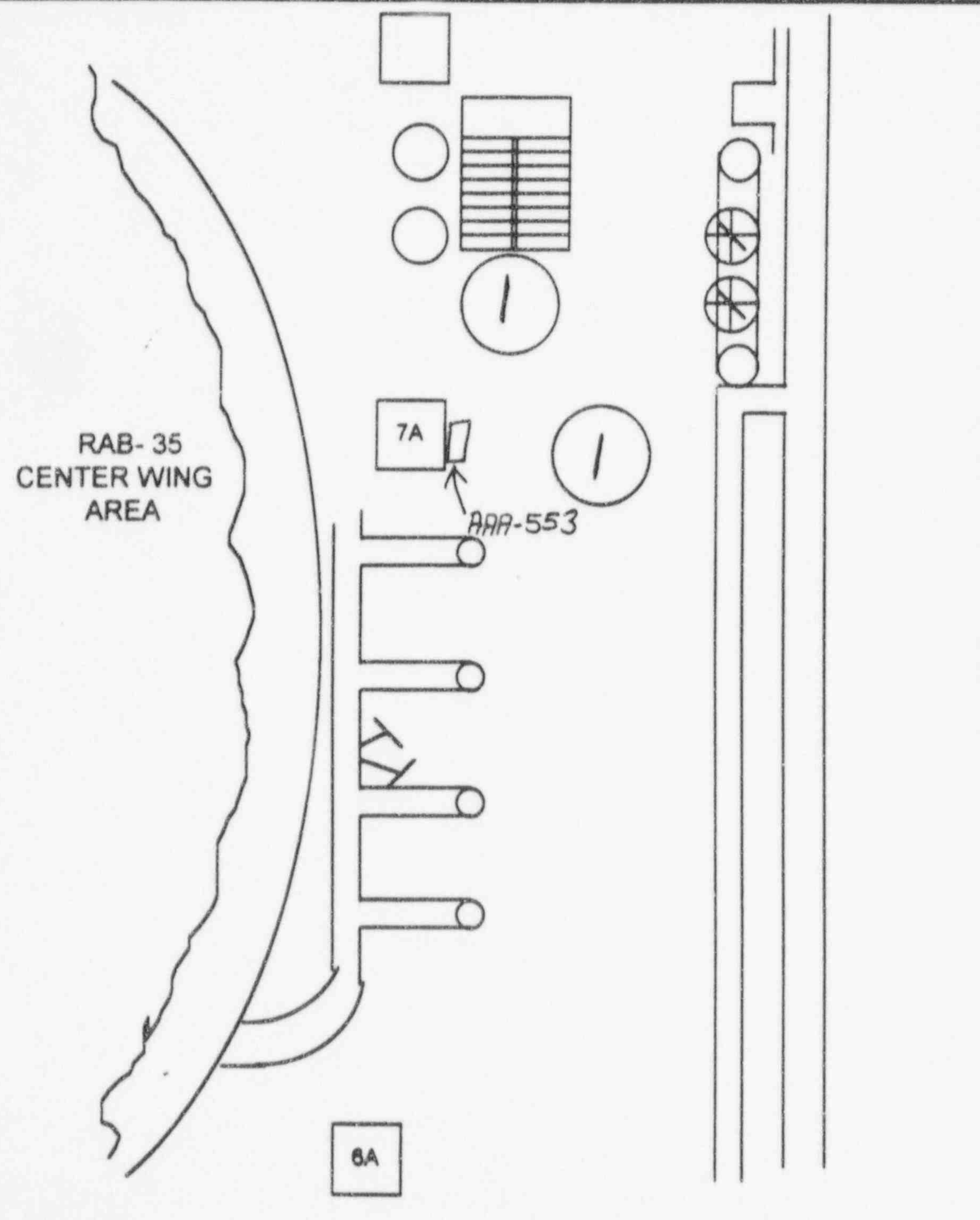
REACTOR POWER ______%

SUEVEYED BY______________

REVIEWED BY______________

INSTRUMENT USED

TYPE				
HP NO.				
CAL DUE				
BKG/DC	/	/	/	/



PT	DPM / 100 Cm²	
	BETA/GAMMA	ALPHA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

PT	HP	CCPM/LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED
2. ◯ REPRESENTS DISC SMEARS □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION
3. "HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X / Y =
X = CONTACT DOSE RATE
Y = DOSE RATE @ 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-74

LOCATION: -35 RAB HALLWAYS

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr	COMMENTS
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						(1) Point 1 is outside of elevators on -35 elevation.
0830	↓	↓	↓	↓	↓						(2) Point 2 is in front of doors to Safeguard Room "A".
0900	↓	↓	↓	↓	↓						(3) Point 3 and Point 5 are general hall dose rates.
0930	↓	↓	↓	↓	↓						
1000	↓	↓	↓	↓	↓						
1030	↓	↓	↓	↓	↓						
1100	↓	↓	↓	↓	↓						
1130	AT RAS										
1200	100	800	100	800	10						
1230	↓	↓	↓	↓	↓						
1300	↓	↓	↓	↓	↓						
1330	↓	↓	↓	↓	↓						
1400	↓	↓	↓	↓	↓						
1430	↓	↓	↓	↓	↓						
1500	TO END OF DRILL RELEASE SECURE										
END	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND						

RADIATION/CONTAMINATION SURVEY RECORD

HPS#

DATE__________________ TIME__________

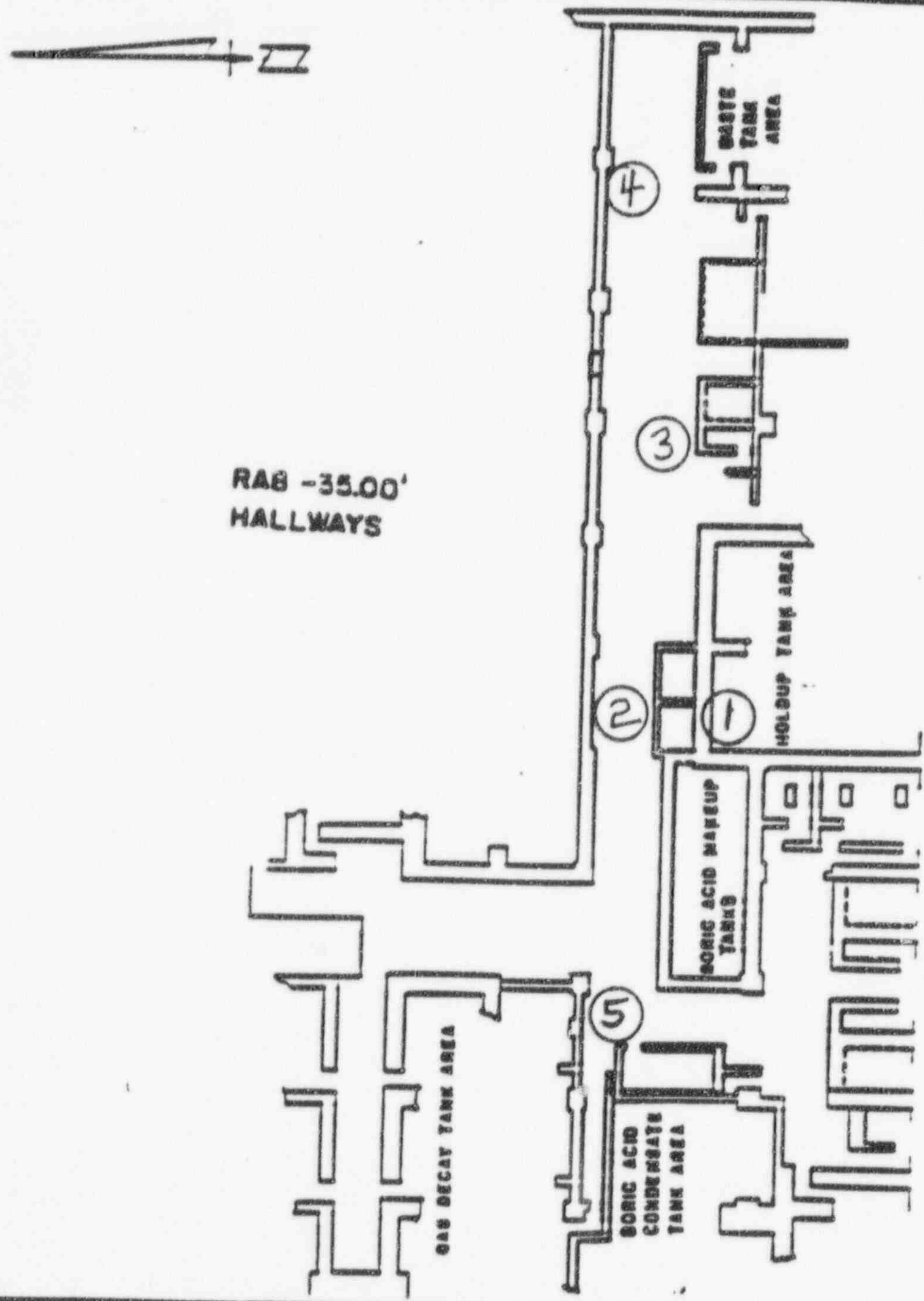
REACTOR POWER________%

SURVEYED BY______________________

REVIEWED BY______________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC				



	DPM/100 CM²	ALPHA
PT	BETA-GAMMA	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
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16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

PT	HP	CCPM / LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1. DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED

○ REPRESENTS DISC SMEARS: □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION

"HP" REPRESENTS HOT PARTICLE: MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

IN PLANT RADIOLOGICAL DATA

HP-SM-108

LOCATION: OUTSIDE

TIME	POINT (1) mR/hr	POINT (2) mR/hr	POINT (3) mR/hr	POINT (4) mR/hr	POINT (5) mR/hr	POINT (6) mR/hr	POINT (7) mR/hr	POINT (8) mR/hr	POINT (9) mR/hr	POINT (10) mR/hr
0800	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND	AS FOUND
0830	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0900	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0930	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1000	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1030	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1100	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1130	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1200	0.4	0.3	10,000	460	6	↓	↓	↓	↓	300
1230	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1300	0.5	0.4	12,500	570	7	↓	↓	↓	↓	400
1330	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1400	0.6	0.5	14,000	710	8	↓	↓	↓	↓	↓
1430	0.7	0.6	15,000	770	9	↓	↓	↓	↓	500
1500	END	↓	↓	↓	↓	↓	↓	↓	↓	↓
END										

COMMENTS

(1) Point 1 is on contact with containment out of sight of plant stack.

(2) Point 3 is contact with plant stack.

(3) Point 4 is 3-ft. from plant stack.

(4) Point 5 is 60 ft. from stack.

(5) Point 2 is GENERAL AREA cooling towers.

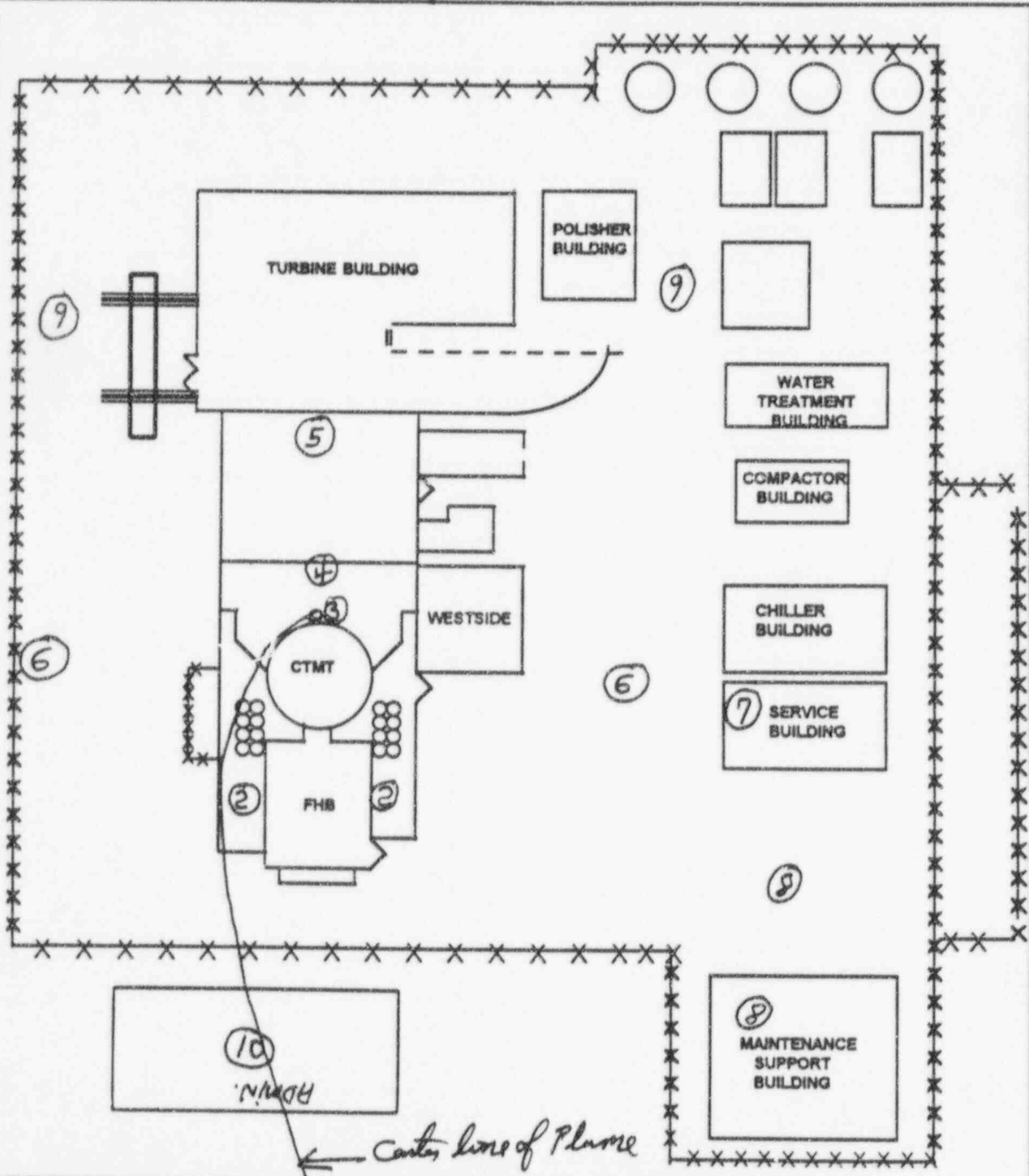
INPLANT-89

RADIATION/CONTAMINATION SURVEY RECORD | *HPS#*

DATE__________________ TIME__________
REACTOR POWER_______%
SURVEYED BY____________________
REVIEWED BY____________________

INSTRUMENTS USED

TYPE				
HP NO.				
CAL DUE				
BKGD/DC	/	/	/	/



PT	DPM/100 CM²	ALPHA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

PT	HP	CCPM / LAS
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		

1.DOSE RATE READINGS IN MR/HR AT WAIST LEVEL UNLESS OTHERWISE NOTED

2.○ REPRESENTS DISC SMEARS: □ REPRESENTS L.A.S.: △ REPRESENTS AIR SAMPLE LOCATION

3."HP" REPRESENTS HOT PARTICLE; MARK IN HP COLUMN DENOTES HOT PARTICLE FOUND WITH ACTIVITY NOTED IN CCPM/LAS COLUMN.

X/Y = X-CONTACT DOSE RATE / Y-DOSE RATE AT 30 CM

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

METHODOLOGY AND ASSUMPTIONS USED FOR CHEMISTRY DATA CALCULATIONS

1. The plant has been operating for the past 45 days at 100% power and is at the beginning of core life.

2. Boron concentration is assumed to be 1204 ppm. Boron concentration will depend on reactor power and operator actions. Actual Boron concentrations will be obtained from the Simulator.

3. Reactor Coolant System (RCS) activity is assumed to remain constant after the shaft seizure until the end of the exercise. After the shaft seizure, Boron, H_2, Dissolved Oxygen, pH and Lithium concentrations will vary per plant conditions and Boron concentrations indicated in the Simulator.

4. $100/\bar{E}$ (E-Bar) = 240.38.

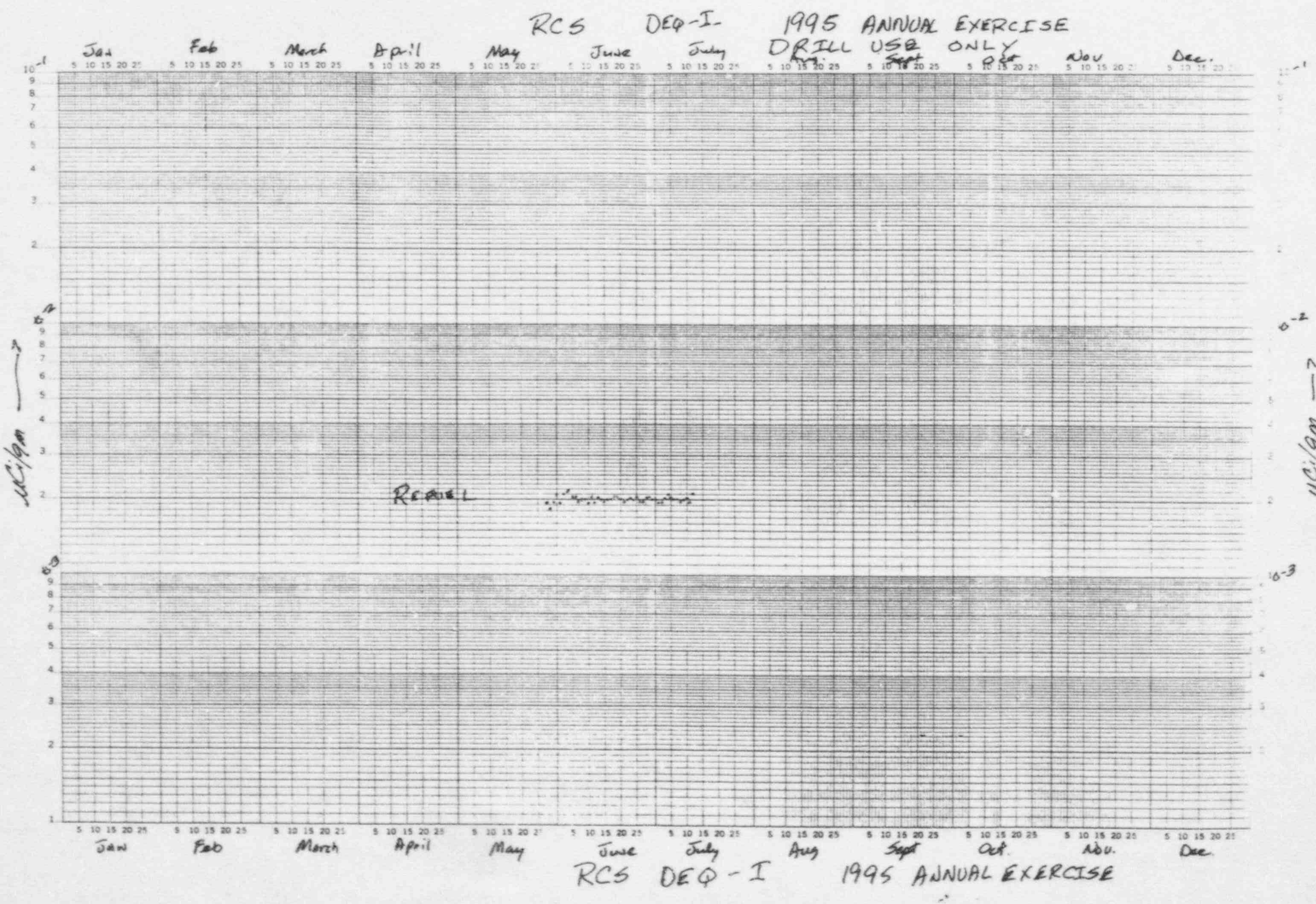
5. The Steam Generators will have no activity throughout the Exercise.

