WATTS BAR NUCLEAR PLANT
1993 ANNUAL EXERCISE

Developed by the WBN Scenario Development Team

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140114

October 6, 1993 Watts Bar Nuclear Plant
Radiological Emergency Exercise Information

The 1993 Watts Bar Radiological Emergency Plan Annual Exercise will be initiated from the Simulator on October 6, 1993 and will have an approximate duration of 6 to 8 hours. The exercise will involve the onsite TVA emergency organizations and the offsite State & Local response agencies.

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1993 WATTS BAR GRADED EXERCISE
CONTROLLERS AND EVALUATORS

		PHONE	PAGER
EXERCISE COORDINATOR			
	Clyde T. Benton	1221	30644
CENTRAL EMERGENCY CONTROL CENTER			
Lead Controller	Tom Adkins	1641,1655	30398
Rad Assessment Controller	Randy Ford/J.J. Johnson	1641,1655	30414
Plant Assessment Controller	Mike Lorek	1641,1655	—
Plant Assessment Controller (Fuels)	Andrew Sanislo	—	—
RMCC Controller	David Pond/David Sorrelle	—	—
Van Controller	Wayne Parks	See CECC	60294
Van Controller	Tom Shirley	EPIP-9	—
Van Controller	Bill Kennedy		
Public Information Controller	Jim Dodson		30041
State Controller (Nashville)	Ed Webb	(615)741-0225	
Evaluator	Tim Cornelius	1641	99792
Evaluator	Nick Catron	1641	39379
CONTROL ROOM/SIMULATOR			
Lead Controller	Mark Luksic	1338	
Simulator Operator	Katie Lovell	3718	—
Simulator Controller	Jimmy Johnson	1338	—
Control Room Liaison	Dave Kulisek	8401	90057
Evaluator	Andy Anderson	1338	60296
TECHNICAL SUPPORT CENTER			
Lead Controller	Kenneth King	8619	39407
Radcon Controller	John Politte	8619	60298
Chemistry Controller	Vernon Shanks	8626	—
Operations Controller	Newton Lacy	8619	—
Technical Assessment Controller	Rory Warren	8626	70325
Evaluator	Dennis Koehl	8619	30520
OPERATIONS SUPPORT CENTER			
Lead Controller	Bill Peggram	8289	30388
Mechanical Controller (Lead)	Dennis Collins	8298	40514
Mechanical Controller	King Turnbull	8298	20425
Mechanical Controller	Lee Haack	8298	20414
Electrical Controller	Ed Massey	8298	20424
I&C Controller	Charles Brush	8298	20417
Chemistry Controller (lab)	Phil Prichard	8339	70347
Nuclear Security Controller	Brad Hamblin	8289	
Fire Protection Controller	B.J. Williams	—	39163
Fire Protection Controller	A.J. Salatka	8298	—
MERT Controller	Wayne Dedmon	8298	
Radcon Controller (Lead)	Henry Champagne	8298	60293
Radcon Controller	Don Hall	8298	60300
Radcon Controller	Chuck Tocco	8298	60291
Radcon Controller	Lee Thomas	8298	20451
Radcon Controller	Bill Gillen	8298	60303
Radcon Controller	Harold Johnson	8298	
Radcon Controller (lab)	Vicky McClure	—	20466
Radcon Controller	Jim Harris	8298	
Radcon Controller	Dave Beers	8298	
AUO Controller	Don Moffett	8298	
AUO Controller	Wayne Ingle	8298	—
AUO Controller	Sylas Booker	8298	—
Evaluator (Briefing Team)	Steve Krupski	—	40576
Evaluator (Briefing Team)	Bruce O'Brien	—	40634
Evaluator	Rob Beecken	8298	
Evaluator (MERT)	David Pond		39386

To access the pager system at Watts Bar dial 450 or 9-1-800-323-4853. To access the pager system at the CECC dial 1792.At both locations after dialing pager access number wait for tone then enter pager number to be paged, wait for tone, enter telephone number to be displayed or voice message, wait for tone, and then hang up.

The telephone number for the controller's bridge is 2323 wait 3 seconds dial 93.

Introduction

Introduction

The Watts Bar 1993 annual exercise is scheduled to begin with the plume phase of the event at about 9:00 a.m. EDT (normal working hours) on October 6, 1993 and has an estimated duration of 6 hours for the first day. The ingestion portion of the event will begin on the second day at about 8:00 a.m. EDT and has an estimated duration of 8 hours.

Conduct of Exercise

During the ingestion portion of the exercise, the State Emergency Operations Center (SEOC), the Forward Command Center/Field Control Center (FCC) and the TVA Central Emergency Control Center (CECC) will be conducting Event Day 3 activities while the Radiological Monitoring Control Center (RMCC) and the field teams will be conducting Event Day 4 activities. This separation of activitiy was included to allow field team milk sampling during the peak iodine concentration while maintaining the SEOC on real-time response.

10CFR20

The conversion to the new requirements of 10CFR20 before fuel load has lead Watts Bar to have written their procedures to the new 10CFR20 for implementation on January 1, 1994. This leavesWatts Bar without interim procedures based on the old 10CFR20. Therefore, the site will conduct radiological control activities on the new 10CFR20 while the offsite agencies and other TVA facilities conduct radiological activities will use the old 10CFR20 until January 1, 1994.

Post Accident Sampling

No post accident sampling will be performed during the annual exercise. Watts Bar Emergency Preparedness and Chemistry will conduct a Post Accidnet Sampling Facility drill for NRC evaluation at a later date.

Assembly & Accountability

Since the Personnel Radiological Emergency Accountability System (PREAS) will not be completed by the exercise, Watts Bar Emergency Preapredness and Security will conduct a Accountability drill for NRC evaluation at a later date.

Scenario Confidentiality

Emergency Preparedness exercises are conducted prior to the issuance of an initial full power license to a facility and then on an annual basis to comply with the requirements established in 10 CFR 50.47 "Standards for Licenses and Preparedness for Production and Utilization Facilities".

Annual exercises are conducted to allow the NRC assessment of the continual state of onsite emergency preparedness. This assessment is accomplished by TVA's demonstration of its ability to provide protective measures in the event of a radiological emergency and protect the health and safety of the public. This demonstration is accomplished by an evaluation of the Plant staff/Emergency organization's response to a radiological emergency scenario developed by TVA personnel in cooperation with State authorities for offsite participation.

In order to provide for a true assessment of TVA's emergency preparedness, it is imperative that the content of scenarios developed for the annual radiological emergency exercise not be divulged prior to the exercise.

A compromised annual scenario would place the credibility of TVA in jeopardy and could have serious legal implications in the area of compliance with regulatory license requirements. As a result, the content of scenarios developed for annual radiological exercises is to be considered "*CONFIDENTIAL*" and is not to be disclosed to exercise participants or any individual not directly involved with the scenario development process prior to the conduct of the exercise.

Objectives

WATTS BAR NUCLEAR PLANT (WBN)
1993 EMERGENCY PLAN EXERCISE

The 1993 WBN Radiological Emergency Plan Exercise will be a full scale exercise consisting of full participation by TVA and full participation by the State and Local Government emergency agencies.

EXERCISE GOALS

TVA's goals for the 1993 WBN exercise are as follows:

1. Allow plant and offsite personnel to demonstrate and test the capabilities of the emergency response organization to protect the health and safety of plant personnel and the general public in accordance with the Nuclear Power - Radiological Emergency Plan (NP-REP), WBN Emergency Plan Implementing Procedures (EPIPs), and the Central Emergency Control Center (CECC) EPIPs.

2. Provide an interactive exercise to ensure proficiency of onsite and offsite emergency response capabilities.

3 Provide training for emergency response personnel.

4. Identify emergency response capabilities that are in need of improvement or revision.

5. Provide an interative exercise to allow the State responders to demonstrate their proficiency in emergency response capabilities.

EXERCISE OBJECTIVES

A. Control Room/Simulator

1. Demonstrate ability of the Shift Operations Supervisor to recognize conditions, classify emergencies, make required notifications in a timely manner, and assume the initial responsibilities of the Site Emergency director.

2. Demonstrate ability of the Shift Operations Supervisor to maintain effective command and control of control room activities, prevent interference with classification analysis, dispatch and track response teams as needed prior to Technical Support Center activation, and periodically inform the control room staff of the status of the emergency situation.

3. Demonstrate ability of the control room staff to make timely determination of the cause of the incident, perform mitigating actions, keep onsite personnel informed of the emergency situation through periodic PA announcements prior to Technical Support Center activation, and a precise and clear transfer of responsibilities from the Control Room Staff to the Technical Support Center Staff.

4. Demonstrate ability of the control room staff to use proper procedures, maintain an accurate chronological account of events, and defer problems that cannot be quickly resolved to the Technical Support Center for resolution.

5. Demonstrate ability of the control room staff to continuously evaluate information, redefine/confirm conditions and event classifications, establish an effective flow of information between the Control Room, Technical Support Center, Operations Support Center, Central Emergency Control Center, and NRC.

B. Technical Support Center (TSC)

1. Demonstrate ability to perform a precise and clear transfer of responsibilities from the control room staff to the TSC staff and assume the primary responsibilities of the Central Emergency Control Center (CECC) prior to CECC activation.

2. Demonstrate the Site Emergency Director's (SED) ability to provide effective direction, command and control, to manage activities in a manner to prevent interference with classification, analysis, or mitigation of an event and to perform periodic briefings for TSC/OSC staff and personnel.

3. Demonstrate ability of the TSC staff to use proper procedures, solve problems related to incident identification and mitigation, and maintain an accurate account of events through chronological log keeping.

4. Demonstrate the TSC's ability to determine the appropriate sampling and monitoring required to support accident mitigation, perform timely assessments of onsite radiological conditions, and formulate, coordinate, implement, and track on site protective actions.

5. Demonstrate the TSC's ability to maintain effective communication between the Operations Support Center (OSC), Control Room, CECC, NRC, and between various groups within the TSC.

6. Demonstrate ability of the TSC to continuously evaluate available information, redefine/confirm plant conditions and event classifications.

7. Demonstrate the Site Vice President's proficiency serving as a corporate interface for the SED.

8. Demonstrate the maintenance of industry site security operation throughout the exercise.

C. Operations Support Center (OSC)

1. Demonstrate ability of the OSC Manager, through effective command and control, to coordinate and initiate activities in a timely manner, maintain effective communications between various groups within the OSC, and use of proper procedures in the coordination and initiation of activities.

2. Demonstrate ability of the OSC staff to properly plan required tasks, promptly dispatch response teams, track response teams, and maintain communication with the response teams.

3. Demonstrate ability of the OSC response teams to quickly and effectively enter the plant, make necessary repairs or inspections, and perform an adequate de-brief upon returning to the OSC.

4. Demonstrate ability of the OSC staff to maintain accurate status board information, maintain an accurate account of equipment, plant, and response team status through accurate chronological logs, and effective transfer of information between the OSC, TSC, RADCON laboratory, and Chemistry laboratory.

5. Demonstrate ability of the RADCON personnel to use proper procedures and follow good RADCON and ALARA practices to effectively support accident mitigation efforts, ensure adequate worker protection, and perform effective inplant and site boundary surveys during radiological emergencies.

6. Demonstrate ability of the OSC to track changing radiological conditions through survey results and/or inplant monitors, control internal and external exposures and personnel contamination of onsite emergency workers, and incorporate the information into personnel protective actions and exposure tracking.

D. Central Emergency Control Center

1. Demonstrate ability of the Operations Duty Specialist to make initial notifications to State agencies in a timely manner.

2. Demonstrate ability to perform precise and clear transfer of responsibilities from the TSC staff to the CECC staff.

3. Demonstrate ability of the CECC Director to maintain effective command and control within the CECC and establish and maintain effective communication between various groups within the CECC

4. Demonstrate ability of the CECC to perform, update, coordinate offsite activities with the STATE and provide protective action recommendations in a timely manner.

5. Demonstrate ability to effectively transfer radiological survey information from the field, keep the field teams informed of emergency conditions, and adequately monitor and control the exposure levels of offsite personnel.

6. Demonstrate ability of the CECC staff to maintain detailed chronological logs of plant status, ongoing activities, external TVA correspondence, corrective actions taken, protective action recommendations and to continuously evaluate available information and redefine/confirm the conditions and event classifications.

7. Demonstrate ability of the CECC staff to effectively call upon and obtain TVA corporate, vendor, or other outside support resources as appropriate or needed. (technical, logistics, financial, federal, industrial, etc.)

8. Demonstrate ability of the CECC staff to establish and maintain effective communication between the various emergency centers (Control Room, TSC, RMCC, and State EOC) and NRC including NRC responders.

9. Demonstrate ability of the CECC staff to analyze current plant conditions, identify projected trends, determine the potential consequences, and maintain CECC status board information accurate.

10. Demonstrate ability to establish and maintain adequate security access control for the CECC.

11. Demonstrate proficiency of the CECC staff with emergency procedures, equipment, and methods.

E. EXERCISE SPECIFIC

1. Demonstrate ability of the exercise controllers to perform their function without prompting, coaching, or otherwise interfering with the performance of exercise players.

2. Demonstrate that personnel participating in the exercise were not pre-positioned prior to commencement.

3. Conduct of the exercise players demonstrated that they did not have prior knowledge of scenario details or initiation time.

4. The scenario should demonstrate technical accuracy, anticipation of significant player actions, and sufficient difficulty to exercise capabilities of the emergency plan.

5. Demonstrate ability to conduct post exercise critiques.

6. Demonstrate adequacy of control room and emergency centers facilities, resources, equipment, and communication systems to support emergency operations.

7. Demonstrate ability to alert and mobilize personnel for emergency response centers and activate the emergency centers in a timely manner.

8. Demonstrate ability to conduct habitability surveys for the TSC, OSC, control room, and all assembly areas.

9. Demonstrate ability to maintain effective communication between the Technical Support Center, Operations Support Center, Central Emergency Control Center, Control Room / Simulator, and NRC.

10. Demonstrate ability to coordinate plans for termination of the emergency and recovery operation.

F. MEDICAL EMERGENCY RESPONSE TEAM

1. An incident Commander is promptly dispatched to the scene of the emergency where he/she demonstrates ability to establish a command post, setup communication with the main control room, and effectively interact with the Medical Emergency Response Team (MERT) leader.

2. The MERT demonstrates the ability to arrive on the emergency scene in a timely manner, assess medical injuries, identify hazards, and provide medical care.

3. The priority of medical and radiological concerns was properly established and contamination control measures were implemented for personnel and equipment during the treatment, transport, and following transport of contaminated or potentially contaminated injured personnel.

4. Security personnel demonstrate their ability to provide sufficient and effective control at the scene of the emergency.

5. Demonstrate ability to determine means of transportation for injured personnel and provide follow-up notification to receiving hospital upon site departure.

6. The agreement hospital demonstrate their ability to receive the injured person, assess radiological and medical conditions of the victim, and implement proper contamination control measures.

7. Radcon personnel demonstrate their ability to monitor MERT exposures and provided sufficient radiological information to the Incident Commander and / or MERT Leader.

8. The Incident Commander and MERT demonstrate ability to communicate and interact effectively.

G. ENVIRONMENTAL MONITORING

1. Demonstrate the ability of the Environmental Monitoring Teams to effectively utilize their procedures to perform dose rate surveys, collect and analyze radiological samples, and conduct other prescribed radiological activities.

2. Demonstrate the Enviormental Monitoring Team's abilities to adhear to appropriate contamination control procedures in field conditions.

3. Demonstrate the adequacy of the Enviornmental Monitoring Vans to support emergency operations. (monitoring equipment, supplies, communication equipment, etc.)

4. Demonstrate ability to timely and effectively activate and establish communication with environmental monitoring vans.

5. Demonstrate ability of the SITE to timely and effectively transfer control of the environmental monitoring vans.

6. Demonstrate ability to effectively dispatch and control Radiological/Environmental Monitoring Teams, coordinate with the State when applicable, and obtain, analyze, and utilize meteorological, onsite and offsite radiological conditions, and source term information to develop dose assessments in a timely manner.

H. PUBLIC INFORMATION / JOINT INFORMATION CENTER

1. Demonstrate the ability of the CECC Communications staff to coordinate information with non - TVA agencies.

2. Demonstrate the ability of the CECC Communications Staff to develop timely accurate news releases.

3. Demonstrate the ability of the CECC Information Manager to exercise effective command and control of the overall communications response.

4. Demonstrate the ability of the JIC to coordinate public news briefings with State and Federal agencies and provide timely information to the public during periodic JIC briefings.

5. Demonstrate the ability of media relations personnel in the JIC to answer telephone calls from the media professionally and accurately.

6. Demonstrate the ability of TVA's public information staff in the JIC to provide timely and accurate information to anyone calling the public information telephone number.

7. Demonstrate the ability to provide reasonable media access with minimal impact on emergency response activities.

8. Demonstrate the ability to provide information to the public that is accurate, presented at a meaningful technical level, and take corrective actions for inaccuracies.

9. Demonstrate the adequacy of the CECC communication staffs facilities, resources, equipment, and communications system to support emergency operations.

I. FIRE EMERGENCY RESPONSE TEAM

1. An incident Commander is promptly dispatched to the scene of the emergency where he/she demonstrates ability to establish a command post, setup communication with the main control room and effectively interacts with the Fire Brigade Team Leader.