6. At 10:30, RCS leakage into Containment is initiated. For the first 30 minutes, the leakage is assumed to be 500 gpm. With a 4000 gpm dilution factor, the Containment sump readings are assumed to be 1/9 of the RCS concentrations.

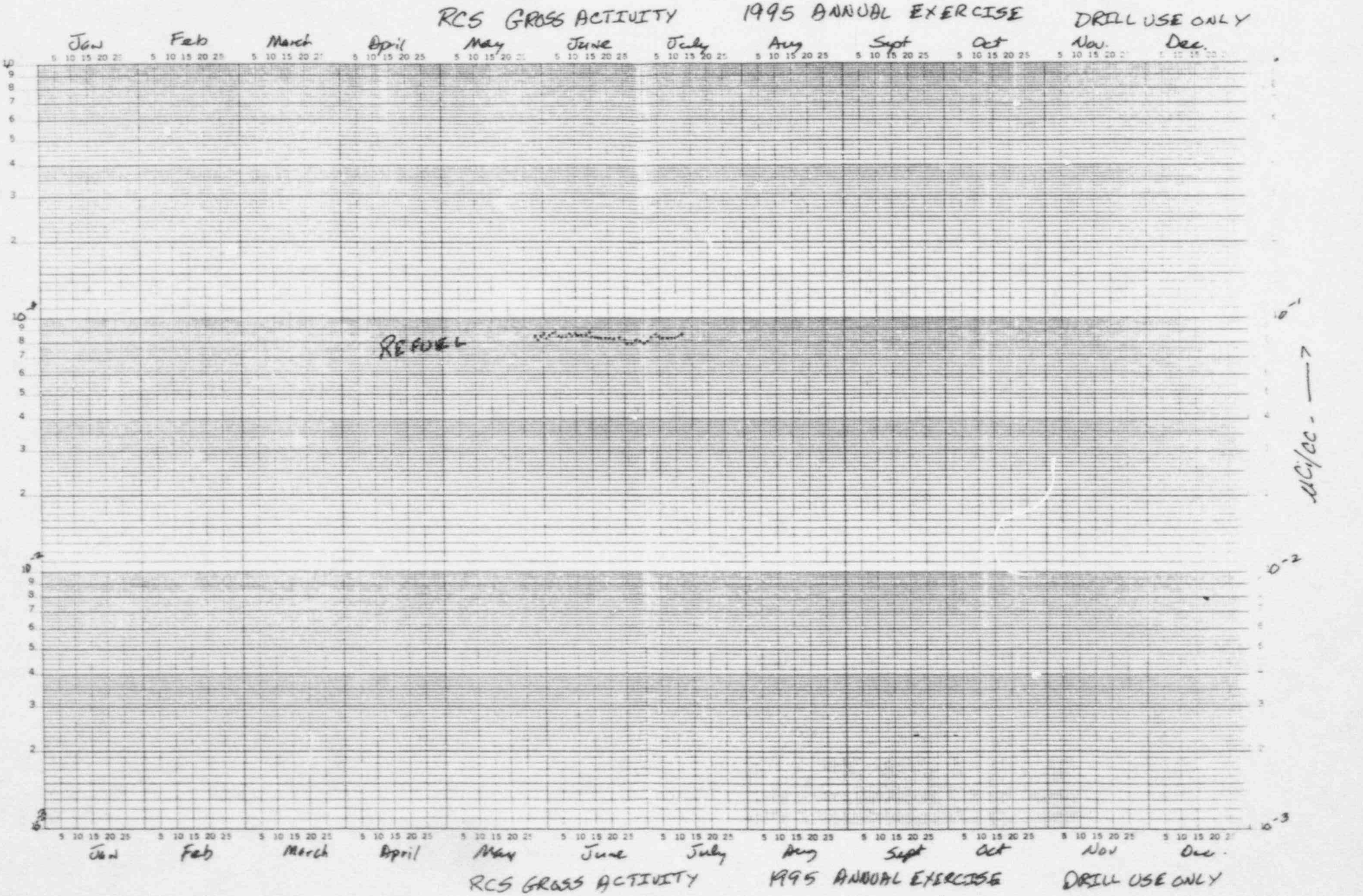
7. After the first 30 minutes, the RCS leakage is assumed to increase to 1000 gpm. With a 4000 gpm dilution factor, the Containment sump readings are assumed to be 1/5 of RCS concentrations.

8. When the RAS occurs, the HPSI leak rate is assumed to be 30 gpm

9. After the shaft seizure, the primary sample panel will read 10 R/hr on contact and 4.5 R/hr at 30 cm from the panel.



RCS DEQ-I- 1995 ANNUAL EXERCISE
DRILL USE ONLY
Jan
Feb
March
April
May
June
July
Aug
Sept
Oct.
Nov.
Dec.
μCi/gm →
REFUEL
RCS DEQ-I 1995 ANNUAL EXERCISE


RCS GROSS ACTIVITY 1995 ANNUAL EXERCISE DRILL USE ONLY
Jan Feb March April May June July Aug Sept Oct Nov. Dec.
REFUEL
10^{-1}
10^{-2}
10^{-3}
$\mu Ci/cc$ →
Jan Feb March April May June July Aug Sept Oct Nov Dec.
RCS GROSS ACTIVITY 1995 ANNUAL EXERCISE DRILL USE ONLY

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

CHEMISTRY CUE CARD

TO: CHEMISTRY PARTICIPANTS — CUE CARD NO. ________

FROM: CHEMISTRY CONTROLLER — TIME: Prior to 09:00

Initial: ________ — SAMPLING TIME: ________

SAMPLE ID: REACTOR COOLANT CHEMISTRY

Gross Activity X Sample Size X 7.8 E-3 = Dose Rate @ 1"

GAMMA SAMPLE DOSE RATE: ____ µCi/gm(cc) X ____ gm(cc) X 7.8 E-3 = ____ (mr/hr)

BETA SAMPLE DOSE RATE: ____ gamma X 1.5 = ____ (mr/hr)

BORON (ppm) 1204 H2 (cc/Kg) 35 Dis O2 (ppm) < 0.01 pH 6.3

Li (ppm) 2.01 Other Conductivity = 19 µmhos/cm^2

SPECIFIC ACTIVITY: µCi/gm(cc)

Gross Activity	8.86E-02	Br-83	----------	Te-129	----------
DEI-131	2.10E-03	Br-84	----------	Te-131	----------
Kr-85m	8.51E-04	I-131	9.27E-04	Te-132	----------
Kr-85	----------	I-132	5.00E-03	Mo-99	----------
Kr-87	----------	I-133	2.28E-03	Tc-99m	----------
Kr-88	----------	I-134	6.60E-03	H-3	4.26E-01
Kr-89	----------	I-135	3.19E-03	Na-24	4.49E-04
Xe-131m	----------	Rb-88	4.99E-03	Co-58	1.17E-03
Xe-133m	----------	Rb-89	2.49E-03	Co-60	----------
Xe-133	2.52E-02	Cs-134	8.71E-04	Ba-137m	----------
Xe-135m	4.95E-04	Cs-136	----------	Ba-140	----------
Xe-135	7.67E-03	Cs-137	4.41E-04	Nb-95	3.73E-04
Xe-137	----------	Cs-138	6.30E-03	Nb-97	3.13E-04
Xe-138	3.44E-03	Cs-139	8.04E-03	W-187	2.40E-03
Cr-51	----------	Mn-56	7.15E-04	Zr-95	7.89E-04
Ar-41	2.19E-03	La-140	----------	Zr-97	4.93E-04
Cl-38	8.94E-04				

COMMENTS:

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

CHEMISTRY CUE CARD

TO: CHEMISTRY PARTICIPANTS | CUE CARD NO. ____________

FROM: CHEMISTRY CONTROLLER | TIME: 09:00 - END

Initial: ____________ | SAMPLING TIME: ____________

SAMPLE ID: REACTOR COOLANT SYSTEM CHEMISTRY - SHAFT SEIZURE

Gross Activity X Sample Size X 7.8 E-3 = Dose Rate @ 1"

GAMMA SAMPLE DOSE RATE: ______ μCi/gm(cc) X ______ gm(cc) X 7.8 E-3 = ______ (mr/hr)

BETA SAMPLE DOSE RATE: ______ gamma X 1.5 = ______ (mr/hr)

BORON (ppm) * ______ H2 (cc/Kg) * ______ Dis O2 (ppm) * ______ pH * ______

Li (ppm) * ______ Other ______

SPECIFIC ACTIVITY: μCi/gm(cc)

Gross Activity	10144	Br-83	420	Te-129	156
DEI-131	500 μci/CC	Br-84	74	Te-131	186
Kr-85m	60.42	I-131	355	Te-132	18.4
Kr-85	101.6	I-132	354.57	Mo-99	468
Kr-87	6.76	I-133	355.5	Tc-99m	347
Kr-88	99.4	I-134	355	H-3	12885
Kr-89	8.72E-1	I-135	355.36	Na-24	31.88
Xe-131m	96.5	Rb-88	354.29	Co-58	83.07
Xe-133m	176.2	Rb-89	176.79	Co-60	10.42
Xe-133	1789	Cs-134	61.84	Ba-137m	156
Xe-135m	35.1	Cs-136	35.6	Ba-140	376
Xe-135	544.57	Cs-137	31.31	Nb-95	26.48
Xe-137	7.43	Cs-138	447.3	Nb-97	22.22
Xe-138	244.24	Cs-139	570.84	W-187	170.4
Cr-51	260	Mn-56	50.76	Zr-95	56.02
Ar-41	155.49	La-140	362	Zr-97	35.0
Cl-38	63.47				

COMMENTS: * = Parameters will vary per Simulator Boron and plant conditions
For drill purposes assume RCS activity remains constant until end of drill.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

CHEMISTRY CUE CARD

TO: CHEMISTRY PARTICIPANTS — CUE CARD NO. ____________

FROM: CHEMISTRY CONTROLLER — TIME: 10:30 - 11:00

Initial: ____________ — SAMPLING TIME: ____________

SAMPLE ID: RCS CONTAINMENT SUMP - FIRST 30 MINUTES (500 GPM LEAK)

Gross Activity X Sample Size X 7.8 E-3 = Dose Rate @ 1"

GAMMA SAMPLE DOSE RATE: ______ µCi/gm(cc) X ______ gm(cc) X 7.8 E-3 = ______ (mr/hr)

BETA SAMPLE DOSE RATE: ______ gamma X 1.5 = ______ (mr/hr)

BORON (ppm) ______ H2 (cc/Kg) ______ Dis O2 (ppm) ______ pH ______

Li (ppm) ______ Other ______

SPECIFIC ACTIVITY: µCi/gm(cc)

Gross Activity	1127	Br-83	46.7	Te-129	17.3
DEI-131	55.6	Br-84	8.22	Te-131	20.67
Kr-85m	6.71	I-131	39.4	Te-132	2.04
Kr-85	11.29	I-132	39.39	Mo-99	52
Kr-87	0.75	I-133	39.5	Tc-99m	38.56
Kr-88	11.04	I-134	39.4	H-3	1431.7
Kr-89	9.68E-2	I-135	39.48	Na-24	3.54
Xe-131m	10.72	Rb-88	39.36	Co-58	9.23
Xe-133m	19.58	Rb-89	19.64	Co-60	1.16
Xe-133	198.8	Cs-134	6.87	Ba-137m	17.33
Xe-135m	3.9	Cs-136	3.95	Ba-140	41.78
Xe-135	60.5	Cs-137	3.48	Nb-95	2.94
Xe-137	0.825	Cs-138	49.7	Nb-97	2.47
Xe-138	27.1	Cs-139	63.42	W-187	18.93
Cr-51	28.88	Mn-56	5.64	Zr-95	6.22
Ar-41	17.28	La-140	40.22	Zr-97	3.89
Cl-38	7.05				

COMMENTS:

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

CHEMISTRY CUE CARD

TO: CHEMISTRY PARTICIPANTS — CUE CARD NO. ____________

FROM: CHEMISTRY CONTROLLER — TIME: 11:00 - END

Initial: ____________ — SAMPLING TIME: ____________

SAMPLE ID: RCS CONTAINMENT SUMP - AFTER 10:30 (1000 GPM LEAK)

Gross Activity X Sample Size X 7.8 E-3 = Dose Rate @ 1"

GAMMA SAMPLE DOSE RATE: ______ μCi/gm(cc) X ______ gm(cc) X 7.8 E-3 = ______ (mr/hr)

BETA SAMPLE DOSE RATE: ______ gamma X 1.5 = ______ (mr/hr)

BORON (ppm) ________ H2 (cc/Kg) ________ Dis O2 (ppm) ________ pH ________

Li (ppm) ________ Other ________

SPECIFIC ACTIVITY: μCi/gm(cc)

Gross Activity	2028.8	Br-83	84	Te-129	31.2
DEI-131	100	Br-84	14.8	Te-131	37.2
Kr-85m	12.08	I-131	71	Te-132	3.68
Kr-85	20.32	I-132	70.91	Mo-99	93.6
Kr-87	1.352	I-133	71.1	Tc-99m	69.4
Kr-88	19.88	I-134	71	H-3	2577
Kr-89	0.1744	I-135	71.07	Na-24	6.38
Xe-131m	19.3	Rb-88	70.86	Co-58	16.614
Xe-133m	35.24	Rb-89	35.36	Co-60	2.08
Xe-133	357.8	Cs-134	12.37	Ba-137m	31.2
Xe-135m	7.02	Cs-136	7.12	Ba-140	75.2
Xe-135	108.91	Cs-137	6.26	Nb-95	5.296
Xe-137	1.486	Cs-138	89.46	Nb-97	4.44
Xe-138	48.85	Cs-139	114.2	W-187	34.08
Cr-51	52	Mn-56	10.15	Zr-95	11.2
Ar-41	31.098	La-140	72.4	Zr-97	7.0
Cl-38	12.69				

COMMENTS:

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

CHEMISTRY CUE CARD

TO: CHEMISTRY PARTICIPANTS — CUE CARD NO. ________

FROM: CHEMISTRY CONTROLLER — TIME: AT RAS

Initial: ________ — SAMPLING TIME: ________

SAMPLE ID: (RCS) HPSI LEAK (30 GPM)

Gross Activity X Sample Size X 7.8 E-3 = Dose Rate @ 1"

GAMMA SAMPLE DOSE RATE: ____ µCi/gm(cc) X ____ gm(cc) X 7.8 E-3 = ____ (mr/hr)

BETA SAMPLE DOSE RATE: ____ gamma X 1.5 = ____ (mr/hr)

BORON (ppm) ________ H2 (cc/Kg) ________ Dis O2 (ppm) ________ pH ________

Li (ppm) ________ Other ________

SPECIFIC ACTIVITY: µCi/gm(cc)

Gross Activity	6086	Br-83	252	Te-129	93.6
DEI-131	300	Br-84	44.4	Te-131	111.6
Kr-85m	36.3	I-131	213	Te-132	11.04
Kr-85	60.96	I-132	212.4	Mo-99	280.8
Kr-87	4.056	I-133	213.1	Tc-99m	208.2
Kr-88	59.6	I-134	213	H-3	7730
Kr-89	5.23	I-135	213.1	Na-24	19.13
Xe-131m	57.9	Rb-88	212	Co-58	49.8
Xe-133m	105.7	Rb-89	106.1	Co-60	6.25
Xe-133	1073	Cs-134	37.1	Ba-137m	93.6
Xe-135m	21.1	Cs-136	21.36	Ba-140	225.6
Xe-135	326.8	Cs-137	18.8	Nb-95	15.89
Xe-137	4.46	Cs-138	268.4	Nb-97	18.3
Xe-138	146.5	Cs-139	342.5	W-187	102.2
Cr-51	156	Mn-56	30.46	Zr-95	33.6
Ar-41	93.2	La-140	217.2	Zr-97	21
Cl-38	38.04				

COMMENTS:

WATERFORD 3 ANNUAL EXERCISE
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METEOROLOGICAL SCENARIO OUTLINE AND DATA

The meteorological scenario selected for the Waterford 3 SES 1995 Annual Exercise has been prepared to meet the overall objectives of the exercise.

The scenario assumes winds from the south west at 10 MPH and very unstable meteorological conditions until 08:00 am. This is followed by a wind shift toward the east and southeast with gusts to 30 MPH for approximately one half-hour, during which a tornado touches down in the Owner Controlled Area damaging the meteorological towers. This choice of weather conditions is consistent with a meteorological stability class of B, changing to category C. These conditions are assumed from 08:00 to 10:45 am.

After 10:45 am, the meteorological conditions stabilize out of the south south west (from 203 degrees) at a speed of 5 MPH and meteorological stability class D. These conditions remain stable throughout the remainder of the exercise. These meteorological conditions were chosen to provide a maximum number of fixed field sample points affected by the radiological release postulated for this scenario.