2. Demonstrate ability of the Fire Brigade Team to arrive on the scene in a timely manner, establish response sectors, staging areas, and assess the physical situation.

3. The Fire Brigade Team demonstrates adequate fire fighting skills and appropriate use of fire fighting equipment.

4. The Fire Brigade Leader demonstrates ability to conduct briefings, control the situation, and displays appropriate fire fighting attics.

5. Radcon personnel demonstrate their ability to monitor Fire Brigade Team exposures and provide sufficient radiological information to the Incident Commander and / or Fire Brigade Team Leader.

6. The Incident Commander and Fire Brigade Team Leader demonstrate ability to communicate and interact effectively.

7. Security personnel demonstrate their ability to provide sufficient and effective control at the scene of the fire.

Watts Bar 1993 Annual Exercise
Initial Conditions

Unit 1:

Operating at the end of cycle three at fifty-five percent power and slowly decreasing. Plant is in its one-hundred eighth day of continuous power generation at or near 100% power. The unit is at 380 Effective Full Power Days (EFPD) of a 450 EFPD cycle. The current fuel utilization is 14820 Megawatt Days per metric ton of Uranium (MWD/MTU) out of a total of 17550 MWD/MTU

The plant is shutting down at 2% per minute to refill the Reactor Coolant Pump (RCP) oil reservoir per GOI-5. The RCP has been experiencing above average vibration that has been attributed to low oil in reservoir.

During startup 5-10 fuel pins out of the 50,952 fuel pins in the core were damaged in first 11 days of cycle (about 0.01-0.02%). TVA suspects that this damage was done by a loose part in the primary system left during the last refueling outage. The conclusion of a loose part is based on acoustic monitor information but no additional damage has been indicated for last 97 days.

Reactor Coolant Conditions are:

Boron concentration of 320 parts per million

I-131 equivalent concentration at 2.3E-2 uCi/gm with a gross activity of 2.89 uCi/gm.

Some tramp uranium is present as a residual from previously leaking fuel.

Plant Mangement has directed that the unit be expeditously reduced to 18% to refill the RCP oil reservoir. The TVA Load dispatcher has been notified of the load reduction. Chemistry is sampling the RCS per Tech Spec requirement due to a 15% or greater load change.

Equipment Out-of-Service:

1-BKR-074-0008-A was found to be binding late yesterday during the performance of PM-0-BKR-548-0003-S and could not be exercised. a Work Order was issued for Work Control to troubleshoot and repair.

Unit 2:

Under Construction

Refueling Water Storage Tank (RWST) is empty and unavailable due to sandblasting and repainting of the inside of the tank.

Primary Water Storage Tank (PWST) is empty and unavailable due to sandblasting and painting of the inside of the tank.

Condensate Storage Tank (CST) is empty and unavailable due to sandblasting and painting of the inside of the tank.

Weather:

A front is slipping southward through Tennessee this morning bringing light rain showers and cooler temperatures. Skies will be mostly cloudy today with a chance of lingering showers. A high temperature in the mid 80's is expected. Winds should be light to moderate from a northwest to northeast direction.

Special Notice:

Westinghouse plants have recently had a unusually large quantity of leaking fuel including Watts Bar on the last start-up. Westinghouse Fuel Division is currently evaluating the possible causes and has asked TVA to carefully inspect the fuel at the next refueling outage to assist in this effort.

TVA loaded seventy-six fuel bundles during the last refueling outage that are covered by this notice.

Scenario

Watts Bar 1993 Annual Exercise
Scenario

Day 1: October 6, 1993

The exercise begins with the reactor power being reduced. The exercise begins with a Medical Emergency from a injured RadioChemical Laboratory Analyst (RLA) who fell after collecting a routine Reactor Coolant sample as required by Tech Specs due to the 15% load change. The RLA will be treated at the scene and transported to Athens Hospital for further treatment. As the injuries are not serious, the RLA will be treated and released before the end of Day 1 play.

About twenty minutes into the event, the unit reaches 18% power. The instrument that controls secondary side water flow to the Steam Generator fails full closed resulting in low water level in steam generator #2. The flow transient in loop #2 also shakes loose the resting stray parts and causes loose part damage to one steam generator tube and the associated leakage from the primary system into the steam generator.

Due to the flow transient in the steam generator and/or the low level in the steam generator, the reactor will trip around twenty-two minutes into the sequence. Shortly thereafter the leakage through the one damaged steam generator tube is greater than the capacity of the one centrifugal charging pump normally in service so a second pump is initiated. The starting of the second centrifugal charging pump constitutes an **ALERT** based on Emergency Action Level (EAL) 1.2 item 2 *Non Isolable RCS leak greater than the capacity of one charging pump in the normal charging alignment.*

Around a half-hour into the sequence, Operators declare an ALERT and proceed to follow their Emergency Instructions to stabilize the reactor, isolate the steam line and the feedwater line for the leaking steam generator, and reduce reactor pressure to less than the pressure in faulted steam generator. -These actions proceed normally except that the currently operating 1A-A Centrifugal Charging Pump fails due to a 6.9kV breaker failure at around fifty minutes into the scenario.

One hour and twenty minutes into the activities, a spring that holds the pressure safety relief valve closed breaks and the safety valve on the ruptured steam generator fails full open. The steam from the broken valve is released directly to the outside from the valve vault room. Some of the steam released from the valve vault room is drawn into the nearby Auxiliary Building ventilation intakes causing increased airborne radioactivity and dose rates in the Auxiliary Building. Within about 15 minutes a **SITE AREA EMERGENCY** is declared based on the faulted steam generator releasing directly to the environment (EAL 1.2 item 3 *Steam generator tube rupture that results in a safety injection actuation* and EAL 1.3 item 3 *Containment isolation is incomplete and a release path to the environment exists*).

Around two hours in the event, an unrelated event occurs when the Unit 1 Condensate Storage Tank (CST) level suddenly drops to zero due to a failed level instrument. Fifteen minutes later (T=2:15), operators receive a Seal Water Injection Filter Delta-P High alarm and an Auxiliary Unit Operator should be dispatched to align the alternate filter. This is unrelated to the emergency events, the filter simply reached the end of its normal service life.

Two and one-half hours into the sequence, the TVA fuels division in Chattanooga receives an urgent message from Westinghouse that they have discovered that a manufacturing defect has lead to an unknown extent of damage during the top nozzle assembly processes. The potential result is the total failure and the resultant loose parts and damage to the removable top nozzle disconnect areas. Westinghouse indicates that much of the fuel added in the last outage may be effected (seventy-two potential bundles of the entire core of one-hundred ninety three bundles). Westinghouse is developing inspection methods and acceptance criteria and suggests that all Westinghouse plants carefully inspect the top nozzle assembly during the next refueling outage.

Around two hours and forty minutes, the "A" train of the Emergency Gas Treatment System (EGTS) fails due to a collapsed duct. The loss of this train of EGTS potentially effects the ability to maintain a negative pressure in the annulus. The annulus completely surrounds the containment and separates it from the auxiliary building. The negative pressure in the annulus normally prevents any leakage from containment from reaching the auxiliary building.

Around three hours into the exercise (T=3:00), there is a report of a Nuclear Security vehicle near the Condensate Demineralizer Waste Evaporator Building with fire coming from the engine compartment. Fire Operations responds and extinguishes the fire within about 10 minutes without incident. By three hours and fifteen minutes into the events (T=3:15), fire operations reports that there is no additional threat from the vehicle fire but the vehicle is substantially damaged.

Shortly after three hours in the scenario and again from 3:15 to 3:20 into the scenario, the loose parts again break loose from where they are resting and circulate through the primary system causing additional fuel damage. The loose parts also cause a large number of the fuel assembly top nozzles to come apart releasing more loose parts into the Reactor Coolant System which in turn causes more fuel damage. The Reactor Coolant System acoustic monitor detect the noise of parts circulating through the system and alarms in the control room indicate the loose part activity.

Substantial core damage begins at this time as demonstrated by increases in the main steam line monitors and the containment monitors from the increased activity inside the piping. The fuel, now without the restraint of the top nozzles, are shearing off. About sixty of the seventy-six recently loaded fuel assemblies are damaged in this manner (thirty percent of the entire core). An AUO may be dispatched to verify the loose parts alarms by listening to the audible indicator. Loose parts are again detected about three hours and twenty five minutes and confirmed by the AUO.

Four hours into the sequence, TVA environmental monitoring vans performing site boundary surveys identify an Iodine 131 concentration of 1.5E-6 uCi/cc at the Exclusion Area Boundary in a sample collected twenty minutes earlier and analyzed. The operators should declare a **GENERAL EMERGENCY** due to radiological releases (EAL 7.1 item 2) *Exclusion Area Boundary dose resulting from actual or imminent release of gaseous radioactivity that exceeds 1000 mr Total Body or 5000 mr child thyroid for the actual or projected duration of the release.*

During this time, the State is determining and implementing the offsite actions to protect the health & safety of the public while TVA diligently works to terminate the release and repair the plant systems needed for long term reactor stability. Throughout these events, TVA and the State will continue to share information on progress of their distinct tasks and the status of their activities.

During the later stages of the exercise (around T=6:00), the field personnel identify an area of rain northeast of the plant around eight to twelve miles from the plant but no sampling is conducted at that time due to the dose rates in the plume.

The exercise continues until about T=6:00 when the broken safety is gagged to stop the release or the reactor pressure is reduced to less than one-hundred psi and therefore insufficient pressure exists to push material out of the faulted steam generator. This leaves the containment again intact and all key plant systems stable. TVA will pursue absolute isolation of the damaged pressure relief valve using remotely operated robots to weld the piping closed.

Between T=6:30 and T=8:00, the exercise will terminate once the exercise events have allowed a reasonable opportunity to complete each of the TVA and State objectives for this exercise

BRIEFING PAPER: Morning of Day 2: October 7, 1993

Current Conditions:

Reactor Operators continue to cool the damaged core without incident using the Residual Heat Removal System. Currently, the reactor is at a temperature of 180 °F and a pressure of 200 psi and stable. TVA and Westinghouse core damage experts continue to work on quantifying the exact damage to the core and formulate a plan as to when and how to open the vessel and remove the damaged fuel. No further actions are planned for the next 30 days to allow for decay of the short-lived fission products and the associated reduction in dose rates. During this wait, TVA will be planning which task must be performed and how best to perform these necessary operations with the minimum radiation exposure to the employees.

Radioactive releases from the site are insignificant as all routine gaseous and liquid discharges have been suspended except for building ventilation and there was no major accumulation of radioiodines on the charcoal filters to be releasing their noble gas decay products. Radiation levels inside the Auxiliary Building are steadily decreasing as ventilation slowly dilutes the existing airborne radioactive material as well as the reduction due to settling of particulates. Arrangements have been made for robots to be used to provide permanent repairs to the steam generator safety relief valve.

Numerous onsite radiological surveys are being performed to properly identify and isolate contamination areas and areas with high radiation levels. The site continues to recover damaged or out-of-service equipment on systems that are not effected by the increased radioactive material in the Reactor Coolant or are critical to stable operations (such as redundant cooling capability). The site also began to provide permanent repairs to equipment that had been partially repaired during the exercise in order to have the system available.

1. Centrifugal Charging Pump 1A-A	Replacing damaged Motor Control Center
2. Steam Generator Safety Valve	Fortifying the safety gag by welding a cap over the safety valve piping. This will provide a complete isolation of the safety.

In the afternoon and evening of October 6, TVA and State environmental monitoring teams followed the plume north-eastward from the site toward Oak Ridge and tracked the dispersal of the plume. By 6:30 p.m. on 10/6, the plume had reached Harriman and Kingston. Around 8:00 p.m. the plume was entering Oak Ridge and around 10:00 p.m. was exiting the area. The plume was tracked to approximately 50 miles from the site where the maximum gross concentration was 1.1E-11 uCi/cc. The decision was made to terminate the plume tracking and begin to quantify the dose rates from contamination nearer the site. At around 11:00 p.m. on 10/6, the vans began a general sweep of areas north to east of the plant working their way in from the 50 mile radius.

The injured Radiological Laboaratory Analyst was released from Athens Hospital this morning at 8:00 am after being kept overnight for observation. The hospital reports that the employee should be able to return to work tomorrow.

Briefing Handouts:

1. Hourly map of Plume Position/Travel following termination of exercise
2. Map(s) of environmental monitoring van travels & graphical compilation of dose rate readings for October 6 at 1600 to October 7 at 0800

Expected Actions:

1. The State will determine if any additional persons need to be relocated or if any evacuated persons may return to their homes. The State will also assess Re-entry of persons to care for property and livestock.
2. TVA will continue to assess the core status and develop a plan of action. TVA also provides environmental monitoring support to the State as requested to aid in assessing the offsite conditions.

Notes:

1. Cities are marked in green on the attached maps. Do not let this become confused with the green shading used to identify plume concentration level.

BRIEFING PAPER: Morning of Day 3: October 8, 1993

(Activities actually conducted on October 7, 1993)

Current Conditions:

Reactor Operators continue to cool the damaged core without incident using the Residual Heat Removal System. The reactor is at a temperature of 160 °F and a pressure of 200 psi and stable. Radioactive releases from the site continue to be insignificant as all routine gaseous and liquid discharges have been suspended except for building ventilation. Radiation levels inside the Auxiliary Building are still steadily decreasing as ventilation continues to dilute the existing airborne radioactive material as well as the reduction due to settling of particulates. Robots have been used to provide permanent isolation of the steam generator safety relief valve by welding a cap onto the end of the relief piping thereby guaranteeing no possible release via this valve.

Numerous additional onsite radiological surveys are being performed to properly identify and isolate contamination areas and areas with high radiation levels. Decontamination of the minimally contaminated areas has begun and should continue for the next 10 to 20 days. The site has recovered all the damaged or out-of-service equipment on systems that are critical to stable operations (such as redundant cooling capability).

1. Centrifugal Charging Pump 1A-A Repaired
2. Steam Generator Safety Valve Isolated

To further quantify the levels of offsite deposition, environmental monitoring field teams continued to monitor dose rates both at previously monitored locations and additional points added based on the monitoring conducted on day 2. During day 2, all four teams collected dose rate readings at all assigned locations. Teams collected some soil and vegetation samples at points determined by the Field Coordinators for TVA and the State. The remainder of the soil and vegetation sampling will be conducted on Day 3.

Briefing Handouts:

1. Map(s) of environmental monitoring van travels & graphical compilation of dose rate readings for October 7 at 0800 to October 8 at 0800
2. Isotopic analysis results for samples collected on Day 2.

Expected Actions:

1. The State will continue to clarify which areas are sufficiently clean to allow the population to return to their homes. Isotopic analysis of the samples collected on Day 2 will be performed and the compiled results (1, 2 and 50 year cumulative doses) will be available for Day 2 sampling locations. Using this information, the State will determine appropriate actions based on FEMA/EPA guidance. The State will also determine what additional isotopic sampling is needed to make the necessary decisions.
2. TVA will continue to assess the core status and determine a plan of action. TVA also provides environmental monitoring vans as needed to assist the State in assessing offsite conditions.

BRIEFING PAPER: Morning of Day 4: October 9, 1993

(Activities actually conducted on October 7, 1993)

Current Conditions:

Reactor Operators continue to cool the damaged core without incident using the Residual Heat Removal System. The reactor is at a temperature of 145 ºF and a pressure of 200 psi and stable. TVA and Westinghouse core damage experts continue to work on quantifying the exact damage to the core and formulate a plan as to when and how to open the vessel and remove the damaged core. No further actions are planned for the next 30 days to allow for decay of the short-lived fission products and the associated reduction in dose rates. During this wait, TVA will be planning which task must be performed and how best to perform these necessary operations with the minimum radiation exposure to the employees.

Numerous onsite radiological surveys are being performed to properly identify and isolate contamination areas and areas with high radiation levels.

Field teams will be sampling dairies as milk concentrations peak on day 4 following an iodine release.

Briefing Handouts:

1. Map(s) of environmental monitoring van travels & graphical compilation of dose rate readings for October 8 at 0800 to October 9 at 0800
2. Isotopic analysis results for samples collected on Day 3.

Expected Actions:

1. Environmental monitoring teams will be sampling dairies as milk concentrations peak on Day 4 following the iodine release. Additionally, on van will be requested to re-sample monitoring point 7-4, due to an abnormally low reading on Day 3. The isotopic data collected on Day 3 is suspect as the dose rate taken concurretn with the sample is only 10% of other nearby points and 10% of readings taken at the same point on Day 2.
2. The State will continue to clarify which areas are sufficiently clean to allow the population to return to their homes. Isotopic analysis of the samples collected on Day 3 will be performed and the compiled results (1, 2 and 50 year cumulative doses) will be available for Day 3 sampling locations. Using this information, the State will determine appropriate actions based on FEMA/EPA guidance. The State will also determine what additional isotopic sampling is needed to make the necessary decisions.
3. TVA will continue to assess the core status and determine a plan of action. TVA also provides environmental monitoring vans as needed to assist the State in assessing offsite conditions.