The meteorological data presented in this section includes:

a. Simulated general weather forecasts from the National Weather Service.

b. Simulated computer printouts from the plant's meteorological system.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED WEATHER FORECASTS
PROVIDED BY THE
NATIONAL WEATHER SERVICE

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 07:45

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the middle to upper 70's; afternoon highs will be in the low to mid 90's. There is a 60% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 10 miles per hour from the west (from 270 degrees). Conditions are moderately unstable (Stability Class B) and wind shifts towards the south are likely.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 08:00

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the upper 70's; afternoon highs will be in the low to mid 90's. There is a 60% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 30 miles per hour from the west south west (from 250 degrees). Conditions are moderately unstable (Stability Class B) and wind shifts towards the north are likely. Tornadoes have been sighted in the area. A tornado warning has been declared for St. Charles Parish, St. John the Baptist Parish and Jefferson Parish until 9:00 this morning.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 08:05

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the upper 70's; afternoon highs will be in the low to mid 90's. There is a 60% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 30 miles per hour from the west south west (from 250 degrees). Conditions are moderately unstable (Stability Class B) and wind shifts towards the north are likely. Tornadoes have been sighted in the area earlier, but there have been no further reports of tornado activity. The Tornado Warning has been down-graded to a Tornado Watch for St. Charles Parish, St. John the Baptist Parish and Jefferson Parish until 9:00 this morning.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 08:30

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the lower 80's; afternoon highs will be in the low to mid 90's. There is a 60% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 10 miles per hour from the south west (from 230 degrees). Conditions are slightly unstable (Stability Class C) and wind shifts towards the south are likely. The Tornado Watch has been terminated for St. Charles and St. John the Baptist Parishes, and remains in effect for Jefferson Parish until 9:00 AM.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 09:00

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the lower 80's; afternoon highs will be in the low to mid 90's. There is a 60% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 10 miles per hour from the south west (from 230 degrees). Conditions are slightly unstable (Stability Class C) and wind shifts towards the south are likely. The Tornado Watch has been terminated for Jefferson Parish.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 09:30

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the lower 80's; afternoon highs will be in the low to mid 90's. There is a 60% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 10 miles per hour from the south west (from 230 degrees). Conditions are slightly unstable (Stability Class C) and wind shifts towards the south are likely.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 09:45

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the middle 80's; afternoon highs will be in the low to mid 90's. There is a 50% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 9 miles per hour from the south west (from 230 degrees). Conditions are slightly unstable (Stability Class C) and wind shifts towards the south are likely.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 10:00

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the middle 80's; afternoon highs will be in the low to mid 90's. There is a 50% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 9 miles per hour from the south south west (from 215 degrees). Conditions are slightly unstable (Stability Class C) and wind shifts towards the south are likely.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 10:30

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the middle 80's; afternoon highs will be in the low to mid 90's. There is a 50% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 9 miles per hour from the south south west (from 215 degrees). Conditions are slightly unstable (Stability Class C) and wind shifts towards the south are likely.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

Simulated Forecast
Provided By The
National Weather Service
For Wednesday, July 12, 1995

TIME: 10:45 - END OF EXERCISE

The extended forecast for the New Orleans area and southeast Louisiana is as follows:

For Wednesday, July 12, 1995, morning lows are in the lower 90's; afternoon highs will be in the low to mid 90's. There is a 40% chance of thunderstorms this morning, decreasing to 40% for the late afternoon and evening. Skies are partly cloudy, with winds up to 5 miles per hour from the south south west (from 203 degrees). Conditions are neutral (Stability Class D) and wind shifts towards the north are likely.

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED COMPUTER PRINTOUT
OF METEOROLOGICAL DATA

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

07:45

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	4.47	M/SEC	4.46	M/SEC
BKUP METR TWR 33 FT WIND SPEED	4.48	M/SEC	4.48	M/SEC
PRI METR TWR 33 FT WIND DIR	270.00	DEGR	272.00	DEGR
BKUP METR TWR 33 FT WIND DIR	270.00	DEGR	269.00	DEGR
PRI METR TWR 199 FT WIND SPEED	4.45	M/SEC	4.47	M/SEC
PRI METR TWR 199 FT WIND DIR	269.00	DEGR	270.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	3.91	DEGR	3.90	DEGR
BKUP METR TWR 33 FT SIGMA THETA	3.82	DEGR	3.80	DEGR
PRI METR TWR 199 FT SIGMA THETA	3.87	DEGR	3.90	DEGR
PRI METR TWR DIF TEMP PRI	-0.89	DEGC	-0.90	DEGC
PRI METR TWR DIF TEMP SEC	-0.90	DEGC	-0.91	DEGC
BKUP METR DIF TEMP	-0.90	DEGC	-0.91	DEGC
PRI METR 33 FT AIR TEMP	23.89	DEGC	23.85	DEGC
PRI METR PRECIPITATION	0.00	INCH	0.00	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

08:00

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	13.50	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	13.45	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	252.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	253.00	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	13.41	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	250.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	3.90	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	4.00	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	4.00	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	-0.90	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	-0.91	DEGC
BKUP METR DIF TEMP	B******	DEGC	-0.91	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	23.85	DEGC
PRI METR PRECIPITATION	B******	INCH	0.00	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

08:15

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

08:30

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

09:00

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
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SIMULATED METEOROLOGICAL OUTPUT

09:15

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
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SIMULATED METEOROLOGICAL OUTPUT

09:30

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

09:30
(IF PRIMARY TOWER RESTORED)

	1 MIN SAMPLE		**15 MIN AVG**	
PRI METR TWR 33 FT WIND SPEED	4.46	M/SEC	4.48	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	231.06	DEGR	233.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	4.48	M/SEC	4.47	M/SEC
PRI METR TWR 199 FT WIND DIR	229.00	DEGR	230.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.32	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.39	DEGR	4.40	DEGR
PRI METR TWR DIF TEMP PRI	-0.83	DEGC	-0.84	DEGC
PRI METR TWR DIF TEMP SEC	-0.85	DEGC	-0.84	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	25.45	DEGC	25.78	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

09:45

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

09:45
(IF PRIMARY TOWER RESTORED)

	1 MIN SAMPLE		**15 MIN AVG**	
PRI METR TWR 33 FT WIND SPEED	4.02	M/SEC	4.01	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	232.00	DEGR	233.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	4.03	M/SEC	4.02	M/SEC
PRI METR TWR 199 FT WIND DIR	231.04	DEGR	230.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.21	DEGR	4.20	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.38	DEGR	4.40	DEGR
PRI METR TWR DIF TEMP PRI	-0.81	DEGC	-0.82	DEGC
PRI METR TWR DIF TEMP SEC	-0.80	DEGC	-0.81	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	25.80	DEGC	25.82	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

10:00

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

10:00
(IF PRIMARY TOWER RESTORED)

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	4.01	M/SEC	4.01	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	215.00	DEGR	217.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	4.02	M/SEC	4.02	M/SEC
PRI METR TWR 199 FT WIND DIR	214.00	DEGR	215.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.22	DEGR	4.20	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.42	DEGR	4.40	DEGR
PRI METR TWR DIF TEMP PRI	-0.81	DEGC	-0.82	DEGC
PRI METR TWR DIF TEMP SEC	-0.80	DEGC	-0.81	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	25.84	DEGC	25.78	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

10:15

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 199 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR DIF TEMP PRI	B******	DEGC	B******	DEGC
PRI METR TWR DIF TEMP SEC	B******	DEGC	B******	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	B******	DEGC	B******	DEGC
PRI METR PRECIPITATION	B******	INCH	B******	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

10:15
(IF PRIMARY TOWER RESTORED)

	1 MIN SAMPLE		**15 MIN AVG**	
PRI METR TWR 33 FT WIND SPEED	4.01	M/SEC	4.01	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	214.00	DEGR	217.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	4.02	M/SEC	4.02	M/SEC
PRI METR TWR 199 FT WIND DIR	214.00	DEGR	215.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.20	DEGR	4.20	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.42	DEGR	4.40	DEGR
PRI METR TWR DIF TEMP PRI	-0.81	DEGC	-0.82	DEGC
PRI METR TWR DIF TEMP SEC	-0.80	DEGC	-0.81	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	26.04	DEGC	25.92	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

10:30

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	4.01	M/SEC	4.01	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	215.00	DEGR	217.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	4.02	M/SEC	4.02	M/SEC
PRI METR TWR 199 FT WIND DIR	214.00	DEGR	216.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.19	DEGR	4.20	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.43	DEGR	4.40	DEGR
PRI METR TWR DIF TEMP PRI	-0.81	DEGC	-0.82	DEGC
PRI METR TWR DIF TEMP SEC	-0.80	DEGC	-0.81	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	26.10	DEGC	26.13	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

10:45

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.30	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	203.00	DEGR	204.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.24	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	202.85	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.31	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.50	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	27.50	DEGC	27.48	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

11:00

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.12	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	204.00	DEGR	204.05	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.24	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	202.00	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.31	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.51	DEGC	-0.50	DEGC
PRI METR TWR DIF TEMP SEC	-0.50	DEGC	-0.49	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	27.78	DEGC	27.90	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

11:15

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.26	M/SEC	2.25	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	201.00	DEGR	202.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.40	M/SEC	2.42	M/SEC
PRI METR TWR 199 FT WIND DIR	202.00	DEGR	201.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.50	DEGC	-0.51	DEGC
PRI METR TWR DIF TEMP SEC	-0.48	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	27.90	DEGC	27.92	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

11:30

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.23	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	203.00	DEGR	204.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.22	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	202.00	DEGR	202.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.29	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.48	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	28.03	DEGC	27.98	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

11:45

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.36	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	204.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.22	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	203.00	DEGR	202.50	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.51	DEGC	-0.50	DEGC
PRI METR TWR DIF TEMP SEC	-0.52	DEGC	-0.51	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	28.06	DEGC	28.10	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

12:00

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	204.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.24	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	203.00	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.50	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	28.52	DEGC	28.36	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

12:15

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	201.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.22	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	204.00	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.31	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.33	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.50	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	28.95	DEGC	28.90	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

12:30

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.23	M/SEC	2.15	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	204.01	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.23	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	204.00	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.51	DEGC	-0.50	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	28.95	DEGC	28.98	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

12:45

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.25	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	202.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.34	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	203.00	DEGR	204.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.28	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.48	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.50	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	29.04	DEGC	29.12	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

13:00

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.05	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	202.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.23	M/SEC	2.24	M/SEC
PRI METR TWR 199 FT WIND DIR	203.00	DEGR	204.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.29	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.27	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.50	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	29.45	DEGC	29.36	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

13:15

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	203.56	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.23	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	203.00	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.49	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.50	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	30.42	DEGC	30.48	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

13:30

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.30	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	203.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.24	M/SEC	2.24	M/SEC
PRI METR TWR 199 FT WIND DIR	203.04	DEGR	202.95	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.52	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	30.85	DEGC	30.98	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

13:45

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.23	M/SEC	2.12	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	202.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.23	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	203.40	DEGR	203.00	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.49	DEGC	-0.50	DEGC
PRI METR TWR DIF TEMP SEC	-0.49	DEGC	-0.51	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	31.62	DEGC	31.88	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

SIMULATED METEOROLOGICAL OUTPUT

14:00 - END

	1 MIN SAMPLE		15 MIN AVG	
PRI METR TWR 33 FT WIND SPEED	2.24	M/SEC	2.24	M/SEC
BKUP METR TWR 33 FT WIND SPEED	B******	M/SEC	B******	M/SEC
PRI METR TWR 33 FT WIND DIR	204.00	DEGR	203.00	DEGR
BKUP METR TWR 33 FT WIND DIR	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT WIND SPEED	2.22	M/SEC	2.23	M/SEC
PRI METR TWR 199 FT WIND DIR	203.21	DEGR	203.01	DEGR
PRI METR TWR 33 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
BKUP METR TWR 33 FT SIGMA THETA	B******	DEGR	B******	DEGR
PRI METR TWR 199 FT SIGMA THETA	4.30	DEGR	4.30	DEGR
PRI METR TWR DIF TEMP PRI	-0.50	DEGC	-0.49	DEGC
PRI METR TWR DIF TEMP SEC	-0.51	DEGC	-0.50	DEGC
BKUP METR DIF TEMP	B******	DEGC	B******	DEGC
PRI METR 33 FT AIR TEMP	33.84	DEGC	34.01	DEGC
PRI METR PRECIPITATION	0.45	INCH	0.45	INCH

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

BASIS FOR THE RADIOLOGICAL PORTION OF THE EXERCISE

The following assumptions have been made for the calculation of the onsite and offsite data for the 1995 Waterford 3 Annual Exercise. The data has been prepared to meet the overall objectives of the exercise.

The wind direction is initially assumed to be blowing from approximately 250 degrees at 10 miles per hour.

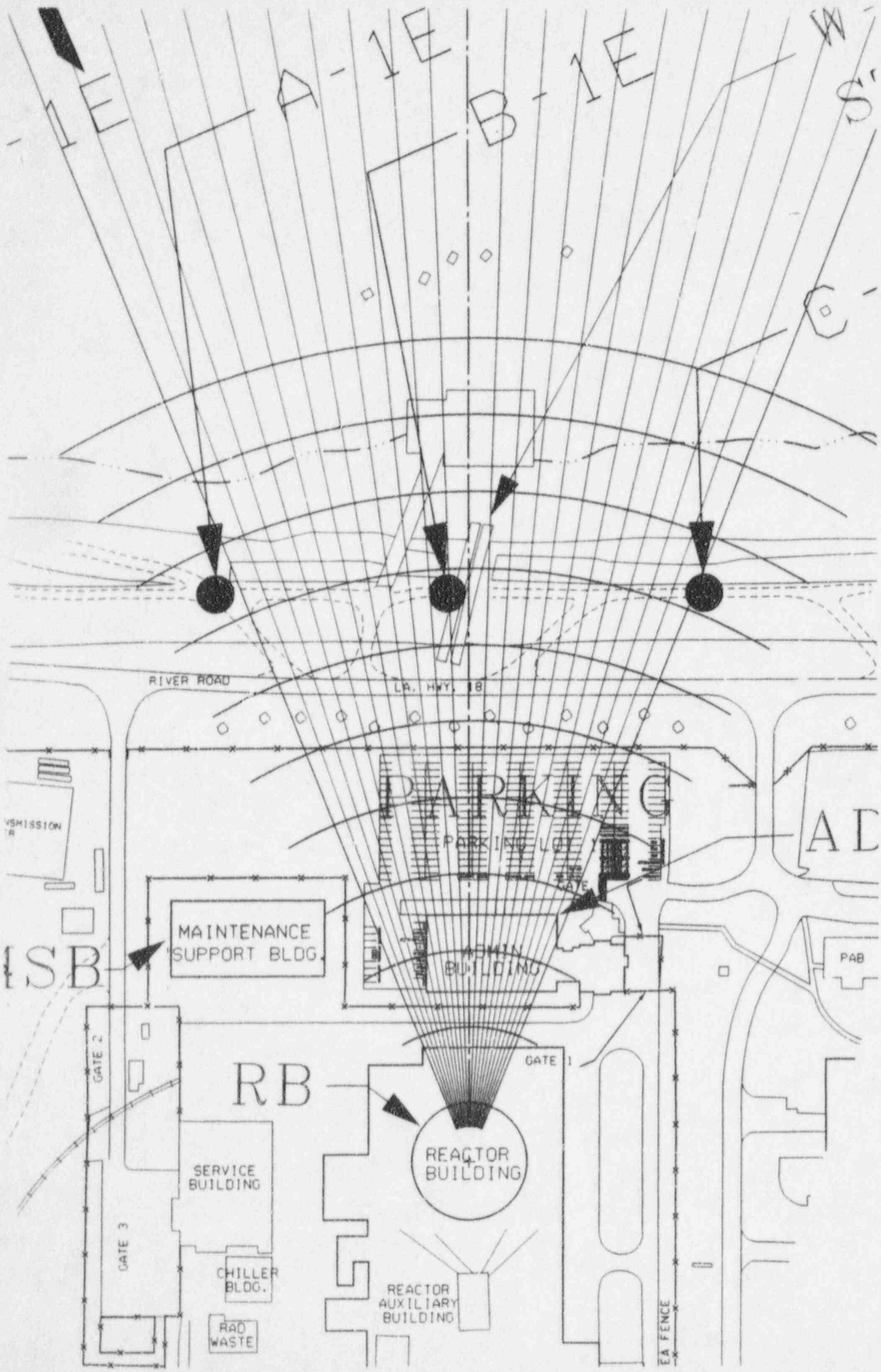
At 08:00 am, the weather is very unstable with wind speed of 30 MPH at the site boundary. A tornado touches down in the owner controlled area and damages both meteorological towers. After approximately 30 minutes, the wind speed decreases to 10 MPH. There is no release of radioactive materials during this period of weather disturbance.

At approximately 8:30 am, conditions change from atmospheric stability class B to stability class C and then settle at stability class D at 10:45. The weather conditions will remain at stability class D with winds out of the south southwest (from 203 degrees) at a speed of 5 miles per hour for the remainder of the exercise.

After the shaft seizure event, the RCS activity is assumed to remain constant for the remainder of the exercise. At 10:30 am, the primary leakage into containment, during the first 30 minutes, is assumed to be at a rate of 500 gallons per minute (gpm), then changes to 1000 gpm for the remainder of the exercise. We assumed a TEDE dose factor of 9.68E+05 and a CDE dose factor of 2.96E+08 with an iodine to noble gas ratio equal to 3.89E-02 (these values are obtained from EP-002-050 for a LOCA with cladding barrier failure and with containment spray available). When the radioactive release begins, the plant stack radiation monitor goes into high alarm. At 12:00, a release rate of 58.80 Ci/sec was calculated and the dose assessment, based on plant stack monitor readings or field sample data, will result in a 3,357 mrem/hr TEDE dose rate and 39932 mrem/hr CDE dose rate at the EAB. Also, the CDE thyroid dose rate was calculated to be 601 mrem/hr at 10 miles. This exceeds the values for a General Emergency emergency classification (EP-001-001, Initiating Condition A/GE/I).

The onsite data is provided at distances from 100 to 1000 feet from the source of the release with an elevated beta/gamma dose rate due to shine from the plume passing overhead. The data was developed with the use of a computerized model and is consistent with other data in the scenario for various sample point locations within the 10-mile emergency planning zone.

The plume will pass over the Administration Building, but does not touch down until it reaches the river levee (800 feet), dose rates will be elevated in the Administration Building and are provided in the package.