Messages

Watts Bar Nuclear Plant 1993 Graded Exercise
Exercise Messages

To: **All Players**

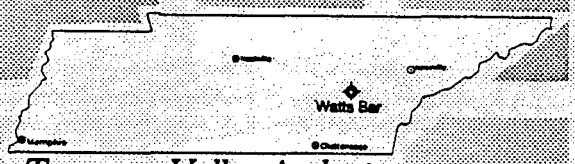
From: **Controllers**

Location: **All** **Time: Initial Conditions**

The following Initial Conditions exist at October 6, 1993 as of 0600.
Controllers are available to discuss your questions.

Watts Bar Nuclear Plant
1993 Graded Exercise

Exercise Participant's Initial Conditions Package



Tennessee Valley Authority
Emergency Preparedness

Week of October 4, 1993

Watts Bar 1993 Annual Exercise
Initial Conditions

Unit 1:

Operating at the end of cycle three at fifty-five percent power and slowly decreasing. Plant is in its one-hundred eighth day of continuous power generation at or near 100% power. The unit is at 380 Effective Full Power Days (EFPD) of a 450 EFPD cycle. The current fuel utilization is 14820 Megawatt Days per metric ton of Uranium (MWD/MTU) out of a total of 17550 MWD/MTU

The plant is shutting down at 2% per minute to refill the Reactor Coolant Pump (RCP) oil reservoir per GOI-5. The RCP has been experiencing above average vibration that has been attributed to low oil in reservoir.

During startup 5-10 fuel pins out of the 50,952 fuel pins in the core were damaged in first 11 days of cycle (about 0.01-0.02%). TVA suspects that this damage was done by a loose part in the primary system left during the last refueling outage. The conclusion of a loose part is based on acoustic monitor information but no additional damage has been indicated for last 97 days.

Reactor Coolant Conditions are:

Boron concentration of 320 parts per million

I-131 equivalent concentration at 2.3E-2 uCi/gm with a gross activity of 2.89 uCi/gm.

Some tramp uranium is present as a residual from previously leaking fuel.

Plant Mangement has directed that the unit be expeditously reduced to 18% to refill the RCP oil reservoir. The TVA Load dispatcher has been notified of the load reduction. Chemistry is sampling the RCS per Tech Spec requirement due to a 15% or greater load change.

Equipment Out-of-Service:

1-BKR-074-0008-A was found to be binding late yesterday during the performance of PM-0-BKR-548-0003-S and could not be exercised. a Work Order was issued for Work Control to troubleshoot and repair.

Unit 2:

Under Construction

Refueling Water Storage Tank (RWST) is empty and unavailable due to sandblasting and repainting of the inside of the tank.

Primary Water Storage Tank (PWST) is empty and unavailable due to sandblasting and painting of the inside of the tank.

Condensate Storage Tank (CST) is empty and unavailable due to sandblasting and painting of the inside of the tank.

Weather:

A front is slipping southward through Tennessee this morning bringing light rain showers and cooler temperatures. Skies will be mostly cloudy today with a chance of lingering showers. A high temperature in the mid 80's is expected. Winds should be light to moderate from a northwest to northeast direction.

Special Notice:

Westinghouse plants have recently had a unusually large quantity of leaking fuel including Watts Bar on the last start-up. Westinghouse Fuel Division is currently evaluating the possible causes and has asked TVA to carefully inspect the fuel at the next refueling outage to assist in this effort.

TVA loaded seventy-six fuel bundles during the last refueling outage that are covered by this notice.

General Notes:

Locations in the actual operating areas of the plant will be used for training purposes in certain events. Please be aware of the operating areas that are sensitive to radio communications and other effects that may effect the units.

Mock-ups will be utilized for certain events associated with the exercise. Controllers will manage events associated with the mock-ups to ensure that team members are made aware of the locations and conditions of the mock-ups.

ERFDS will be simulated from the simulator in three locations (CECC, TSC, and OSC). ERFDS will be limited in its ability to perform as it currently exists be we area capable of producing plant parameters necessary for the exercise.

The training simulator will be utilized during the exercise to simulate the Unit 1 Control Room. For this reason, communications will be conducted as follows:

Unit 1 SOS	1413	RADCON Lab	8343
Unit 1 ASOS	1059	AUOs for the exercise	8688
Unit 1 Unit Operator	1167	Chem Lab	8330
Unit 1 BOP	1087		

Simulation and Personnel Safety

No action will actually be taken that may alter the operation of the site. Valves, pumps, switches, and other equipment will be physically located but verbal descriptions will be given instead of actual operations which may impact site operation. Actions which **WILL NOT** impact the site operations, like protective clothing and supplies, will be performed unless otherwise instructed by the controllers.

Personnel **WILL NOT** enter High Radiation or Contamination Areas

Full actions are expected and allowed on mock-ups.

Simulation Specifics:

1. **Accountability**	Assemble - Simulate Site Evacuation - Simulate
2. **Security**	Roadblocks - Simulate
3. **Environmental Monitoring**	Environs Vans - Full Participation Screening Van - Full Participation Courier - Full Participation
4. **NRC Notification (Red Phone)**	Make first call to inform NRC of the exercise Ask NRC if further follow-up is desired All other contacts are based on NRC wishes Notify NRC of termination of the exercise
5. **Post-Accident Sampling**	PASF - Simulate sampling but perform prepatory steps
6. **Offsite Support**	Non-TVA Offsite Support - Simulate TVA Offsite Support - Contact but **DO NOT** actually activate

1993 WATTS BAR GRADED EXERCISE
CONTROLLERS AND EVALUATORS

EXERCISE COORDINATOR		PHONE	PAGER
	Clyde T. Benton	1221	30644
CENTRAL EMERGENCY CONTROL CENTER			
Lead Controller	Tom Adkins	1641,1655	30398
Rad Assessment Controller	Randy Ford/J.J. Johnson	1641,1655	30414
Plant Assessment Controller	Mike Lorek	1641,1655	___
Plant Assessment Controller (Fuels)	Andrew Sanislo	___	___
RMCC Controller	David Pond/David Sorrelle	___	___
Van Controller	Wayne Parks	See CECC	60294
Van Controller	Tom Shirley	EPIP-9	___
Van Controller	Bill Kennedy		
Public Information Controller	Jim Dodson		30041
State Controller (Nashville)	Ed Webb	(615)741-0225	
Evaluator	Tim Cornelius	1641	99792
Evaluator	Nick Catron	1641	39379
CONTROL ROOM/SIMULATOR			
Lead Controller	Mark Luksic	1338	
Simulator Operator	Katie Lovell	3718	___
Simulator Controller	Jimmy Johnson	1338	___
Control Room Liaison	Dave Kulisek	8401	90057
Evaluator	Andy Anderson	1338	60296
TECHNICAL SUPPORT CENTER			
Lead Controller	Kenneth King	8619	39407
Radcon Controller	John Politte	8619	60298
Chemistry Controller	Vernon Shanks	8626	___
Operations Controller	Newton Lacy	8619	___
Technical Assessment Controller	Rory Warren	8626	70325
Evaluator	Dennis Koehl	8619	30520
OPERATIONS SUPPORT CENTER			
Lead Controller	Bill Peggram	8289	30388
Mechanical Controller (Lead)	Dennis Collins	8298	40514
Mechanical Controller	King Turnbull	8298	20425
Mechanical Controller	Lee Haack	8298	20414
Electrical Controller	Ed Massey	8298	20424
I&C Controller	Charles Brush	8298	20417
Chemistry Controller (lab)	Phil Prichard	8339	70347
Nuclear Security Controller	Brad Hamblin	8289	
Fire Protection Controller	B.J. Williams	___	39163
Fire Protection Controller	A.J. Salatka	8298	___
MERT Controller	Wayne Dedmon	8298	
Radcon Controller (Lead)	Henry Champagne	8298	60293
Radcon Controller	Don Hall	8298	60300
Radcon Controller	Chuck Tocco	8298	60291
Radcon Controller	Lee Thomas	8298	20451
Radcon Controller	Bill Gillen	8298	60303
Radcon Controller	Harold Johnson	8298	
Radcon Controller (lab)	Vicky McClure	___	20466
Radcon Controller	Jim Harris	8298	
Radcon Controller	Dave Beers	8298	
AUO Controller	Don Moffett	8298	
AUO Controller	Wayne Ingle	8298	___
AUO Controller	Sylas Booker	8298	___
Evaluator (Briefing Team)	Steve Krupski	___	40576
Evaluator (Briefing Team)	Bruce O'Brien	___	40634
Evaluator	Rob Beecken	8298	
Evaluator (MERT)	David Pond		39386

To access the pager system at Watts Bar dial 450 or 9-1-800-323-4853. To access the pager system at the CECC dial 1792.At both locations after dialing pager access number wait for tone then enter pager number to be paged, wait for tone, enter telephone number to be displayed or voice message, wait for tone, and then hang up.

Instructions and Rules for Plant Players

A. Time

Even though controllers may refer to "Elapsed" or "Scenario" time, all players are to use only clock time (local time) in actions, logs, etc.