1E
A-1E
B-1E
W
S
C
RIVER ROAD
LA. HWY. 18
PARKING
PARKING LOT 1
AD
MAINTENANCE SUPPORT BLDG.
MSB
ADMIN BUILDING
PAB
GATE 1
GATE 2
GATE 3
RB
REACTOR BUILDING
SERVICE BUILDING
CHILLER BLDG.
RAD WASTE
REACTOR AUXILIARY BUILDING
EA FENCE

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

ONSITE RADIOLOGICAL DATA

10:45 TO 15:00

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Drill Constants

Air Sample Duration = 8 Minutes
Air Sample Flow Rate - 2 CFM
Air Sample Volume - 16 ft^3
Instrument D/C - 17
Dose Equivalent Iodine Factor - 1.4
CDE Thyriod Conversion Factor - 0.0207

Meteorology Chosen

Wind Stability Category D.
Windspeed - 2.235 meters per second
Wind From - 203
Distances in - Feet

Dose Factors

Release Rate in Curies per Second - .0000001
TEDE Dose Factor - 968000
CDE Dose Factor - 2.96E+08
Iodine to Noble Gas Ratio - .0389

Site of Release and Duration

Site of Release - PLANT STACK
Time at Which Release Occurs - 12:00 PM

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
10:45 - 12:00 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
Center	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
10:45 - 12:00 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
Center	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
10:45 - 12:00 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet.									
	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	100	100	100
90 -	100	100	100	100	100	100	100	100	100	100
80 -	100	100	100	100	100	100	100	100	100	100
70 -	100	100	100	100	100	100	100	100	100	100
60 -	100	100	100	100	100	100	100	100	100	100
50 -	100	100	100	100	100	100	100	100	100	100
40 -	100	100	100	100	100	100	100	100	100	100
30 -	100	100	100	100	100	100	100	100	100	100
20 -	100	100	100	100	100	100	100	100	100	100
10 -	100	100	100	100	100	100	100	100	100	100
Center -	100	100	100	100	100	100	100	100	100	100
10 -	100	100	100	100	100	100	100	100	100	100
20 -	100	100	100	100	100	100	100	100	100	100
30 -	100	100	100	100	100	100	100	100	100	100
40 -	100	100	100	100	100	100	100	100	100	100
50 -	100	100	100	100	100	100	100	100	100	100
60 -	100	100	100	100	100	100	100	100	100	100
70 -	100	100	100	100	100	100	100	100	100	100
80 -	100	100	100	100	100	100	100	100	100	100
90 -	100	100	100	100	100	100	100	100	100	100
100 -	100	100	100	100	100	100	100	100	100	100

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:00 NOON

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	14	587	3129	7800	17133	19358	15233	12288
90	0	3	63	1958	5632	15600	19036	19358	15233	12288
80	0	14	104	3525	11264	17334	19036	19358	15233	12288
70	1	23	348	7050	12515	17334	19036	19358	15233	12288
60	5	78	626	7833	12515	17334	19036	19358	15233	12288
50	9	140	1251	7833	12515	17334	19036	19358	15233	12288
40	30	279	1391	7833	12515	17334	19036	19358	15233	12288
30	54	310	1391	7833	12515	17334	19036	19358	15233	12288
20	108	310	1391	7833	12515	17334	19036	19358	15233	12288
10	120	310	1391	7833	12515	17334	19036	19358	15233	12288
Center	120	310	1391	7833	12515	17334	19036	19358	15233	12288
10	120	310	1391	7833	12515	17334	19036	19358	15233	12288
20	108	310	1391	7833	12515	17334	19036	19358	15233	12288
30	54	310	1391	7833	12515	17334	19036	19358	15233	12288
40	30	279	1391	7833	12515	17334	19036	19358	15233	12288
50	9	140	1251	7833	12515	17334	19036	19358	15233	12288
60	5	78	626	7833	12515	17334	19036	19358	15233	12288
70	1	23	348	7050	12515	17334	19036	19358	15233	12288
80	0	14	104	3525	11264	17334	19036	19358	15233	12288
90	0	3	63	1958	5632	15600	19036	19358	15233	12288
100	0	0	14	587	3129	7800	19036	19358	15233	12288

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:00 NOON

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	14	587	3129	7800	17133	25165	19803	15974
90	0	3	63	1958	5632	15600	19036	25165	19803	15974
80	0	14	104	3525	11264	17334	19036	25165	19803	15974
70	1	23	348	7050	12515	17334	19036	25165	19803	15974
60	5	78	626	7833	12515	17334	19036	25165	19803	15974
50	9	140	1251	7833	12515	17334	19036	25165	19803	15974
40	30	279	1391	7833	12515	17334	19036	25165	19803	15974
30	54	310	1391	7833	12515	17334	19036	25165	19803	15974
20	108	310	1391	7833	12515	17334	19036	25165	19803	15974
10	120	310	1391	7833	12515	17334	19036	25165	19803	15974
Center	120	310	1391	7833	12515	17334	19036	25165	19803	15974
10	120	310	1391	7833	12515	17334	19036	25165	19803	15974
20	108	310	1391	7833	12515	17334	19036	25165	19803	15974
30	54	310	1391	7833	12515	17334	19036	25165	19803	15974
40	30	279	1391	7833	12515	17334	19036	25165	19803	15974
50	9	140	1251	7833	12515	17334	19036	25165	19803	15974
60	5	78	626	7833	12515	17334	19036	25165	19803	15974
70	1	23	348	7050	12515	17334	19036	25165	19803	15974
80	0	14	104	3525	11264	17334	19036	25165	19803	15974
90	0	3	63	1958	5632	15600	19036	25165	19803	15974
100	0	0	14	587	3129	7800	19036	25165	19803	15974

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
12:00 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet.									
	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:15 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	13	567	3017	7522	16522	18668	14690	11850
90 -	0	3	60	1888	5431	15045	18358	18668	14690	11850
80 -	0	13	101	3399	10862	16716	18358	18668	14690	11850
70 -	1	22	335	6798	12069	16716	18358	18668	14690	11850
60 -	5	75	603	7554	12069	16716	18358	18668	14690	11850
50 -	9	135	1207	7554	12069	16716	18358	18668	14690	11850
40 -	29	269	1341	7554	12069	16716	18358	18668	14690	11850
30 -	52	299	1341	7554	12069	16716	18358	18668	14690	11850
20 -	104	299	1341	7554	12069	16716	18358	18668	14690	11850
10 -	116	299	1341	7554	12069	16716	18358	18668	14690	11850
Center -	116	299	1341	7554	12069	16716	18358	18668	14690	11850
10 -	116	299	1341	7554	12069	16716	18358	18668	14690	11850
20 -	104	299	1341	7554	12069	16716	18358	18668	14690	11850
30 -	52	299	1341	7554	12069	16716	18358	18668	14690	11850
40 -	29	269	1341	7554	12069	16716	18358	18668	14690	11850
50 -	9	135	1207	7554	12069	16716	18358	18668	14690	11850
60 -	5	75	603	7554	12069	16716	18358	18668	14690	11850
70 -	1	22	335	6798	12069	16716	18358	18668	14690	11850
80 -	0	13	101	3399	10862	16716	18358	18668	14690	11850
90 -	0	3	60	1888	5431	15045	18358	18668	14690	11850
100 -	0	0	13	567	3017	7522	18358	18668	14690	11850

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:15 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	13	567	3017	7522	16522	24268	19097	15405
90	0	3	60	1888	5431	15045	18358	24268	19097	15405
80	0	13	101	3399	10862	16716	18358	24268	19097	15405
70	1	22	335	6798	12069	16716	18358	24268	19097	15405
60	5	75	603	7554	12069	16716	18358	24268	19097	15405
50	9	135	1207	7554	12069	16716	18358	24268	19097	15405
40	29	269	1341	7554	12069	16716	18358	24268	19097	15405
30	52	299	1341	7554	12069	16716	18358	24268	19097	15405
20	104	299	1341	7554	12069	16716	18358	24268	19097	15405
10	116	299	1341	7554	12069	16716	18358	24268	19097	15405
Center	116	299	1341	7554	12069	16716	18358	24268	19097	15405
10	116	299	1341	7554	12069	16716	18358	24268	19097	15405
20	104	299	1341	7554	12069	16716	18358	24268	19097	15405
30	52	299	1341	7554	12069	16716	18358	24268	19097	15405
40	29	269	1341	7554	12069	16716	18358	24268	19097	15405
50	9	135	1207	7554	12069	16716	18358	24268	19097	15405
60	5	75	603	7554	12069	16716	18358	24268	19097	15405
70	1	22	335	6798	12069	16716	18358	24268	19097	15405
80	0	13	101	3399	10862	16716	18358	24268	19097	15405
90	0	3	60	1888	5431	15045	18358	24268	19097	15405
100	0	0	13	567	3017	7522	18358	24268	19097	15405

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
12:15 PM

Results Reported in Gross CPM for Iodine Samples

Distance	Downwind Distances in Feet.									
Off Center	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:30 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	13	561	2990	7454	16373	18500	14558	11743
90	0	3	60	1871	5382	14909	18192	18500	14558	11743
80	0	13	100	3369	10764	16565	18192	18500	14558	11743
70	1	22	332	6737	11960	16565	1819[illegible]	18500	14558	11743
60	5	74	598	7486	11960	16565	18192	18500	14558	11743
50	9	133	1196	7486	11960	16565	18192	18500	14558	11743
40	29	267	1329	7486	11960	16565	18192	18500	14558	11743
30	52	297	1329	7486	11960	16565	18192	18500	14558	11743
20	104	297	1329	7486	11960	16565	18192	18500	14558	11743
10	115	297	1329	7486	11960	16565	18192	18500	14558	11743
Center	115	297	1329	7486	11960	16565	18192	18500	14558	11743
10	115	297	1329	7486	11960	16565	18192	18500	14558	11743
20	104	297	1329	7486	11960	16565	18192	18500	14558	11743
30	52	297	1329	7486	11960	16565	18192	18500	14558	11743
40	29	267	1329	7486	11960	16565	18192	18500	14558	11743
50	9	133	1196	7486	11960	16565	18192	18500	14558	11743
60	5	74	598	7486	11960	16565	18192	18500	14558	11743
70	1	22	332	6737	11960	16565	18192	18500	14558	11743
80	0	13	100	3369	10764	16565	18192	18500	14558	11743
90	0	3	60	1871	5382	14909	18192	18500	14558	11743
100	0	0	13	561	2990	7454	18192	18500	14558	11743

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACXGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:30 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	13	561	2990	7454	16373	24050	18925	15266
90	0	3	60	1871	5382	14909	18192	24050	18925	15266
80	0	13	100	3369	10764	16565	18192	24050	18925	15266
70	1	22	332	6737	11960	16565	18192	24050	18925	15266
60	5	74	598	7486	11960	16565	18192	24050	18925	15266
50	9	133	1196	7486	11960	16565	18192	24050	18925	15266
40	29	267	1329	7486	11960	16565	18192	24050	18925	15266
30	52	297	1329	7486	11960	16565	18192	24050	18925	15266
20	104	297	1329	7486	11960	16565	18192	24050	18925	15266
10	115	297	1329	7486	11960	16565	18192	24050	18925	15266
Center	115	297	1329	7486	11960	16565	18192	24050	18925	15266
10	115	297	1329	7486	11960	16565	18192	24050	18925	15266
20	104	297	1329	7486	11960	16565	18192	24050	18925	15266
30	52	297	1329	7486	11960	16565	18192	24050	18925	15266
40	29	267	1329	7486	11960	16565	18192	24050	18925	15266
50	9	133	1196	7486	11960	16565	18192	24050	18925	15266
60	5	74	598	7486	11960	16565	18192	24050	18925	15266
70	1	22	332	6737	11960	16565	18192	24050	18925	15266
80	0	13	100	3369	10764	16565	18192	24050	18925	15266
90	0	3	60	1871	5382	14909	18192	24050	18925	15266
100	0	0	13	561	2990	7454	18192	24050	18925	15266

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
12:30 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet. 100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:45

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	15	642	3421	8528	18730	21163	16654	13434
90	0	3	68	2141	6157	17055	20812	21163	16654	13434
80	0	15	114	3854	12314	18951	20812	21163	16654	13434
70	1	25	380	7707	13682	18951	20812	21163	16654	13434
60	6	85	684	8563	13682	18951	20812	21163	16654	13434
50	10	153	1368	8563	13682	18951	20812	21163	16654	13434
40	33	305	1520	8563	13682	18951	20812	21163	16654	13434
30	59	339	1520	8563	13682	18951	20812	21163	16654	13434
20	118	339	1520	8563	13682	18951	20812	21163	16654	13434
10	132	339	1520	8563	13682	18951	20812	21163	16654	13434
Center	132	339	1520	8563	13682	18951	20812	21163	16654	13434
10	132	339	1520	8563	13682	18951	20812	21163	16654	13434
20	118	339	1520	8563	13682	18951	20812	21163	16654	13434
30	59	339	1520	8563	13682	18951	20812	21163	16654	13434
40	33	305	1520	8563	13682	18951	20812	21163	16654	13434
50	10	153	1368	8563	13682	18951	20812	21163	16654	13434
60	6	85	684	8563	13682	18951	20812	21163	16654	13434
70	1	25	380	7707	13682	18951	20812	21163	16654	13434
80	0	15	114	3854	12314	18951	20812	21163	16654	13434
90	0	3	68	2141	6157	17055	20812	21163	16654	13434
100	0	0	15	642	3421	8528	20812	21163	16654	13434

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
12:45

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	15	642	3421	8528	18730	27512	21650	17464
90	0	3	68	2141	6157	17055	20812	27512	21650	17464
80	0	15	114	3854	12314	18951	20812	27512	21650	17464
70	1	25	380	7707	13682	18951	20812	27512	21650	17464
60	6	85	684	8563	13682	18951	20812	27512	21650	17464
50	10	153	1368	8563	13682	18951	20812	27512	21650	17464
40	33	305	1520	8563	13682	18951	20812	27512	21650	17464
30	59	339	1520	8563	13682	18951	20812	27512	21650	17464
20	118	339	1520	8563	13682	18951	20812	27512	21650	17464
10	132	339	1520	8563	13682	18951	20812	27512	21650	17464
Center	132	339	1520	8563	13682	18951	20812	27512	21650	17464
10	132	339	1520	8563	13682	18951	20812	27512	21650	17464
20	118	339	1520	8563	13682	18951	20812	27512	21650	17464
30	59	339	1520	8563	13682	18951	20812	27512	21650	17464
40	33	305	1520	8563	13682	18951	20812	27512	21650	17464
50	10	153	1368	8563	13682	18951	20812	27512	21650	17464
60	6	85	684	8563	13682	18951	20812	27512	21650	17464
70	1	25	380	7707	13682	18951	20812	27512	21650	17464
80	0	15	114	3854	12314	18951	20812	27512	21650	17464
90	0	3	68	2141	6157	17055	20812	27512	21650	17464
100	0	0	15	642	3421	8528	20812	27512	21650	17464

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
12:45 PM

Results Reported in Gross CPM for Iodine Samples

Distance	Downwind Distances in Feet.									
Off Center	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
13:00 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	17	727	3873	9656	21208	23962	18856	15210
90 -	0	4	77	2424	6971	19311	23564	23962	18856	15210
80 -	0	17	129	4363	13943	21457	23564	23962	18856	15210
70 -	1	29	430	8726	15492	21457	23564	23962	18856	15210
60 -	7	96	775	9696	15492	21457	23564	23962	18856	15210
50 -	11	173	1549	9696	15492	21457	23564	23962	18856	15210
40 -	37	346	1721	9696	15492	21457	23564	23962	18856	15210
30 -	67	384	1721	9696	15492	21457	23564	23962	18856	15210
20 -	134	384	1721	9696	15492	21457	23564	23962	18856	15210
10 -	149	384	1721	9696	15492	21457	23564	23962	18856	15210
Center -	149	384	1721	9696	15492	21457	23564	23962	18856	15210
10 -	149	384	1721	9696	15492	21457	23564	23962	18856	15210
20 -	134	384	1721	9696	15492	21457	23564	23962	18856	15210
30 -	67	384	1721	9696	15492	21457	23564	23962	18856	15210
40 -	37	346	1721	9696	15492	21457	23564	23962	18856	15210
50 -	11	173	1549	9696	15492	21457	23564	23962	18856	15210
60 -	7	96	775	9696	15492	21457	23564	23962	18856	15210
70 -	1	29	430	8726	15492	21457	23564	23962	18856	15210
80 -	0	17	129	4363	13943	21457	23564	23962	18856	15210
90 -	0	4	77	2424	6971	19311	23564	23962	18856	15210
100 -	0	0	17	727	3873	9656	23564	23962	18856	15210

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
13:00 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	17	727	3873	9656	21208	31151	24513	19773
90 -	0	4	77	2424	6971	19311	23564	31151	24513	19773
80 -	0	17	129	4363	13943	21457	23564	31151	24513	19773
70 -	1	29	430	8726	15492	21457	23564	31151	24513	19773
60 -	7	96	775	9696	15492	21457	23564	31151	24513	19773
50 -	11	173	1549	9696	15492	21457	23564	31151	24513	19773
40 -	37	346	1721	9696	15492	21457	23564	31151	24513	19773
30 -	67	384	1721	9696	15492	21457	23564	31151	24513	19773
20 -	134	384	1721	9696	15492	21457	23564	31151	24513	19773
10 -	149	384	1721	9696	15492	21457	23564	31151	24513	19773
Center -	149	384	1721	9696	15492	21457	23564	31151	24513	19773
10 -	149	384	1721	9696	15492	21457	23564	31151	24513	19773
20 -	134	384	1721	9696	15492	21457	23564	31151	24513	19773
30 -	67	384	1721	9696	15492	21457	23564	31151	24513	19773
40 -	37	346	1721	9696	15492	21457	23564	31151	24513	19773
50 -	11	173	1549	9696	15492	21457	23564	31151	24513	19773
60 -	7	96	775	9696	15492	21457	23564	31151	24513	19773
70 -	1	29	430	8726	15492	21457	23564	31151	24513	19773
80 -	0	17	129	4363	13943	21457	23564	31151	24513	19773
90 -	0	4	77	2424	6971	19311	23564	31151	24513	19773
100 -	0	0	17	727	3873	9656	23564	31151	24513	19773

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
13:00 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet.									
	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
13:15 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	18	753	4012	10001	21967	24820	19532	15755
90	0	4	80	2511	7221	20003	24408	24820	19532	15755
80	0	18	134	4519	14442	22225	24408	24820	19532	15755
70	2	30	446	9039	16047	22225	24408	24820	19532	15755
60	7	99	802	10043	16047	22225	24408	24820	19532	15755
50	12	179	1605	10043	16047	22225	24408	24820	19532	15755
40	39	358	1783	10043	16047	22225	24408	24820	19532	15755
30	69	398	1783	10043	16047	22225	24408	24820	19532	15755
20	139	398	1783	10043	16047	22225	24408	24820	19532	15755
10	154	398	1783	10043	16047	22225	24408	24820	19532	15755
Center	154	398	1783	10043	16047	22225	24408	24820	19532	15755
10	154	398	1783	10043	16047	22225	24408	24820	19532	15755
20	139	398	1783	10043	16047	22225	24408	24820	19532	15755
30	69	398	1783	10043	16047	22225	24408	24820	19532	15755
40	39	358	1783	10043	16047	22225	24408	24820	19532	15755
50	12	179	1605	10043	16047	22225	24408	24820	19532	15755
60	7	99	802	10043	16047	22225	24408	24820	19532	15755
70	2	30	446	9039	16047	22225	24408	24820	19532	15755
80	0	18	134	4519	14442	22225	24408	24820	19532	15755
90	0	4	80	2511	7221	20003	24408	24820	19532	15755
100	0	0	18	753	4012	10001	24408	24820	19532	15755

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
13:15 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	18	753	4012	10001	21967	32266	25391	20482
90 -	0	4	80	2511	7221	20003	24408	32266	25391	20482
80 -	0	18	134	4519	14442	22225	24408	32266	25391	20482
70 -	2	30	446	9039	16047	22225	24408	32266	25391	20482
60 -	7	99	802	10043	16047	22225	24408	32266	25391	20482
50 -	12	179	1605	10043	16047	22225	24408	32266	25391	20482
40 -	39	358	1783	10043	16047	22225	24408	32266	25391	20482
30 -	69	398	1783	10043	16047	22225	24408	32266	25391	20482
20 -	139	398	1783	10043	16047	22225	24408	32266	25391	20482
10 -	154	398	1783	10043	16047	22225	24408	32266	25391	20482
Center -	154	398	1783	10043	16047	22225	24408	32266	25391	20482
10 -	154	398	1783	10043	16047	22225	24408	32266	25391	20482
20 -	139	398	1783	10043	16047	22225	24408	32266	25391	20482
30 -	69	398	1783	10043	16047	22225	24408	32266	25391	20482
40 -	39	358	1783	10043	16047	22225	24408	32266	25391	20482
50 -	12	179	1605	10043	16047	22225	24408	32266	25391	20482
60 -	7	99	802	10043	16047	22225	24408	32266	25391	20482
70 -	2	30	446	9039	16047	22225	24408	32266	25391	20482
80 -	0	18	134	4519	14442	22225	24408	32266	25391	20482
90 -	0	4	80	2511	7221	20003	24408	32266	25391	20482
100 -	0	0	18	753	4012	10001	24408	32266	25391	20482

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
13:15 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet.									
	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE

JULY 12 1995

Onsite and Nearsite Radiological Data
13:30 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	18	779	4150	10347	22727	25678	20207	16300
90 -	0	4	83	2598	7471	20694	25252	25678	20207	16300
80 -	0	19	138	4676	14941	22994	25252	25678	20207	16300
70 -	2	31	461	9351	16601	22994	25252	25678	20207	16300
60 -	7	103	830	10390	16601	22994	25252	25678	20207	16300
50 -	12	185	1660	10390	16601	22994	25252	25678	20207	16300
40 -	40	370	1845	10390	16601	22994	25252	25678	20207	16300
30 -	72	412	1845	10390	16601	22994	25252	25678	20207	16300
20 -	144	412	1845	10390	16601	22994	25252	25678	20207	16300
10 -	160	412	1845	10390	16601	22994	25252	25678	20207	16300
Center -	160	412	1845	10390	16601	22994	25252	25678	20207	16300
10 -	160	412	1845	10390	16601	22994	25252	25678	20207	16300
20 -	144	412	1845	10390	16601	22994	25252	25678	20207	16300
30 -	72	412	1845	10390	16601	22994	25252	25678	20207	16300
40 -	40	370	1845	10390	16601	22994	25252	25678	20207	16300
50 -	12	185	1660	10390	16601	22994	25252	25678	20207	16300
60 -	7	103	830	10390	16601	22994	25252	25678	20207	16300
70 -	2	31	461	9351	16601	22994	25252	25678	20207	16300
80 -	0	19	138	4676	14941	22994	25252	25678	20207	16300
90 -	0	4	83	2598	7471	20694	25252	25678	20207	16300
100 -	0	0	18	779	4150	10347	25252	25678	20207	16300

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE

JULY 12 1995

Onsite and Nearsite Radiological Data
13:30 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	18	779	4150	10347	22727	33382	26269	21190
90	0	4	83	2598	7471	20694	25252	33382	26269	21190
80	0	19	138	4676	14941	22994	25252	33382	26269	21190
70	2	31	461	9351	16601	22994	25252	33382	26269	21190
60	7	103	830	10390	16601	22994	25252	33382	26269	21190
50	12	185	1660	10390	16601	22994	25252	33382	26269	21190
40	40	370	1845	10390	16601	22994	25252	33382	26269	21190
30	72	412	1845	10390	16601	22994	25252	33382	26269	21190
20	144	412	1845	10390	16601	22994	25252	33382	26269	21190
10	160	412	1845	10390	16601	22994	25252	33382	26269	21190
Center	160	412	1845	10390	16601	22994	25252	33382	26269	21190
10	160	412	1845	10390	16601	22994	25252	33382	26269	21190
20	144	412	1845	10390	16601	22994	25252	33382	26269	21190
30	72	412	1845	10390	16601	22994	25252	33382	26269	21[illegible]
40	40	370	1845	10390	16601	22994	25252	33382	26269	21190
50	12	185	1660	10390	16601	22994	25252	33382	26269	21190
60	7	103	830	10390	16601	22994	25252	33382	26269	21190
70	2	31	461	9351	16601	22994	25252	33382	26269	21190
80	0	19	138	4676	14941	22994	25252	33382	26269	21190
90	0	4	83	2598	7471	20694	25252	33382	26269	21190
100	0	0	18	779	4150	10347	25252	33382	26269	21190

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
13:30 PM

Results Reported in Gross CPM for Iodine Samples

Distance	Downwind Distances in Feet.									
Off Center	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
13:45 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	20	842	4486	11185	24567	27758	21843	17620
90	0	4	90	2808	8076	22370	27297	27758	21843	17620
80	0	20	150	5054	16151	24856	27297	27758	21843	17620
70	2	33	498	10109	17946	24856	27297	27758	21843	17620
60	8	111	897	11232	17946	24856	27297	27758	21843	17620
50	13	200	1795	11232	17946	24856	27297	27758	21843	17620
40	43	400	1994	11232	17946	24856	27297	27758	21843	17620
30	78	445	1994	11232	17946	24856	27297	27758	21843	17620
20	155	445	1994	11232	17946	24856	27297	27758	21843	17620
10	173	445	1994	11232	17946	24856	27297	27758	21843	17620
Center	173	445	1994	11232	17946	24856	27297	27758	21843	17620
10	173	445	1994	11232	17946	24856	27297	27758	21843	17620
20	155	445	1994	11232	17946	24856	27297	27758	21843	17620
30	78	445	1994	11232	17946	24856	27297	27758	21843	17620
40	43	400	1994	11232	17946	24856	27297	27758	21843	17620
50	13	200	1795	11232	17946	24856	27297	27758	21843	17620
60	8	111	897	11232	[illegible]	24856	27297	27758	21843	17620
70	2	33	498	10109	17946	24856	27297	27758	21843	17620
80	0	20	150	5054	16151	24856	27297	27758	21843	17620
90	0	4	90	2808	8076	22370	27297	27758	21843	17620
100	0	0	20	842	4486	11185	27297	27758	21843	17620

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
13:45 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	20	842	4486	11185	24567	36085	28396	22906
90	0	4	90	2808	8076	22370	27297	36085	28396	22906
80	0	20	150	5054	16151	24856	27297	36085	28396	22906
70	2	33	498	10109	17946	24856	27297	36085	28396	22906
60	8	111	897	11232	17946	24856	27297	36085	28396	22906
50	13	200	1795	11232	17946	24856	27297	36085	28396	22906
40	43	400	1994	11232	17946	24856	27297	36085	28396	22906
30	78	445	1994	11232	17946	24856	27297	36085	28396	22906
20	155	445	1994	11232	17946	24856	27297	36085	28396	22906
10	173	445	1994	11232	17946	24856	27297	36085	28396	22906
Center	173	445	1994	11232	17946	24856	27297	36085	28396	22906
10	173	445	1994	11232	17946	24856	27297	36085	28396	22906
20	155	445	1994	11232	17946	24856	27297	36085	28396	22906
30	78	445	1994	11232	17946	24856	27297	36085	28396	22906
40	43	400	1994	11232	17946	24856	27297	36085	28396	22906
50	13	200	1795	11232	17946	24856	27297	36085	28396	22906
60	8	111	897	11232	17946	24856	27297	36085	28396	22906
70	2	33	498	10109	17946	24856	27297	36085	28396	22906
80	0	20	150	5054	16151	24856	27297	36085	28396	22906
90	0	4	90	2808	8076	22370	27297	36085	28396	22906
100	0	0	20	842	4486	11185	27297	36085	28396	22906

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
13:45 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet. 100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
14:00 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	21	905	4823	12023	26407	29837	23479	18940
90 -	0	5	96	3018	8681	24046	29341	29837	23479	18940
80 -	0	22	161	5433	17361	26718	29341	29837	23479	18940
70 -	2	36	536	10866	19290	26718	29341	[illegible]9837	23479	18940
60 -	8	120	964	12073	19290	26718	29341	29837	23479	18940
50 -	14	215	1929	12073	19290	26718	29341	[illegible]837	23479	18940
40 -	46	430	2143	12073	19290	26718	29341	29837	23479	18940
30 -	83	478	2143	12073	19290	26718	29341	29837	23479	18940
20 -	167	478	2143	12073	19290	26718	29341	29837	23479	1[illegible]940
10 -	186	478	2143	12073	19290	26718	29341	29837	23479	18[illegible]40
Center -	186	478	2143	12073	19290	26718	29341	29837	23479	18940
10 -	186	478	2143	12073	19290	26718	29341	29837	23479	1894[illegible]
20 -	167	478	2143	12073	19290	26718	29341	29837	23479	189[illegible]
30 -	83	478	2143	12073	19290	26718	29341	29837	23479	18940
40 -	46	430	2143	12073	19290	26718	29341	29837	23479	18940
50 -	14	215	1929	120[illegible]	[illegible]9290	26718	29341	29837	23479	18940
60 -	8	120	964	12073	19290	26718	29341	29837	23479	18940
70 -	2	36	536	10866	19290	26718	29341	29837	23479	18940
80 -	0	22	161	5433	17361	26718	29341	29837	23479	18940
90 -	0	5	96	3018	8681	24046	29341	29837	23479	18940
100 -	0	0	21	905	4823	12023	29341	29837	23479	18940

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
14:00 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	21	905	4823	12023	26407	38788	30523	24622
90 -	0	5	96	3018	8681	24046	29341	38788	30523	24622
80 -	0	22	161	5433	17361	26718	29341	38788	30523	24622
70 -	2	36	536	10866	19290	26718	29341	38788	30523	24622
60 -	8	120	964	12073	19290	26718	29341	38788	30523	24622
50 -	14	215	1929	12073	19290	26718	29341	38788	30523	24622
40 -	46	430	2143	12073	19290	26718	29341	38788	30523	24622
30 -	83	478	2143	12073	19290	26718	29341	38788	30523	24622
20 -	167	478	2143	12073	19290	26718	29341	38788	30523	24622
10 -	186	478	2143	12073	19290	26718	29341	38788	30523	24622
Center -	186	478	2143	12073	19290	26718	29341	38788	30523	24622
10 -	186	478	2143	12073	19290	26718	29341	38788	30523	24622
20 -	167	478	2143	12073	19290	26718	29341	38788	30523	24622
30 -	83	478	2143	12073	19290	26718	29341	38788	30523	24622
40 -	46	430	2143	12073	19290	26718	29341	38788	30523	24622
50 -	14	215	1929	12073	19290	26718	29341	38788	30523	24622
60 -	8	120	964	12073	19290	26718	29341	38788	30523	24622
70 -	2	36	536	10866	19290	26718	29341	38788	30523	24622
80 -	0	22	161	5433	17361	26718	29341	38788	30523	24622
90 -	0	5	96	3018	8681	24046	29341	38788	30523	24622
100 -	0	0	21	905	4823	12023	29341	38788	30523	24622

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
14:00 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet. 100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
14:15

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	22	924	4921	12269	26948	30448	23960	19327
90 -	0	5	98	3080	8858	24538	29942	30448	23960	19327
80 -	0	22	164	5544	17716	27264	29942	30448	23960	19327
70 -	2	37	547	11088	19685	27264	29942	30448	23960	19327
60 -	9	122	984	12320	19685	27264	29942	30448	23960	19327
50 -	14	220	1968	12320	19685	27264	29942	30448	23960	19327
40 -	47	439	2187	12320	19685	27264	29942	30448	23960	19327
30 -	85	488	2187	12320	19685	27264	29942	30448	23960	19327
20 -	170	488	2187	12320	19685	27264	29942	30448	23960	19327
10 -	189	488	2187	12320	19685	27264	29942	30448	23960	19327
Center -	189	488	2187	12320	19685	27264	29942	30448	23960	19327
10 -	189	488	2187	12320	19685	27264	29942	30448	23960	19327
20 -	170	488	2187	12320	19685	27264	29942	30448	23960	19327
30 -	85	488	2187	12320	19685	27264	29942	30448	23960	19327
40 -	47	439	2187	12320	19685	27264	29942	30448	23960	19327
50 -	14	220	1968	12320	19685	27264	29942	30448	23960	19327
60 -	9	122	984	12320	19685	27264	29942	30448	23960	19327
70 -	2	37	547	11088	19685	27264	29942	30448	23960	19327
80 -	0	22	164	5544	17716	27264	29942	30448	23960	19327
90 -	0	5	98	3080	8858	24538	29942	30448	23960	19327
100 -	0	0	22	924	4921	12269	29942	30448	23960	19327

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
14:15

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	22	924	4921	12269	26948	39582	31148	25125
90 -	0	5	98	3080	8858	24538	29942	39582	31148	25125
80 -	0	22	164	5544	17716	27264	29942	39582	31148	25125
70 -	2	37	547	11088	19685	27264	29942	39582	31148	25125
60 -	9	122	984	12320	19685	27264	29942	39582	31148	25125
50 -	14	220	1968	12320	19685	27264	29942	39582	31148	25125
40 -	47	439	2187	12320	19685	27264	29942	39582	31148	25125
30 -	85	488	2187	12320	19685	27264	29942	39582	31148	25125
20 -	170	488	2187	12320	19685	27264	29942	39582	31148	25125
10 -	189	488	2187	12320	19685	27264	29942	39582	31148	25125
Center -	189	488	2187	12320	19685	27264	29942	39582	31148	25125
10 -	189	488	2187	12320	19685	27264	29942	39582	31148	25125
20 -	170	488	2187	12320	19685	27264	29942	39582	31148	25125
30 -	85	488	2187	12320	19685	27264	29942	39582	31148	25125
40 -	47	439	2187	12320	19685	27264	29942	39582	31148	25125
50 -	14	220	1968	12320	19685	27264	29942	39582	31148	25125
60 -	9	122	984	12320	19685	27264	29942	39582	31148	25125
70 -	2	37	547	11088	19685	27264	29942	39582	31148	25125
80 -	0	22	164	5544	17716	27264	29942	39582	31148	25125
90 -	0	5	98	3080	8858	24538	29942	39582	31148	25125
100 -	0	0	22	924	4921	12269	29942	39582	31148	25125

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
14:15 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet. 100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
14:30 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	23	983	5233	13047	28656	32379	25479	20553
90	0	5	105	3275	9420	26094	31841	32379	25479	20553
80	0	23	174	5896	18840	28993	31841	32379	25479	20553
70	2	39	581	11791	20933	28993	31841	32379	25479	20553
60	9	130	1047	13102	20933	28993	31841	32379	25479	20553
50	15	234	2093	13102	20933	28993	31841	32379	25479	20553
40	50	467	2326	13102	20933	28993	31841	32379	25479	20553
30	91	519	2326	13102	20933	28993	31841	32379	25479	20553
20	181	519	2326	13102	20933	28993	31841	32379	25479	20553
10	201	519	2326	13102	20933	28993	31841	32379	25479	20553
Center	201	519	2326	13102	20933	28993	31841	32379	25479	20553
10	201	519	2326	13102	20933	28993	31841	32379	25479	20553
20	181	519	2326	13102	20933	28993	31841	32379	25479	20553
30	91	519	2326	13102	20933	28993	31841	32379	25479	20553
40	50	467	2326	13102	20933	28993	31841	32379	25479	20553
50	15	234	2093	13102	20933	28993	31841	32379	25479	20553
60	9	130	1047	13102	20933	28993	31841	32379	25479	20553
70	2	39	581	11791	20933	28993	31841	32379	25479	20553
80	0	23	174	5896	18840	28993	31841	32379	25479	20553
90	0	5	105	3275	9420	26094	31841	32379	25479	20553
100	0	0	23	983	5233	13047	31841	32379	25479	20553

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR 1995

JULY 12 1995

Onsite and Nearsite Radiological Data
14:30 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	23	983	5233	13047	28656	42092	33123	26719
90	0	5	105	3275	9420	26094	31841	42092	33123	26719
80	0	23	174	5896	18840	28993	31841	42092	33123	26719
70	2	39	581	11791	20933	28993	31841	42092	33123	26719
60	9	130	1047	13102	20933	28993	31841	42092	33123	26719
50	15	234	2093	13102	20933	28993	31841	42092	33123	26719
40	50	467	2326	13102	20933	28993	31841	42092	33123	26719
30	91	519	2326	13102	20933	28993	31841	42092	33123	26719
20	181	519	2326	13102	20933	28993	31841	42092	33123	26719
10	201	519	2326	13102	20933	28993	31841	42092	33123	26719
Center	201	519	2326	13102	20933	28993	31841	42092	33123	26719
10	201	519	2326	13102	20933	28993	31841	42092	33123	26719
20	181	519	2326	13102	20933	28993	31841	42092	33123	26719
30	91	519	2326	13102	20933	28993	31841	42092	33123	26719
40	50	467	2326	13102	20933	28993	31841	42092	33123	26719
50	15	234	2093	13102	20933	28993	31841	42092	33123	26719
60	9	130	1047	13102	20933	28993	31841	42092	33123	26719
70	2	39	581	11791	20933	28993	31841	42092	33123	26719
80	0	23	174	5896	18840	28993	31841	42092	33123	26719
90	0	5	105	3275	9420	26094	31841	42092	33123	26719
100	0	0	23	983	5233	13047	31841	42092	33123	26719