B. Conduct of an Exercise

There are five categories of persons during an exercise...

1. **Controller** -- runs the exercise, evaluates when won't interfere with conducting the exercise
   Controllers conduct an exercise by providing information to players. A controller must accompany players on any task given. If a controller is not standing by, players should locate the lead controller for the area and notify him or her of their need for a controller.
2. **Evaluator** -- evaluates the actions of the controllers and players
   May not interact, assist, or interfere with actions of players.
3. **Visitor** (or Observer) -- observes for own information, performs no evaluations
   May not interact, assist, or interfere with actions of players
4. **Player** -- any person who participates in the exercise and actions are being graded
   Must ensure a controller is available before performing tasks for proper exercise conduct.
5. **Drill Exempt** -- excluded from the exercise to perform routine duties
   May not interact, assist, or interfere with actions of players. Does not have to react to drill events.

Demonstrate your knowledge of the emergency plan, emergency operations and procedures. Utilize status boards, log books, etc. as much as possible to document and record your actions, instructions, and reports to your co-workers. The controllers use these logs to credit you with actions and failure to maintain good logs may result in not being credited with actions you did perform.

C. Simulation

Play out all actions as much as possible as if this were a real emergency. Unless authorized by a controller, you *SHOULD NOT* simulate actions. It is to our advantage to perform as many of our actual tasks under simulated accident conditions to identify problems and improve our actions. Plant and personnel safety, however, always take precedent over exercise activities.

If authorized to simulate an action, tell the controller how and when you would actually perform each step. Clearly identify all actions you would perform so that the controller may credit you with prior actions. Remember, you are entering plant areas with actual day-to-day restrictions. A drill or exercise *DOES NOT* suspend plant procedures. ***NO ONE***, not even controllers or evaluators, are exempt from normal station radiological, safety, or operating procedures. Report any hazardous conditions or situations immediately to the controller.

You must play as if the simulated radiological conditions provided by the controllers were real. You will be required to wear the appropriate protective equipment and follow proper practices including ALARA practices. Since controllers would not actually exist in a real emergency, controllers will not be wearing equivalent radiological protective clothing. Do not allow this to confuse you or make you act unwisely.

IN ALL CASES: Do not enter high radiation areas, contamination areas, or airborne contamination areas in the plant. The benefit of experience *DOES NOT* justify the additional dose and potential for contamination.

D. Communications

Speak out, identifying your key actions and decisions to the controllers and evaluators. This may seem artificial, but it will assist in the conduct of the exercise and in your performance.

If you are ever in doubt about a message, ask the controller for clarification. Controllers will always repeat or clarify a message. The controller will not, however, prompt or coach you, but will tell you only what you would perceive with you own senses.

If a controller intervenes with your actions, it is for a good reason. Obey the controller's directions at all times. The controller will also periodically issue messages or instructions designed to initiate, clarify, or terminate an activity. You *MUST* accept these messages immediately and respond accordingly as they are essential for you successful performance.

If a situation arises where you disagree with the information that a controller provides, you may ask to have the information verified by the lead controller for that area. Once verified, however, you must act on the information without further delay. We cannot allow a technical disagreement to derail the exercise so, please continue with the information you have and the issue will be addressed after the exercise.

E. Post-Exercise Critique

At the end of the exercise, the players will be expected to evaluate their own performance. This is a very important activity as it demonstrates our ability to be self-critical and our desire to improve our own programs without the need for outside organizations. The intent of these critiques, both the players and controllers, is to improve TVA's response to an actual emergency.

Keep a list of items you feel will improve the emergency plan and procedures. Provide this during the post-exercise critique and give your notes to your lead controller after the player critique and he or she will ensure that they are considered.

WATTS BAR NUCLEAR PLANT (WBN)
1993 EMERGENCY PLAN EXERCISE

The 1993 WBN Radiological Emergency Plan Exercise will be a full scale exercise consisting of full participation by TVA and full participation by the State and Local Government emergency agencies.

EXERCISE GOALS

TVA's goals for the 1993 WBN exercise are as follows:

1. Allow plant and offsite personnel to demonstrate and test the capabilities of the emergency response organization to protect the health and safety of plant personnel and the general public in accordance with the Nuclear Power - Radiological Emergency Plan (NP-REP), WBN Emergency Plan Implementing Procedures (EPIPs), and the Central Emergency Control Center (CECC) EPIPs.

2. Provide an interactive exercise to ensure proficiency of onsite and offsite emergency response capabilities.

3 Provide training for emergency response personnel.

4. Identify emergency response capabilities that are in need of improvement or revision.

5. Provide an interative exercise to allow the State responders to demonstrate their proficiency in emergency response capabilities.

EXERCISE OBJECTIVES

A. Control Room/Simulator

1. Demonstrate ability of the Shift Operations Supervisor to recognize conditions, classify emergencies, make required notifications in a timely manner, and assume the initial responsibilities of the Site Emergency director.

2. Demonstrate ability of the Shift Operations Supervisor to maintain effective command and control of control room activities, prevent interference with classification analysis, dispatch and track response teams as needed prior to Technical Support Center activation, and periodically inform the control room staff of the status of the emergency situation.

3. Demonstrate ability of the control room staff to make timely determination of the cause of the incident, perform mitigating actions, keep onsite personnel informed of the emergency situation through periodic PA announcements prior to Technical Support Center activation, and a precise and clear transfer of responsibilities from the Control Room Staff to the Technical Support Center Staff.

4. Demonstrate ability of the control room staff to use proper procedures, maintain an accurate chronological account of events, and defer problems that cannot be quickly resolved to the Technical Support Center for resolution.

5. Demonstrate ability of the control room staff to continuously evaluate information, redefine/confirm conditions and event classifications, establish an effective flow of information between the Control Room, Technical Support Center, Operations Support Center, Central Emergency Control Center, and NRC.

B. Technical Support Center (TSC)

1. Demonstrate ability to perform a precise and clear transfer of responsibilities from the control room staff to the TSC staff and assume the primary responsibilities of the Central Emergency Control Center (CECC) prior to CECC activation.

2. Demonstrate the Site Emergency Director's (SED) ability to provide effective direction, command and control, to manage activities in a manner to prevent interference with classification, analysis, or mitigation of an event and to perform periodic briefings for TSC/OSC staff and personnel.

3. Demonstrate ability of the TSC staff to use proper procedures, solve problems related to incident identification and mitigation, and maintain an accurate account of events through chronological log keeping.

4. Demonstrate the TSC's ability to determine the appropriate sampling and monitoring required to support accident mitigation, perform timely assessments of onsite radiological conditions, and formulate, coordinate, implement, and track on site protective actions.

5. Demonstrate the TSC's ability to maintain effective communication between the Operations Support Center (OSC), Control Room, CECC, NRC, and between various groups within the TSC.

6. Demonstrate ability of the TSC to continuously evaluate available information, redefine/confirm plant conditions and event classifications.

7. Demonstrate the Site Vice President's proficiency serving as a corporate interface for the SED.

8. Demonstrate the maintenance of industry site security operation throughout the exercise.

C. Operations Support Center (OSC)

1. Demonstrate ability of the OSC Manager, through effective command and control, to coordinate and initiate activities in a timely manner, maintain effective communications between various groups within the OSC, and use of proper procedures in the coordination and initiation of activities.

2. Demonstrate ability of the OSC staff to properly plan required tasks, promptly dispatch response teams, track response teams, and maintain communication with the response teams.

3. Demonstrate ability of the OSC response teams to quickly and effectively enter the plant, make necessary repairs or inspections, and perform an adequate de-brief upon returning to the OSC.

4. Demonstrate ability of the OSC staff to maintain accurate status board information, maintain an accurate account of equipment, plant, and response team status through accurate chronological logs, and effective transfer of information between the OSC, TSC, RADCON laboratory, and Chemistry laboratory.

5. Demonstrate ability of the RADCON personnel to use proper procedures and follow good RADCON and ALARA practices to effectively support accident mitigation efforts, ensure adequate worker protection, and perform effective inplant and site boundary surveys during radiological emergencies.

6. Demonstrate ability of the OSC to track changing radiological conditions through survey results and/or inplant monitors, control internal and external exposures and personnel contamination of onsite emergency workers, and incorporate the information into personnel protective actions and exposure tracking.

D. Central Emergency Control Center

1. Demonstrate ability of the Operations Duty Specialist to make initial notifications to State agencies in a timely manner.

2. Demonstrate ability to perform precise and clear transfer of responsibilities from the TSC staff to the CECC staff.

3. Demonstrate ability of the CECC Director to maintain effective command and control within the CECC and establish and maintain effective communication between various groups within the CECC

4. Demonstrate ability of the CECC to perform, update, coordinate offsite activities with the STATE and provide protective action recommendations in a timely manner.

5. Demonstrate ability to effectively transfer radiological survey information from the field, keep the field teams informed of emergency conditions, and adequately monitor and control the exposure levels of offsite personnel.

6. Demonstrate ability of the CECC staff to maintain detailed chronological logs of plant status, ongoing activities, external TVA correspondence, corrective actions taken, protective action recommendations and to continuously evaluate available information and redefine/confirm the conditions and event classifications.

7. Demonstrate ability of the CECC staff to effectively call upon and obtain TVA corporate, vendor, or other outside support resources as appropriate or needed. (technical, logistics, financial, federal, industrial, etc.)

8. Demonstrate ability of the CECC staff to establish and maintain effective communication between the various emergency centers (Control Room, TSC, RMCC, and State EOC) and NRC including NRC responders.

9. Demonstrate ability of the CECC staff to analyze current plant conditions, identify projected trends, determine the potential consequences, and maintain CECC status board information accurate.

10. Demonstrate ability to establish and maintain adequate security access control for the CECC.

11. Demonstrate proficiency of the CECC staff with emergency procedures, equipment, and methods.

E. EXERCISE SPECIFIC

1. Demonstrate ability of the exercise controllers to perform their function without prompting, coaching, or otherwise interfering with the performance of exercise players.

2. Demonstrate that personnel participating in the exercise were not pre-positioned prior to commencement.

3. Conduct of the exercise players demonstrated that they did not have prior knowledge of scenario details or initiation time.

4. The scenario should demonstrate technical accuracy, anticipation of significant player actions, and sufficient difficulty to exercise capabilities of the emergency plan.

5. Demonstrate ability to conduct post exercise critiques.

6. Demonstrate adequacy of control room and emergency centers facilities, resources, equipment, and communication systems to support emergency operations.

7. Demonstrate ability to alert and mobilize personnel for emergency response centers and activate the emergency centers in a timely manner.

8. Demonstrate ability to conduct habitability surveys for the TSC, OSC, control room, and all assembly areas.

9. Demonstrate ability to maintain effective communication between the Technical Support Center, Operations Support Center, Central Emergency Control Center, Control Room / Simulator, and NRC.

10. Demonstrate ability to coordinate plans for termination of the emergency and recovery operation.

F. MEDICAL EMERGENCY RESPONSE TEAM

1. An incident Commander is promptly dispatched to the scene of the emergency where he/she demonstrates ability to establish a command post, setup communication with the main control room, and effectively interact with the Medical Emergency Response Team (MERT) leader.

2. The MERT demonstrates the ability to arrive on the emergency scene in a timely manner, assess medical injuries, identify hazards, and provide medical care.

3. The priority of medical and radiological concerns was properly established and contamination control measures were implemented for personnel and equipment during the treatment, transport, and following transport of contaminated or potentially contaminated injured personnel.

4. Security personnel demonstrate their ability to provide sufficient and effective control at the scene of the emergency.

5. Demonstrate ability to determine means of transportation for injured personnel and provide follow-up notification to receiving hospital upon site departure.

6. The agreement hospital demonstrate their ability to receive the injured person, assess radiological and medical conditions of the victim, and implement proper contamination control measures.

7. Radcon personnel demonstrate their ability to monitor MERT exposures and provided sufficient radiological information to the Incident Commander and / or MERT Leader.

8. The Incident Commander and MERT demonstrate ability to communicate and interact effectively.

G. ENVIRONMENTAL MONITORING

1. Demonstrate the ability of the Environmental Monitoring Teams to effectively utilize their procedures to perform dose rate surveys, collect and analyze radiological samples, and conduct other prescribed radiological activities.

2. Demonstrate the Enviormental Monitoring Team's abilities to adhear to appropriate contamination control procedures in field conditions.

3. Demonstrate the adequacy of the Enviornmental Monitoring Vans to support emergency operations. (monitoring equipment, supplies, communication equipment, etc.)

4. Demonstrate ability to timely and effectively activate and establish communication with environmental monitoring vans.

5. Demonstrate ability of the SITE to timely and effectively transfer control of the environmental monitoring vans.

6. Demonstrate ability to effectively dispatch and control Radiological/Environmental Monitoring Teams, coordinate with the State when applicable, and obtain, analyze, and utilize meteorological, onsite and offsite radiological conditions, and source term information to develop dose assessments in a timely manner.

H. PUBLIC INFORMATION / JOINT INFORMATION CENTER

1. Demonstrate the ability of the CECC Communications staff to coordinate information with non - TVA agencies.

2. Demonstrate the ability of the CECC Communications Staff to develop timely accurate news releases.

3. Demonstrate the ability of the CECC Information Manager to exercise effective command and control of the overall communications response.

4. Demonstrate the ability of the JIC to coordinate public news briefings with State and Federal agencies and provide timely information to the public during periodic JIC briefings.

5. Demonstrate the ability of media relations personnel in the JIC to answer telephone calls from the media professionally and accurately.

6. Demonstrate the ability of TVA's public information staff in the JIC to provide timely and accurate information to anyone calling the public information telephone number.

7. Demonstrate the ability to provide reasonable media access with minimal impact on emergency response activities.

8. Demonstrate the ability to provide information to the public that is accurate, presented at a meaningful technical level, and take corrective actions for inaccuracies.

9. Demonstrate the adequacy of the CECC communication staffs facilities, resources, equipment, and communications system to support emergency operations.

I. FIRE EMERGENCY RESPONSE TEAM

1. An incident Commander is promptly dispatched to the scene of the emergency where he/she demonstrates ability to establish a command post, setup communication with the main control room and effectively interacts with the Fire Brigade Team Leader.

2. Demonstrate ability of the Fire Brigade Team to arrive on the scene in a timely manner, establish response sectors, staging areas, and assess the physical situation.

3. The Fire Brigade Team demonstrates adequate fire fighting skills and appropriate use of fire fighting equipment.

4. The Fire Brigade Leader demonstrates ability to conduct briefings, control the situation, and displays appropriate fire fighting attics.

5. Radcon personnel demonstrate their ability to monitor Fire Brigade Team exposures and provide sufficient radiological information to the Incident Commander and / or Fire Brigade Team Leader.

6. The Incident Commander and Fire Brigade Team Leader demonstrate ability to communicate and interact effectively.

7. Security personnel demonstrate their ability to provide sufficient and effective control at the scene of the fire.

To: **Chem Lab Supervisor**

From: **Chem Lab Controller**

Location: **Chem Lab** **Time: T=0:05**

A RLA was dispatched over an hour ago to take an RCS sample due to a planned 15% load reduction. You have not heard from her since she left. You decide to send someone to the Hot Sampel Room to see what is taking so long.

Watts Bar Nuclear Plant 1993 Graded Exercise
Exercise Messages

To: **Site Emergency Director**

From: **Control Room Lead Controller**

Location: **Control Room** **Time:** 0:55

If the **ALERT** has not been declared and declaration is **NOT IMMINENT**, then
ISSUE the Following Message:

Based on EAL 1.2 Item 2 -
Non Isolable RCS leak greater than the capacity of one CCP in the normal charging alignment,

You have decided to declare an ALERT...

To: **Site Emergency Director**

From: **TSC Lead Controller**

Location: **TSC**

Time: Upon Declaration of **ALERT**

The Emergency Reponse Pagers will actually be sounded... call the on-shift SOS clerk to perform an actual activation of pagers for a WBN Drill.

Watts Bar Nuclear Plant 1993 Graded Exercise
Exercise Messages

To: **Site Emergency Director**

From: **TSC Lead Controller**

Location: TSC **Time: T=1:40**

If the **SITE AREA EMERGENCY** has not been declared and declaration is **NOT IMMINENT,**
THEN
ISSUE the Following Message:

Based on EAL 1.2.3
Steam generator tube rupture that results in a safety injection
and EAL 1.3.3,
Containment isolation is incomplete and a release path to the environment exists

You have decided to declare a SITE AREA EMERGENCY...

To: **CECC Nuclear Fuels**
TSC Westinghouse

From: **CECC/TSC Lead Controller**

Location: CECC/TSC **Time: 2:30**

URGENT Technical Bulletin from Westinghouse

Issued: October 6, 1993 9:00 a.m.

To: ALL Westinghouse Fuel Users

Westinghouse Fuels Division has discovered that a supplier manufacturing defect has lead to an unknown extent of damage to the top nozzle assembly processes. It is unknown at this time how long this has been occurring and how many customers are potentially effected but, due to shipment dates, Westinghouse believes that this damage did not begin until after October 1, 1992.