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
14:30 PM

Results Reported in Gross CPM for Iodine Samples

Distance Off Center	Downwind Distances in Feet. 100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE

JULY 12 1995

Onsite and Nearsite Radiological Data
14:45 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100	0	0	13	557	2964	7391	16233	18341	14433	11642
90	0	3	59	1855	5336	14781	18036	18341	14433	11642
80	0	13	99	3340	10672	16424	18036	18341	14433	11642
70	1	22	329	6679	11858	16424	18036	18341	14433	11642
60	5	74	593	7422	11858	16424	18036	18341	14433	11642
50	9	132	1186	7422	11858	16424	18036	18341	14433	11642
40	29	265	1318	7422	11858	16424	18036	18341	14433	11642
30	51	294	1318	7422	11858	16424	18036	18341	14433	11642
20	103	294	1318	7422	11858	16424	18036	18341	14433	11642
10	114	294	1318	7422	11858	16424	18036	18341	14433	11642
Center	114	294	1318	7422	11858	16424	18036	18341	14433	11642
10	114	294	1318	7422	11858	16424	18036	18341	14433	11642
20	103	294	1318	7422	11858	16424	18036	18341	14433	11642
30	51	294	1318	7422	11858	16424	18036	18341	14433	11642
40	29	265	1318	7422	11858	16424	18036	18341	14433	11642
50	9	132	1186	7422	11858	16424	18036	18341	14433	11642
60	5	74	593	7422	11858	16424	18036	18341	14433	11642
70	1	22	329	6679	11858	16424	18036	18341	14433	11642
80	0	13	99	3340	10672	16424	18036	18341	14433	11642
90	0	3	59	1855	5336	14781	18036	18341	14433	11642
100	0	0	13	557	2964	7391	18036	18341	14433	11642

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE

JULY 12 1995

Onsite and Nearsite Radiological Data
14:45 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	13	557	2964	7391	16233	23844	18763	15135
90 -	0	3	59	1855	5336	14781	18036	23844	18763	15135
80 -	0	13	99	3340	10672	16424	18036	23844	18763	15135
70 -	1	22	329	6679	11858	16424	18036	23844	18763	15135
60 -	5	74	593	7422	11858	16424	18036	23844	18763	15135
50 -	9	132	1186	7422	11858	16424	18036	23844	18763	15135
40 -	29	265	1318	7422	11858	16424	18036	23844	18763	15135
30 -	51	294	1318	7422	11858	16424	18036	23844	18763	15135
20 -	103	294	1318	7422	11858	16424	18036	23844	18763	15135
10 -	114	294	1318	7422	11858	16424	18036	23844	18763	15135
Center -	114	294	1318	7422	11858	16424	18036	23844	18763	15135
10 -	114	294	1318	7422	11858	16424	18036	23844	18763	15135
20 -	103	294	1318	7422	11858	16424	18036	23844	18763	15135
30 -	51	294	1318	7422	11858	16424	18036	23844	18763	15135
40 -	29	265	1318	7422	11858	16424	18036	23844	18763	15135
50 -	9	132	1186	7422	11858	16424	18036	23844	18763	15135
60 -	5	74	593	7422	11858	16424	18036	23844	18763	15135
70 -	1	22	329	6679	11858	16424	18036	23844	18763	15135
80 -	0	13	99	3340	10672	16424	18036	23844	18763	15135
90 -	0	3	59	1855	5336	14781	18036	23844	18763	15135
100 -	0	0	13	557	2964	7391	18036	23844	18763	15135

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
14:45 PM

Results Reported in Gross CPM for Iodine Samples

Distance	Downwind Distances in Feet.									
Off Center	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
Center -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
10 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
20 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
30 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
40 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
50 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
60 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
70 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
80 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
90 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High
100 -	100	100	100	100	100	100	100	OffScale High	OffScale High	OffScale High

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500.000 cpm (Gross).

Emergency Preparedness Drill

NRC EXERCISE FOR NRC

JULY 12 1995

Onsite and Nearsite Radiological Data
15:00 PM

Closed Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	1	22	119	297	651	736	579	467
90 -	0	0	2	74	214	593	724	736	579	467
80 -	0	1	4	134	428	659	724	736	579	467
70 -	0	1	13	268	476	659	724	736	579	467
60 -	0	3	24	298	476	659	724	736	579	467
50 -	0	5	48	298	476	659	724	736	579	467
40 -	1	11	53	298	476	659	724	736	579	467
30 -	2	12	53	298	476	659	724	736	579	467
20 -	4	12	53	298	476	659	724	736	579	467
10 -	5	12	53	298	476	659	724	736	579	467
Center -	5	12	53	298	476	659	724	736	579	467
10 -	5	12	53	298	476	659	724	736	579	467
20 -	4	12	53	298	476	659	724	736	579	467
30 -	2	12	53	298	476	659	724	736	579	467
40 -	1	11	53	298	476	659	724	736	579	467
50 -	0	5	48	298	476	659	724	736	579	467
60 -	0	3	24	298	476	659	724	736	579	467
70 -	0	1	13	268	476	659	724	736	579	467
80 -	0	1	4	134	428	659	724	736	579	467
90 -	0	0	2	74	214	593	724	736	579	467
100 -	0	0	1	22	119	297	724	736	579	467

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill

NRC EXERCISE FOR NRC

JULY 12 1995

Onsite and Nearsite Radiological Data
15:00 PM

Open Window Meter Reading in mR/hr
Downwind Distances in Feet.

Distance off Center	100	200	300	400	500	600	700	800	900	1000
100 -	0	0	1	22	119	297	651	957	753	607
90 -	0	0	2	74	214	593	724	957	753	607
80 -	0	1	4	134	428	659	724	957	753	607
70 -	0	1	13	268	476	659	724	957	753	607
60 -	0	3	24	298	476	659	724	957	753	607
50 -	0	5	48	298	476	659	724	957	753	607
40 -	1	11	53	298	476	659	724	957	753	607
30 -	2	12	53	298	476	659	724	957	753	607
20 -	4	12	53	298	476	659	724	957	753	607
10 -	5	12	53	298	476	659	724	957	753	607
Center -	5	12	53	298	476	659	724	957	753	607
10 -	5	12	53	298	476	659	724	957	753	607
20 -	4	12	53	298	476	659	724	957	753	607
30 -	2	12	53	298	476	659	724	957	753	607
40 -	1	11	53	298	476	659	724	957	753	607
50 -	0	5	48	298	476	659	724	957	753	607
60 -	0	3	24	298	476	659	724	957	753	607
70 -	0	1	13	268	476	659	724	957	753	607
80 -	0	1	4	134	428	659	724	957	753	607
90 -	0	0	2	74	214	593	724	957	753	607
100 -	0	0	1	22	119	297	724	957	753	607

IF ANY VALUE ABOVE GREATER THAN MAXIMUM READING, REPORT OFFSCALE READING

INSTRUMENT MAXIMUM READING = 50,000 mR/hr (i.e. 50 R/hr)

IF ANY VALUE ABOVE LESS THAN MINIMUM READING, REPORT BACKGROUND READING

INSTRUMENT MINIMUM READING = 0.2 mR/hr

Emergency Preparedness Drill
NRC EXERCISE for 1995
July 12 1995

Onsite and Nearsite Radiological Data
15:00 PM

Results Reported in Gross CPM for Iodine Samples

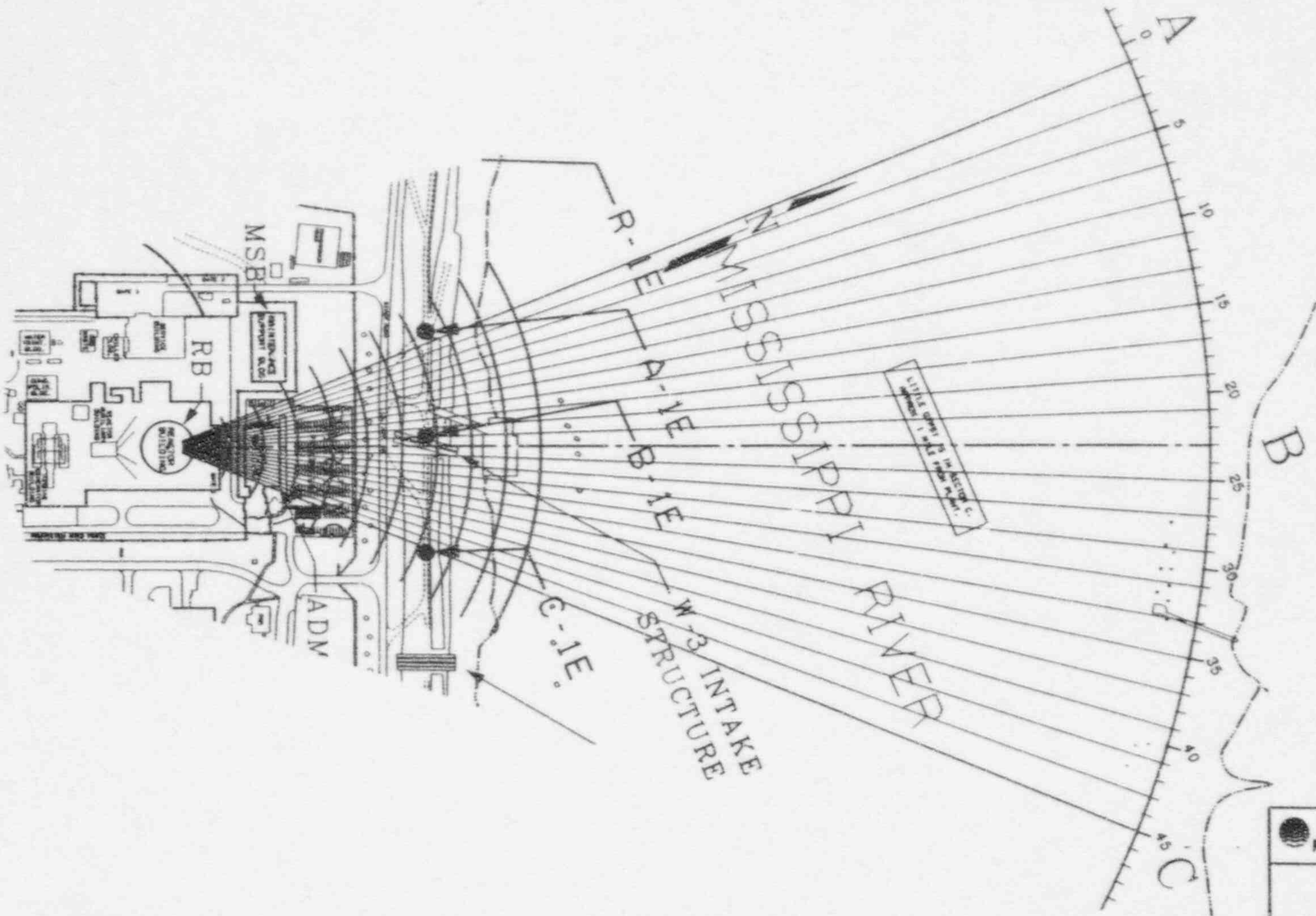
Distance	Downwind Distances in Feet.									
Off Center	100	200	300	400	500	600	700	800	900	1000
100 -	100	100	100	100	100	100	100	219,035	210,998	203,267
90 -	100	100	100	100	100	100	100	219,035	210,998	203,267
80 -	100	100	100	100	100	100	100	219,035	210,998	203,267
70 -	100	100	100	100	100	100	100	219,035	210,998	203,267
60 -	100	100	100	100	100	100	100	219,035	210,998	203,267
50 -	100	100	100	100	100	100	100	219,035	210,998	203,267
40 -	100	100	100	100	100	100	100	219,035	210,998	203,267
30 -	100	100	100	100	100	100	100	219,035	210,998	203,267
20 -	100	100	100	100	100	100	100	219,035	210,998	203,267
10 -	100	100	100	100	100	100	100	219,035	210,998	203,267
Center -	100	100	100	100	100	100	100	219,035	210,998	203,267
10 -	100	100	100	100	100	100	100	219,035	210,998	203,267
20 -	100	100	100	100	100	100	100	219,035	210,998	203,267
30 -	100	100	100	100	100	100	100	219,035	210,998	203,267
40 -	100	100	100	100	100	100	100	219,035	210,998	203,267
50 -	100	100	100	100	100	100	100	219,035	210,998	203,267
60 -	100	100	100	100	100	100	100	219,035	210,998	203,267
70 -	100	100	100	100	100	100	100	219,035	210,998	203,267
80 -	100	100	100	100	100	100	100	219,035	210,998	203,267
90 -	100	100	100	100	100	100	100	219,035	210,998	203,267
100 -	100	100	100	100	100	100	100	219,035	210,998	203,267

Background Samples Count Rates are: 100 - 300 cpm (Gross).
LM-12 Maximum Reading is 500,000 cpm (Gross).

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

OFFSITE RADIOLOGICAL DATA

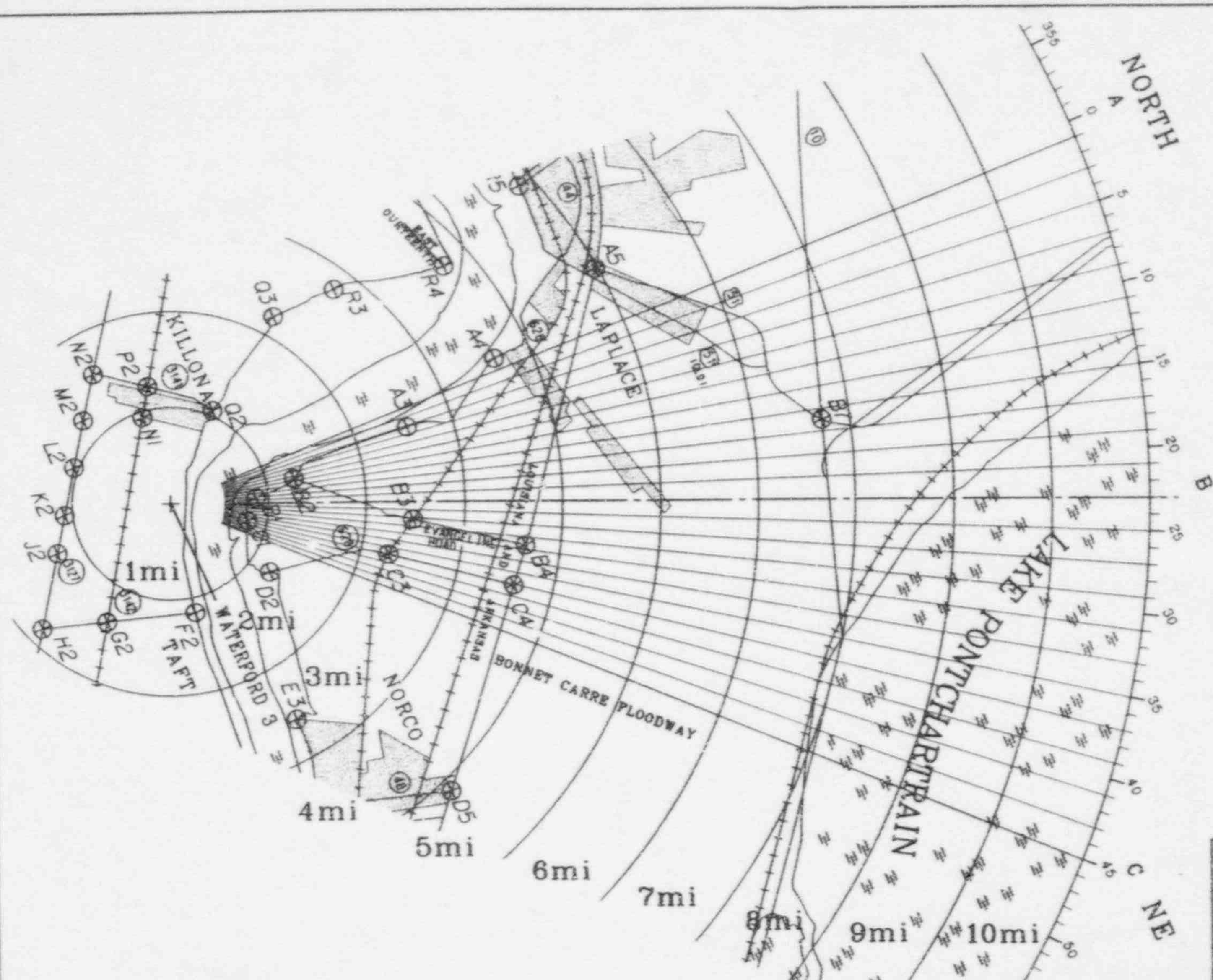
11:30 TO 15:00



ENTERGY	WATERFORD S.E.S. UNIT NO. 3 1165 MW INSTALLATION				
EMERGENCY PLAN 914 METER EXERCISE					
SCALE: NONE	APPROVED	DATE: NONE			
DEPT. NONE					
DR. C.A. Boyle	NONE	SK-B- SH.			
CH. NONE					

NO.	DATE	REVISION DESCRIPTION	BY	CH	APPROVED
0	7-13-94	ISSUED PER REQUEST			

FILENAME: ep.ex.914.dgn



ENTERGY	WATERFORD S.E.S. UNIT NO. 3 1165 MW INSTALLATION	
EMERGENCY PLAN 10 MILE EXERCISE		
SCALE: NONE	APPROVED	DATE: NONE
DEPT. NONE		
DR. C.A.B.	NONE	SK-B-SH.
CH. NONE		

NO.	DATE	REVISION DESCRIPTION	BY	CH	APPROVED
0	7-13-94	ISSUED PER REQUEST	(3)		

FILENAME: ep.ex.10m.dgn

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

DOSECODE CALCULATIONS

START OF RELEASE

USING PLANT STACK WIDE RANGE GAS MONITOR
MID RANGE

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available

PRM-IRE-0110 (MID)
DATE: 07-12-95
TIME: 12:00
AUTHOR: 1995 Annual Exercise

MONITOR	NOBLE GAS RELEASE RATE (Ci/Sec)
PRM-IRE-0110 (MID)	5.83E+01

IODINE RELEASE RATE(Ci / Sec)
2.27E+00

PROMPTLY PROVIDE THIS INFORMATION TO LRPD

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available
PRM-IRE-0110 (MID)
DATE: 07-12-95
TIME: 12:00
AUTHOR: 1995 Annual Exercise

INPUT ECHO

INPUT ITEM	INPUT VALUE	UNITS
AUTHOR	1995 Annual Exercise	
DATE	07-12-95	
TIME	12:00	
WIND SPEED	2.24	Meters/s
WIND DIRECTIO	203	Degrees
TEMP. DIFF.	-.49	C
DURATION	2	Hrs
ACCIDENT	LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available	
FAILURE	Cladding Barrier Failure	
MONITOR	PRM-IRE-0110 (MID)	
MON. READING	34	uCi/cc
FLOW RATE	5000	CFM

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available

PRM-IRE-0110 (MID)
DATE: 07-12-95
TIME: 12:00
AUTHOR: 1995 Annual Exercise

Release Data / Monitor	A Monitor Reading uCi/cc	B Conversion Factor	C Flow Rate(CFM)	D Noble Gas Release Rate Ci/sec A*B*C	E TEDE Dose Factor	F TEDE Dose Rate Factor D*E	G Iodine/ Noble Gas Ratio	H IODINE Release Rat Ci/sec D*G	I CDE Dose Factor	J CDE Dose Rate Factor H*I
PRM-IRE-0110 (LO)										
PRM-IRE-0110 (MID)	34.00	3.43E-04	5.00E+03	5.83100E+01	9.68E+05	5.64E+07	3.89E-02	2.268E+00	2.96E+08	6.71E+08
PRM-IRE-0110 (HI)										
PRM-IRE-0100.1S										
PRM-IRE-0100.2S										
PORTABLE SURVEY ME										

Location	1 Dose Rate Factor	2 Xu/Q	3 Wind Speed mph	4 Dose Rate mRem/hr	5 Exposure Duration	6 Projected Dose(mrem)
EAB-TEDE	5.64E+07	2.95E-04	5.02	3,316	2.00	6,632 *
EAB-CDE	6.71E+08	2.95E-04	5.02	39,444	2.00	78,887 *
2MI-TEDE	5.64E+07	4.73E-05	5.02	532	2.00	1,064 *
2MI-CDE	6.71E+08	4.73E-05	5.02	6,328	2.00	12,657 *
TEDE	5.64E+07	1.22E-05	5.02	137	2.00	275
5MI-CDE	6.71E+08	1.22E-05	5.02	1,635	2.00	3,269
10MI-TEDE	5.64E+07	4.43E-06	5.02	50	2.00	100
10MI-CDE	6.71E+08	4.43E-06	5.02	593	2.00	1,186

* This dose may indicate evacuation as a recommended protective action.
Consult EP-2-052.

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available

PRM-IRE-0110 (MID)
DATE: 07-12-95
TIME: 12:00
AUTHOR: 1995 Annual Exercise

AFFECTED SECTORS/PROTECTIVE RESPONSE AREAS
WIND DIRECTION FROM 203 deg.

AFFECTED SECTORS	PROTECTIVE RESPONSE AREAS 0-2 MILES	2-5 MILES	5-10 MILES
A,B,C	A1,B1,C1,D1	A2,B2	A3,B4

STABILITY index: D, NEUTRAL

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available
PRM-IRE-0110 (MID)
DATE: 07-12-95
TIME: 12:00
AUTHOR: 1995 Annual Exercise

DOSE PROJECTIONS

LOCATION:	DOSE RATE (MREM/HR)	PROJECTED DOSE (MREM)
EAB-TEDE	3,316	6,632 *
EAB-CDE	39,444	78,887 *
2MI-TEDE	532	1,064 *
2MI-CDE	6,328	12,657 *
5MI-TEDE	137	275
5MI-CDE	1,635	3,269
10MI-TEDE	50	100
10MI-CDE	593	1,186

* This dose may indicate evacuation as a recommended protective action. Consult EP-2-052.

AFFECTED SECTORS/PROTECTIVE RESPONSE AREAS

WIND DIRECTION FROM 203 deg.

AFFECTED SECTORS	PROTECTIVE RESPONSE AREAS 0-2 MILES	2-5 MILES	5-10 MILES
A,B,C	A1,B1,C1,D1	A2,B2	A3,B4

STABILITY index: D, NEUTRAL

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

DOSECODE CALCULATIONS

AT MAXIMUM RELEASE CONDITIONS

USING PLANT STACK WIDE RANGE GAS MONITOR
MID RANGE

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available

PRM-IRE-0110 (MID)
DATE: 07-12-95
TIME: 15:00
AUTHOR: 1995 Annual Exercise

MONITOR	NOBLE GAS RELEASE RATE (Ci/Sec)
PRM-IRE-0110 (MID)	9.60E+01

IODINE RELEASE RATE(Ci / Sec)
3.74E+00

PROMPTLY PROVIDE THIS INFORMATION TO LRPD

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available
PRM-IRE-0110 (MID)
DATE:)7-12-95
TIME: 15:00
AUTHOR: 1995 Annual Exercise

INPUT ECHO

INPUT ITEM	INPUT VALUE	UNITS
AUTHOR	1995 Annual Exercise	
DATE	)7-12-95	
TIME	15:00	
WIND SPEED	2.24	Meters/s
WIND DIRECTIO	203	Degrees
TEMP. DIFF.	-.49	C
DURATION	2	Hrs
ACCIDENT	LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available	
FAILURE	Cladding Barrier Failure	
MONITOR	PRM-IRE-0110 (MID)	
MON. READING	56	uCi/cc
FLOW RATE	5000	CFM

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available

PRM-IRE-0110 (MID)
DATE:)7-12-95
TIME: 15:00
AUTHOR: 1995 Annual Exercise

Release Data / Monitor	A Monitor Reading uCi/cc	B Conversion Factor	C Flow Rate(CFM)	D Noble Gas Release Rate Ci/sec A*B*C	E TEDE Dose Factor	F TEDE Dose Rate Factor D*E	G Iodine/ Noble Gas Ratio	H IODINE Release Rat Ci/sec D*G	I CDE Dose Factor	J CDE Dose Rate Factor H*I
PRM-IRZ-0110 (LO)										
PRM-IRE-0110 (MID)	56.00	3.43E-04	5.00E+03	9.60400E+01	9.68E+05	9.30E+07	3.89E-02	3.736E+00	2.96E+08	1.11E+09
PRM-IRE-0110 (HI)										
PRM-IRE-0100.1S										
PRM-IRE-0100.2S										
PORTABLE SURVEY ME										

Location	1 Dose Rate Factor	2 Xu/Q	3 Wind Speed mph	4 Dose Rate mRem/hr	5 Exposure Duration	6 Projected Dose(mrem)
EAB-TEDE	9.30E+07	2.95E-04	5.02	5,462	2.00	10,923 *
EAB-CDE	1.11E+09	2.95E-04	5.02	64,966	2.00	129,932 *
2MI-TEDE	9.30E+07	4.73E-05	5.02	876	2.00	1,753 *
2MI-CDE	1.11E+09	4.73E-05	5.02	10,423	2.00	20,846 *
TEDE	9.30E+07	1.22E-05	5.02	226	2.00	453
5MI-CDE	1.11E+09	1.22E-05	5.02	2,692	2.00	5,385 *
10MI-TEDE	9.30E+07	4.43E-06	5.02	82	2.00	164
10MI-CDE	1.11E+09	4.43E-06	5.02	977	2.00	1,954

* This dose may indicate evacuation as a recommended protective action.
Consult EP-2-052.

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Pl nt Stack) Cladding Barrier Failure - Containment Spray Available

PRM-IRE-0110 (MID)
DATE:)7-12-95
TIME: 15:00
AUTHOR: 1995 Annual Exercise

AFFECTED SECTORS/PROTECTIVE RESPONSE AREAS
WIND DIRECTION FROM 203 deg.

AFFECTED SECTORS	PROTECTIVE RESPONSE AREAS 0-2 MILES	2-5 MILES	5-10 MILES
A,B,C	A1,B1,C1,D1	A2,B2	A3,B4

STABILITY index: D, NEUTRAL

WATERFORD 3 STEAM ELECTRIC STATION

LOCA (Plant Stack) Cladding Barrier Failure - Containment Spray Available
PRM-IRE-0110 (MID)
DATE:)7-12-95
TIME: 15:00
AUTHOR: 1995 Annual Exercise

DOSE PROJECTIONS

LOCATION:	DOSE RATE (MREM/HR)	PROJECTED DOSE (MREM)
EAB-TEDE	5,462	10,923 *
EAB-CDE	64,966	129,932 *
2MI-TEDE	876	1,753 *
2MI-CDE	10,423	20,846 *
5MI-TEDE	226	453
5MI-CDE	2,692	5,385 *
10MI-TEDE	82	164
10MI-CDE	977	1,954

* This dose may indicate evacuation as a recommended protective action.
Consult EP-2-052.

AFFECTED SECTORS/PROTECTIVE RESPONSE AREAS

WIND DIRECTION FROM 203 deg.

AFFECTED SECTORS	PROTECTIVE RESPONSE AREAS 0-2 MILES	2-5 MILES	5-10 MILES
A,B,C	A1,B1,C1,D1	A2,B2	A3,B4

STABILITY index: D, NEUTRAL

EMERGENCY PREPAREDNESS EXERCISE
NRC EXERCISE FOR 1995
JULY 12 1995

OFFSITE RADIOLOGICAL DATA

LOCATION	TIME	CLOSED WINDOW DR mR/hr	OPEN WINDOW DR mR/hr	AIR SAMPLE GROSS COUNT RATE (CPM)	BKGND COUNT RATE (CPM)	DEPOSITION CPM/ 100 cm^2	CDE THYROID DOSE RATE (mR/hr)	χ/Q (Sec/M^3)
B-1E(NNE)	1147	0.0	0.0	300	300	0	0	2.36E-04
	1202	13,402	22,081	5,753,218	400	5,022	159,423	
	1217	12,925	21,294	5,548,215	400	9,865	153,742	
	1232	12,808	21,102	5,498,191	400	14,664	152,355	
	1247	14,652	24,140	6,289,755	400	20,154	174,291	
	1302	16,590	27,332	7,121,535	400	26,370	197,342	
	1317	17,184	28,311	7,376,561	400	32,809	204,409	
	1332	17,779	29,290	7,631,589	400	39,471	211,476	
	1347	19,218	31,662	8,249,538	400	46,672	228,601	
	1402	20,658	34,034	8,867,488	400	54,412	245,726	
	1417	21,081	34,730	9,048,949	400	62,311	250,755	
	1432	22,417	36,933	9,622,759	400	70,710	266,656	
	1447	12,699	20,921	5,451,109	400	75,469	151,051	
	1502	510	840	219,035	300	75,659	6,062	
B-1(NNE)	1155	0.0	0.0	300	300	0	0	2.50E-05
	1210	1,420	2,339	609,447	100	532	16,886	
	1225	1,369	2,255	587,733	100	1,045	16,285	
	1240	1,357	2,235	582,434	100	1,553	16,138	
	1255	1,552	2,557	666,277	100	2,135	18,461	
	1310	1,757	2,895	754,381	100	2,793	20,903	
	1325	1,820	2,999	781,394	100	3,475	21,651	
	1340	1,883	3,102	808,406	100	4,181	22,400	
	1355	2,036	3,354	873,860	100	4,944	24,214	
	1410	2,188	3,605	939,315	100	5,763	26,028	
	1425	2,233	3,679	958,535	100	6,600	26,560	
	1440	2,374	3,912	1,019,314	100	7,490	28,245	
	1455	1,345	2,216	577,447	100	7,994	16,000	
	1510	54	89	23,469	300	8,014	642	
B-2(NNE)	1200	0.0	0.0	300	300	0	0	4.07E-07
	1215	23	38	10,222	300	9	275	
	1230	22	37	9,869	300	17	265	
	1245	22	36	9,783	300	25	263	
	1300	25	42	11,148	300	35	301	
	1315	29	47	12,583	300	45	340	
	1330	30	49	13,022	300	57	353	
	1345	31	51	13,462	300	68	365	
	1400	33	55	14,528	300	80	394	
	1415	36	59	15,594	300	94	424	
	1430	36	60	15,907	300	107	433	
	1445	39	64	16,897	300	122	460	
	1500	22	36	9,701	300	130	261	
	1515	0.9	1.4	677	300	65	10	

IF CLOSE OR OPEN WINDOW READING IS GREATER THAN 50,000 mR/hr (50 R/hr), REPORT OFFSCALE READING

IF CLOSE OR OPEN WINDOW READING IS LESS THAN 0.2 mR/hr, REPORT BACKGROUND READING

IF AIR SAMPLE GROSS COUNT RATE IS GREATER THAN 500,000 CPM, REPORT OFFSCALE READING

DEPOSITION CPM PROVIDED, ARE CPM OVER BACKGROUND

FOR OTHER ESTABLISHED SAMPLE POINTS, REPORT AS FOLLOWING:
- **FOR CLOSED AND OPEN WINDOW READING, REPORT IT 'AS FOUND' READING.**
- **FOR AIR SAMPLE IODINE COUNT RATE, REPORT IT 'BACKGROUND COUNT RATE'.**

EMERGENCY PREPAREDNESS EXERCISE
NRC EXERCISE FOR 1995
JULY 12 1995

OFFSITE RADIOLOGICAL DATA

LOCATION	TIME	CLOSED WINDOW DR mR/hr	OPEN WINDOW DR mR/hr	AIR SAMPLE GROSS COUNT RATE (CPM)	BKGND COUNT RATE (CPM)	DEPOSITION CPM/ 100 cm^2	CDE THYROID DOSE RATE (mR/hr)	X/Q (Sec/M^3)
B-3(NNE)	1215	0.0	0.0	300	300	0	0	3.93E-06
	1230	223	368	96,049	300	84	2,653	
	1245	215	354	92,637	300	164	2,559	
	1260	213	351	91,805	300	244	2,536	
	1315	244	402	104,980	300	335	2,901	
	1330	276	455	118,824	300	439	3,285	
	1345	286	471	123,068	300	546	3,402	
	1360	296	488	127,313	300	657	3,520	
	1415	320	527	137,598	300	777	3,805	
	1430	344	566	147,883	300	906	4,090	
	1445	351	578	150,903	300	1,037	4,174	
	1460	373	615	160,454	300	1,177	4,438	
	1515	211	348	91,021	300	1,256	2,514	
	1530	8.5	14.0	3,941	300	630	101	
B-4(NNE)	1229	0.0	0.0	300	300	0	0	6.08E-07
	1244	35	57	15,123	300	13	411	
	1259	33	55	14,595	300	25	396	
	1314	33	54	14,466	300	38	393	
	1329	38	62	16,505	300	52	449	
	1344	43	70	18,648	300	68	508	
	1359	44	73	19,306	300	85	527	
	1414	46	75	19,963	300	102	545	
	1429	50	82	21,555	300	120	589	
	1444	53	88	23,147	300	140	633	
	1459	54	89	23,615	300	161	646	
	1514	58	95	25,093	300	182	687	
	1529	33	54	14,344	300	194	389	
	1544	1.3	2.2	864	300	97	16	
B-7(NNE)	1306	0.0	0.0	300	300	0	0	1.96E-07
	1321	11	18	5,069	300	4	132	
	1336	11	18	4,899	300	8	127	
	1351	11	17	4,858	300	12	126	
	1406	12	20	5,514	300	17	144	
	1421	14	23	6,204	300	22	164	
	1436	14	23	6,415	300	27	169	
	1451	15	24	6,626	300	33	175	
	1506	16	26	7,139	300	39	190	
	1521	17	28	7,651	300	45	204	
	1536	17	29	7,802	300	52	208	
	1551	19	31	8,277	300	59	221	
	1606	11	17	4,819	300	63	125	
	1621	0.4	0.7	481	300	31	5	

IF CLOSE OR OPEN WINDOW READING IS GREATER THAN 50,000 mR/hr (50 R/hr), REPORT OFFSCALE READING

IF CLOSE OR OPEN WINDOW READING IS LESS THAN 0.2 mR/hr, REPORT BACKGROUND READING

IF AIR SAMPLE GROSS COUNT RATE IS GREATER THAN 500,000 CPM, REPORT OFFSCALE READING

DEPOSITION CPM PROVIDED, ARE CPM OVER BACKGROUND

FOR OTHER ESTABLISHED SAMPLE POINTS, REPORT AS FOLLOWING:
- FOR CLOSED AND OPEN WINDOW READING, REPORT IT 'AS FOUND' READING.
- FOR AIR SAMPLE IODINE COUNT RATE, REPORT IT 'BACKGROUND COUNT RATE'.

EMERGENCY PREPAREDNESS EXERCISE
NRC EXERCISE FOR 1995
JULY 12, 1995

OFFSITE RADIOLOGICAL DATA

LOCATION	TIME	CLOSED WINDOW DR mR/hr	OPEN WINDOW DR mr/hr	AIR SAMPLE GROSS COUNT RATE (CPM)	BKGND COUNT RATE (CPM)	DEPOSITION CPM/ 100 cm^2	CDE THYROID DOSE RATE (mR/hr)	X/Q (Sec/M^3)
C-1E(NE)	1155	0.0	0.0	300	300	0	0	2.80E-07
	1210	0.1	0.2	345	300	0	1	
	1225	0.1	0.2	343	300	0	1	
	1240	0.1	0.2	343	300	0	1	
	1255	0.1	0.2	349	300	0	1	
	1310	0.1	0.2	356	300	0	2	
	1325	0.1	0.2	358	300	0	2	
	1340	0.1	0.2	360	300	0	2	
	1355	0.2	0.3	365	300	0	2	
	1410	0.2	0.3	369	300	0	2	
	1425	0.2	0.3	371	300	0	2	
	1440	0.2	0.3	375	300	1	2	
	1455	0.1	0.2	343	300	1	1	
	1510	0.0	0.0	302	300	0	0	
C-3(NE)	1212	0.0	0.0	300	300	0	0	7.37E-09
	1227	0.4	0.7	480	300	0	5	
	1242	0.4	0.7	473	300	0	5	
	1257	0.4	0.7	472	300	0	5	
	1312	0.5	0.8	496	300	0	5	
	1327	0.5	0.9	522	300	0	6	
	1342	0.5	0.9	530	300	1	6	
	1357	0.6	0.9	538	300	1	7	
	1412	0.6	1.0	558	300	1	7	
	1427	0.6	1.1	577	300	1	8	
	1442	0.7	1.1	583	300	1	8	
	1457	0.7	1.2	600	300	1	8	
	1512	0.4	0.7	470	300	1	5	
	1527	0.0	0.0	307	300	1	0	
C-4(NE)	1228	0.0	0.0	300	300	0	0	1.98E-09
	1243	0.1	0.2	348	300	0	1	
	1258	0.1	0.2	346	300	0	1	
	1313	0.1	0.2	346	300	0	1	
	1328	0.1	0.2	353	300	0	1	
	1343	0.1	0.2	360	300	0	2	
	1358	0.1	0.2	362	300	0	2	
	1413	0.1	0.2	364	300	0	2	
	1428	0.2	0.3	369	300	0	2	
	1443	0.2	0.3	374	300	0	2	
	1458	0.2	0.3	376	300	0	2	
	1513	0.2	0.3	381	300	0	2	
	1528	0.1	0.2	346	300	0	1	
	1543	0.0	0.0	302	300	0	0	

IF CLOSE OR OPEN WINDOW READING IS GREATER THAN 50,000 mR/hr (50 R/hr), REPORT OFFSCALE READING

IF CLOSE OR OPEN WINDOW READING IS LESS THAN 0.2 mR/hr, REPORT BACKGROUND READING

IF AIR SAMPLE GROSS COUNT RATE IS GREATER THAN 500,000 CPM, REPORT OFFSCALE READING

DEPOSITION CPM PROVIDED, ARE CPM OVER BACKGROUND

FOR OTHER ESTABLISHED SAMPLE POINTS, REPORT AS FOLLOWING:
- FOR CLOSED AND OPEN WINDOW READING, REPORT IT 'AS FOUND' READING.
- FOR AIR SAMPLE IODINE COUNT RATE, REPORT IT 'BACKGROUND COUNT RATE'.

Sample Location	Closed Window mR/hr	Open Window mR/hr	Air Sample Count Rate CPM	BKGRND Count Rate CPM
A3	As Found	As Found	As Found	As Found
A4	As Found	As Found	As Found	As Found
A5	As Found	As Found	As Found	As Found

VIII. DRILL TEAM ASSIGNMENTS

WATERFORD 3 ANNUAL EXERCISE
JULY 12, 1995

DRILL TEAM ASSIGNMENTS

CONTROLLERS

NO.	DRILL TEAM POSITION	FACILITY	NAME
1.	Lead Controller	ALL	S. Lubinski
2.	Control Room Controller	SIMULATOR	W. Smith
3.	TSC Controller	TSC	A. Cilluffa
4.	OSC Controller	OSC	T. Moore
5.	EOF Controller	EOF	B. Thigpen
6.	Lead Controller Assistant/ Communications Controller	CR/TSC/EOF	G. Perque
7.	Health Physics Controller	-4	B. Goldman
8.	Dose Assessment Controller	CR/TSC/EOF	S. Ramzy
9.	Chemistry Controller	CHEM	M. Layton
10.	Security Controller	SECURITY	J. Gremillion
11.	Medical Controller	HOSPITAL	B. Crawley
12.	ENC Controller	ENC	D. Koehler

MONITORS

NO.	DRILL TEAM POSITION	FACILITY	NAME
1.	Simulator Operator	SIMULATOR	B. Hardin
2.	Control Room Monitor	SIMULATOR	C. Rogers
3.	Admin. NPO	TSC	TBD
4.	NAO Monitor	IN-PLANT	TBD
5.	NAO Monitor	IN-PLANT	TBD
6.	NAO Monitor	IN-PLANT	TBD
7.	Control Room Communications Monitor	SIMULATOR	G. Miller
8.	TSC Communications Monitor	TSC	J. Kieff
9.	EOF Communications Monitor	EOF	G. Pohlmann
10.	TSC Dose Assessment Area Monitor	TSC	K. Boudreaux
11.	Health Physics Coordinator Monitor	TSC	D. Stevens
12.	EOF Dose Assessment Monitor	EOF	D. Rieder
13.	Radiological Assessment Coord. Monitor	EOF	D. Boan
14.	TSC Technical Assessment Monitor	TSC	B. Porter
15.	EOF Technical Assessment Monitor	EOF	J. Holman
16.	Licensing Coordinator Monitor	EOF	R. Prados
17.	Offsite Technical Advisor Monitor	EOF	C. Taylor
18.	Chemistry Monitor	CHEM	D. Marse

DRILL TEAM ASSIGNMENTS (CONT'D)

MONITORS (CONT'D)

NO.	DRILL TEAM POSITION	FACILITY	NAME
19.	Onsite Medical Monitor	W3/ HOSPITAL	K. Fedrick
20.	Offsite Medical Monitor	HOSPITAL	B. Gilboy
21.	Security Monitor	SECURITY	E. Burgett
22.	Entergy System Liaison Monitor	EOF	L. Groseclose
23.	Health Physics Monitor	IN-PLANT	M. Moe
24.	Health Physics Monitor	IN-PLANT	D. Newman
25.	Health Physics Monitor	IN-PLANT	T. McLain
26.	Health Physics Monitor	IN-PLANT	M. VanDerHorst
27.	OSC Health Physics Monitor	OSC	P. Kelly
28.	Field Monitoring Team "A" Monitor	-4	F. Davis
29.	Field Monitoring Team "B" Monitor	-4	R. McLendon
30.	Field Monitoring Team "C" Monitor	-4	J. Hand
31.	Assembly Area Supervisor Monitor	OSC	M. Wilson
32.	OSC Monitor	OSC	B. Peters
33.	Mechanical Repair Team Monitor	OSC	H. Willie
34.	Mechanical Repair Team Monitor	OSC	B. Petit
35.	Mechanical Repair Team Monitor	OSC	L. Chenier
36.	Electrical Repair Team Monitor	OSC	A. Haas
37.	Electrical Repair Team Monitor	OSC	R. Thorne
38.	I&C Repair Team Monitor	OSC	G. Ray
39.	I&C Repair Team Monitor	OSC	S. Brown

IX. DRILL TEAM INSTRUCTIONS

IX. DRILL TEAM INSTRUCTIONS

CONTROLLER INSTRUCTIONS

Controllers are accountable to the Lead Controller. At least one Controller is assigned to each key area of emergency response. The Controllers are responsible for controlling the continuity of the scenario in their assigned area by introducing messages or data at appropriate times. The Controllers guard against actions that would adversely affect actual plant operations or that would significantly affect the scenario timeline. Controllers are responsible for the conduct of the Monitors in their assigned area.

1. All Controllers will have completed Drill Team Training at least once within the 12 month period preceding the exercise. Drill Team Training, for personnel who haven't completed this requirement, is scheduled for Tuesday, June 27, 1995 at 10:00 AM in the Administration Building Assembly Room.

2. Each Controller shall attend the applicable package walkdown meeting for their area.

3. Each Controller shall attend the Pre-Exercise Briefing in the Visitor Center Auditorium at 1:00 PM on July 11, 1995.

4. Each Controller shall attend the NRC Exercise Briefing at 3:00 PM in the Riverland Credit Union Building Emergency Planning Conference Room on July 11, 1995.

5. Controllers will be on station at least 15 minutes prior to the start of the exercise activities in their assigned areas on July 12, 1995.

6. Each Controller will have, as part of their package, cue cards and copies of time related data parameters. This information is to be issued, as appropriate, to the Exercise participants only after the participant has performed all of the activities prerequisite to the point where the data would become available under actual conditions. The actual giving of the cue card to the participant should be limited to those instances which are specifically called for by the cue card or when announcements or procedure substitutions are required by the exercise package.

7. Radiological data is normally provided only for areas affected by the postulated scenario conditions. If radiological data is not provided for an area, it may be assumed that the area is not affected by scenario conditions and the participants should use actual radiological measurements.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

CONTROLLER INSTRUCTIONS (CONT'D)

8. Controllers will not provide information to the exercise participants regarding scenario development or the expected resolution of the problem. Exercise participants shall obtain information through the emergency organization exercising their own judgment in problem solving.

9. Controllers should identify the Federal Evaluators(s) in their area. Make sure that they are reasonably aware of all your actions and those of the participants. Answer any questions the Evaluators may have regarding the scenario activities.

10. Some of the exercise participants may insist that certain parts of the scenario are unrealistic. The Controllers have the authority to clarify these areas in a manner such that the participant is able to continue without divulging the scenario content.

11. Each Controller shall take detailed notes, using the Drill/Exercise Critique Sheet, regarding the progress of the exercise and the response of the exercise participants in their assigned area. Each Controller should note the arrival and departure times of exercise participants, the times of major activities or milestones, the results of significant decision making discussions and problem areas encountered. Controller comments should address the response of the exercise participants necessary to meet specific exercise objectives, probable causes for problem areas encountered and the evaluation elements listed in the Drill/Exercise Evaluation Checklists.

12. Safety takes precedence over all other exercise requirements. Drill Control Team members should ensure that the exercise participants follow all safety rules, take no unnecessary risks, use all safeguards and protective equipment provided and make safety a part of their responsibilities.

13. Controllers do not have to follow the radiation exposure control practices implemented for the simulated exercise radiological conditions specified in the scenario. However, the participants <u>must</u> follow all radiological protection rules. Controllers and participants entering normal plant radiation controlled areas <u>must observe all normal radiological control practices</u>.

14. The exercise is expected to be completed at about 1:00 PM, July 12, 1995. At this time, Controllers will meet in their respective areas with the Monitors and participants for the post exercise area critiques. Controllers will pass out the Drill/Exercise Participant Comment Sheets for feedback from the participants. The Controllers and Monitors will also discuss the participants' response in their areas.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

CONTROLLER INSTRUCTIONS (CONT'D)

15. Controllers will meet with the Monitors assigned to their area on July 13, 1995 at 7:00 AM in the Administration Building Assembly Room for the purpose of preparing their exercise evaluation. Each Controller will fully debrief each of the Monitors and/or observers assigned to their area and complete the Drill/Exercise Evaluation Report Sheets and the Drill/Exercise Controller Comments Sheets.

16. Controllers will attend the Controller Debriefing on July 13, 1995 at approximately 8:30 AM in the Administration Building Assembly Room. Each Controller will debrief Emergency Planning on the activities in their assigned area. Controllers may choose to invite Monitors to attend this debriefing to assist in their presentation.

17. Controllers may be asked to attend the Participants Critique at 2:00 PM on July 14, 1995 in the Administration Building Assembly Room. During this critique, Controllers may assist Emergency Planning management in briefing the exercise participants on the evaluation of the exercise.

18. Drill Control Team Documentation - Exercise Controllers will use the following documents to generate their evaluation of the participants and equipment performance observed:

    a. Drill/Exercise Critique Sheet - This form is used by the Drill Control Team to maintain a comprehensive chronological description of the response, events and activities observed in their assigned area.

    b. Drill/Exercise Evaluation Checklist - These checklists provide specific evaluation criteria for each area of response and should be used as a guide in the evaluation of the exercise.

    c. Drill/Exercise Evaluation Report Sheet - This form will be completed by the Controllers based on personal observations and the observations made by the Monitors in your assigned area during the exercise. The Controllers will list areas of emergency response requiring improvement and any equipment deficiencies noted during the exercise.

    d. Drill/Exercise Controller Comment Sheet - This form is completed by the Controllers based on personal observations and the observations made by the Monitors in your assigned area during the exercise. The Controllers will document exceptional performance and any minor problem areas which are not programmatic in nature.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

MONITOR INSTRUCTIONS

Monitors are accountable to the Controller for their assigned area. Generally, at least one Monitor is assigned for each event or sequence of events for which the exercise participants need information or data, or to each location where an action critical to the scenario is expected to occur. The Monitors are responsible for introducing messages or data at appropriate times as specified in the scenario package. The Monitors guard against actions which would adversely affect actual plant operations or that would significantly affect the scenario timeline. Monitors are not authorized to deviate from the activities as specified in the scenario package without the approval of the Controller for their area. If the actions of the participants would adversely affect the continuity of the scenario or actual plant operations, the Monitors shall notify their Controller immediately.

1. All Monitors will have completed Drill Team Training at least once within the 12 month period preceding the exercise. Drill Team Training, for personnel who haven't completed this requirement, is scheduled for Tuesday, June 27, 1995 at 10:00 AM in the Administration Building Assembly Room.

2. Each Monitor shall attend the applicable package walkdown meeting for their area.

3. Each Monitor shall attend the Pre-Exercise Briefing in the Visitor Center Auditorium at 1:00 PM on July 11, 1995.

4. Monitors will be on station at least 15 minutes prior to the start of the exercise activities in their assigned areas on July 12, 1995.

5. Each Monitor will have, as part of their package, cue cards and copies of time related data parameters. This information is to be issued, as appropriate, to the Exercise participants only after the participant has performed all of the activities prerequisite to the point where the data would become available under actual conditions. The actual giving of the cue card to the participant should be limited to those instances which are specifically called for by the cue card or when announcements or procedure substitutions are required by the exercise package.

6. Radiological data is normally provided only for areas affected by the postulated scenario conditions. If radiological data is not provided for an area, it may be assumed that the area is not affected by scenario conditions and the participants should use actual radiological measurements.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

MONITOR INSTRUCTIONS (CONT'D)

7. Monitors will not provide information to the exercise participants regarding scenario development or the expected resolution of the problem. Exercise participants shall obtain information through the emergency organization exercising their own judgment in problem solving.

8. Monitors should identify the Federal Evaluators(s) in their area. Make sure that they are reasonably aware of all your actions and those of the participants. Answer any questions the Evaluators may have regarding the scenario activities.

9. Some of the exercise participants may insist that certain parts of the scenario are unrealistic. Any questions pertaining to portions of the scenario which may be considered unrealistic by the participants will be resolved by the Controller for that area, except in cases specifically addressed in the scenario package.

10. Each Monitor shall take detailed notes, using the Drill/Exercise Critique Sheet, regarding the progress of the exercise and the response of the exercise participants in their assigned area. Each Monitor should note the arrival and departure times of exercise participants, the times of major activities or milestones, the results of significant decision making discussions and problem areas encountered. Monitor comments should address the response of the exercise participants necessary to meet specific exercise objectives, probable causes for problem areas encountered and the evaluation elements listed in the Drill/Exercise Evaluation Checklists.

11. Safety takes precedence over all other exercise requirements. Drill Control Team members should ensure that the exercise participants follow all safety rules, take no unnecessary risks, use all safeguards and protective equipment provided and make safety a part of their responsibilities.

12. Monitors do not have to follow the radiation exposure control practices implemented for the simulated exercise radiological conditions specified in the scenario. However, the participants must follow all radiological protection rules. Monitors and participants entering normal plant radiation controlled areas must observe all normal radiological control practices.

13. The exercise is expected to be completed at about 1:00 PM, July 12, 1995. At this time, Monitors will meet in their respective areas with the Controllers and participants for the post exercise area critiques. Field Team Monitors will meet at the EOF, with the field teams.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

MONITOR INSTRUCTIONS (CONT'D)

14. Immediately upon termination of the exercise, the Monitors will assist the Controllers in collecting all documentation generated by the participants during the exercise. This documentation should include all records, logs, forms, memos and samples collected by the field monitoring teams.

15. The Monitors will meet with the Controllers on July 13, 1995 at 7:30 AM in the Administration Building Assembly Room for the purpose of providing their exercise evaluation comments to the Controllers. Each Monitor will be fully debriefed by the Controllers to complete the evaluation for each area.

16. Monitors, at the request of the Controller, may attend the Controller Debriefing on July 13, 1995 at approximately 8:30 AM in the Administration Building Assembly Room.

17. Drill Control Team Documentation - Exercise Monitors will use the following documents to generate their evaluation of the participants and equipment performance observed:

    a. Drill/Exercise Critique Sheet - This form is used by the Drill Control Team to maintain a comprehensive chronological description of the response, events and activities observed in their assigned area.

    b. Drill/Exercise Evaluation Checklist - These checklists provide specific evaluation criteria for each area of response and should be used as a guide in the evaluation of the exercise.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

OBSERVER INSTRUCTIONS

Observers are personnel who serve no evaluation, drill control or participatory function in the exercise. Observers will report to the Controller for the area being observed and will not interfere with the exercise activities.

1. The exercise event times and scenario are confidential and should be kept confidential throughout the exercise. Observers shall not discuss them with the exercise participants.

2. Arm bands are worn during the exercise to identify the function of personnel as follows:

RED Arm Band	-	Controllers
GREEN Arm Band	-	Monitors
YELLOW Arm Band	-	Participants
BLUE Arm Band	-	Evaluator
WHITE Arm Band	-	Observers

Observers shall obtain a white arm band from the Controller in the area being observed and wear it throughout the exercise.

3. Observers shall not participate in the exercise nor interfere with the actions taken by the participants, Controllers, Monitors or evaluators.

4. Within emergency response facilities, Observers shall position themselves such that status boards, charts, access to equipment, etc. are not blocked. If congestion becomes a problem, Observers may be asked to leave temporarily by a Controller, Monitor or participant.

5. During the exercise, Observers shall direct all questions to a Controller or Monitor. Only after the exercise has been terminated may the Observers direct questions to the participants.

IX. DRILL TEAM INSTRUCTIONS (CONT'D)

OBSERVER INSTRUCTIONS (CONT'D)

6. Safety takes precedence over all other exercise requirements. Observers should heed the following safety guidelines:

   a. In cases of accidents/injury, report to a Controller or Monitor and assist as required.

   b. Report any hazardous condition to a Controller or Monitor.

   c. Follow general safety practices. Make safety a part of your responsibilities.

   d. In the case of a fire, or other actual emergency, follow the instructions of the Controller or Monitor in the area being observed.

   e. Do not touch, or attempt to operate, any equipment in the emergency facilities. If time permits, the Controller or Monitor may demonstrate the use of emergency equipment for you.

X. REFERENCES

A. Manuals

- W3 SES Emergency Plan
- W3 SES Final Safety Analysis Report

B. Procedures

W3 SES Emergency Plan Implementing and Supporting Procedures

Plant Operating Manuals

C. Guidance Documents

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

D. Task Cards

Periodic Drill Requirements

Monthly
- 10 mile EPZ Communication Drill (Repetitive Task # 000060)

Quarterly
- 50 mile EPZ Communication Drill (Repetitive Task # 000062)

Semi-Annual
- Health Physics Drill Sample Analysis - Rad. Measurement (Repetitive Task # 000065)

Annual
- Plant Environmental Radiation Monitoring Drill (Repetitive Task # 000063)
- Plant liquid PASS sample analysis (Repetitive Task #000066)