The potential result is complete failure of the holddown spring integrity with resultant loose parts and damage to the removeable top nozzle disconnnect areas. The worst case expectations are that the top nozzles could collapse onto the fuel during a flow transient. If this were to occur, the fuel end plugs could be sheared off. Westing house is developing top nozzle inspection methods and acceptance criteria. Westinghouse further suggest that all plants plan to inspect their top nozzles during the next shutdown period.

TVA Impact:
Westinghouse believes that as much as 85% of Watts Bars "Region E" fuel may have been damaged. Sequoyah is believed to be uneffected since no recently purchased fuel has been loaded into the core at this time. Recently purchased fuel on hand should not be loaded until the inspection methods and criteria are developed and recently purchased fuel is carefully inspected.

To: **Site Emergency Director**

From: **TSC Lead Controller**

Location: TSC

Time: 15 min after receipt of offsite dose readings

If the *GENERAL EMERGENCY* has not been declared and declaration is **NOT IMMINENT, THEN**
ISSUE the Following Message:

Based on EAL 7.1
Exclusion area boundary dose resulting from actual or imminent release of gaseous radioactivity that exceeds 1000 mr Total Body or 5000 mr child thyroid for the actual or projected duration of the release

You have decided to declare a GENERAL EMERGENCY...

To: **Van Teams**

From: **Van Controllers**

Location: **ALL Vans**

Time: T=6:00 or at Termination of Exercise

You identify what may be light rain north of the plant somewhere between 8 to 12 miles from the plant. The Rain is predominatly along the west bank of the river.

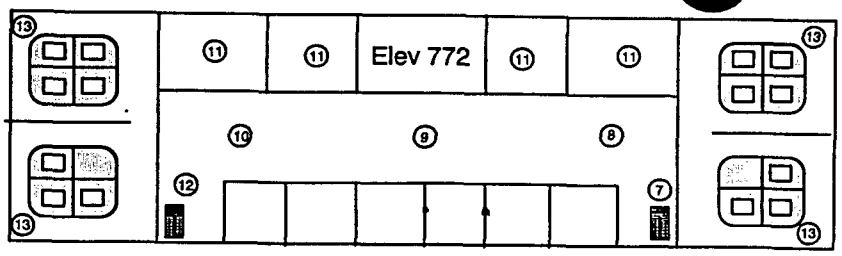
Plant Parameters

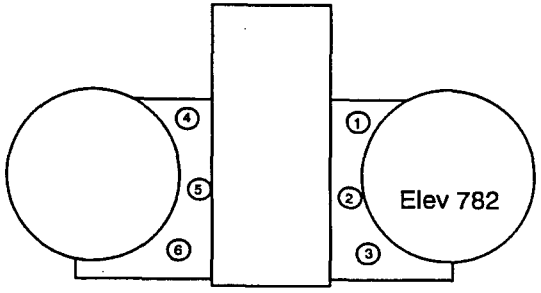
In Plant Rad Data

N782 [illegible]-1993 15:07:28 wbn93ge

Watts Bar Nuclear Plant

EP Map Points:1, 2, 3, 4, 5, 6 Data Location: Aux Bldg Locations					EP Map Points:7, 8, 9, 10, 11, 12, 13 Data Location: Board Rooms					EP Map Points: Data Location: Not Used			
SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER	
Time	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
00:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
01:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
01:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
01:55	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:00	<100	<2.0	<100	<2.0	<0.05	130	<2.0	OffHigh	8.4	<0.05	130	<2.0	OffHigh	8.4
02:05	<100	<2.0	<100	<2.0	<0.05	250	<2.0	OffHigh	9.1	<0.05	250	<2.0	OffHigh	9.1
02:10	<100	<2.0	<100	<2.0	<0.05	370	<2.0	OffHigh	9.7	<0.05	370	<2.0	OffHigh	9.7
02:15	<100	<2.0	<100	<2.0	<0.05	470	<2.0	OffHigh	10	<0.05	470	<2.0	OffHigh	10
02:20	<100	<2.0	280	<2.0	<0.05	570	<2.0	OffHigh	10	<0.05	570	<2.0	OffHigh	10
02:25	<100	<2.0	560	<2.0	<0.05	650	<2.0	OffHigh	11	<0.05	650	<2.0	OffHigh	11
02:30	<100	<2.0	930	<2.0	<0.05	730	<2.0	OffHigh	11	<0.05	730	<2.0	OffHigh	11
02:35	<100	<2.0	1300	<2.0	<0.05	810	<2.0	OffHigh	12	<0.05	810	<2.0	OffHigh	12
02:40	<100	<2.0	1900	<2.0	<0.05	880	<2.0	OffHigh	12	<0.05	880	<2.0	OffHigh	12
02:45	<100	<2.0	2500	<2.0	<0.05	950	<2.0	OffHigh	13	<0.05	950	<2.0	OffHigh	13
02:50	<100	<2.0	3200	<2.0	<0.05	1000	<2.0	OffHigh	13	<0.05	1000	<2.0	OffHigh	13
02:55	<100	<2.0	4000	<2.0	<0.05	1000	<2.0	OffHigh	13	<0.05	1000	<2.0	OffHigh	13
03:00	<100	<2.0	4900	<2.0	<0.05	1100	<2.0	OffHigh	14	<0.05	1100	<2.0	OffHigh	14
03:05	<100	<2.0	5900	<2.0	<0.05	1100	<2.0	OffHigh	14	<0.05	1100	<2.0	OffHigh	14
03:10	<100	<2.0	6800	<2.0	<0.05	1200	<2.0	OffHigh	14	<0.05	1200	<2.0	OffHigh	14
03:15	<100	<2.0	7900	<2.0	<0.05	1200	<2.0	OffHigh	15	<0.05	1200	<2.0	OffHigh	15
03:20	<100	<2.0	8900	<2.0	<0.05	1300	<2.0	OffHigh	15	<0.05	1300	<2.0	OffHigh	15
03:25	<100	<2.0	10000	<2.0	<0.05	1800	<2.0	OffHigh	33	0.15	1800	<2.0	OffHigh	33
03:30	<100	<2.0	12000	<2.0	<0.05	3600	<2.0	OffHigh	90	0.40	3600	<2.0	OffHigh	90
03:35	<100	<2.0	17000	<2.0	<0.05	7700	<2.0	OffHigh	210	0.84	7700	<2.0	OffHigh	210





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Watts Bar Nuclear Plant

Time	Location 1 CDRM & Pzr Htr Room - Unit 2		Location 2 CDRM & Pzr Htr Room - Unit 2		Location 3 CDRM & Pzr Htr Room - Unit 2		Location 4 CDRM & Pzr Htr Room - Unit 1		Location 5 CDRM & Pzr Htr Room - Unit 1		Location 6 CDRM & Pzr Htr Room - Unit 1		Location 7 Elev 772 Stairs Unit 2 End		Location 8 Elev 772 U2 End Board Room Area		Location 9 Elev 772 Middle Board Room Area		Location 10 Elev 772 U1 End Board Room Area		Location 11 Elev 772 Area Various Boards		Location 12 Elev 772 Stairs Unit 1 End		Location 13		Location 14		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr		
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00	
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30	
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00	
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30	
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55	
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	0.16	<0.05	0.13	0.05	0.17	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00	
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	0.17	<0.05	0.14	0.06	0.18	<0.05	0.13	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	02:05	
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.06	0.18	<0.05	0.14	0.06	0.19	<0.05	0.14	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	02:10	
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	0.19	0.05	0.15	0.06	0.20	0.05	0.14	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	02:15	
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	0.20	0.05	0.15	0.07	0.20	0.05	0.15	<0.05	0.05	<0.05	0.05	<0.05	<0.05	02:20	
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	0.20	0.05	0.16	0.07	0.21	0.05	0.15	<0.05	0.06	<0.05	0.05	<0.05	<0.05	02:25	
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.07	0.21	0.05	0.17	0.07	0.22	0.05	0.16	<0.05	0.06	<0.05	0.05	<0.05	<0.05	02:30	
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.07	0.21	0.05	0.17	0.07	0.22	0.05	0.16	<0.05	0.06	<0.05	0.05	<0.05	<0.05	02:35	
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	0.22	0.06	0.17	0.07	0.23	0.05	0.17	<0.05	0.06	<0.05	0.05	<0.05	<0.05	02:40	
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	0.23	0.06	0.18	0.08	0.24	0.06	0.17	<0.05	0.06	<0.05	0.05	<0.05	<0.05	02:45	
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	0.23	0.06	0.18	0.08	0.24	0.06	0.18	<0.05	0.06	<0.05	0.05	<0.05	<0.05	02:50	
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.08	0.24	0.06	0.19	0.08	0.25	0.06	0.18	<0.05	0.07	<0.05	0.06	<0.05	<0.05	02:55	
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.08	0.24	0.06	0.19	0.08	0.25	0.06	0.18	<0.05	0.07	<0.05	0.06	<0.05	<0.05	03:00	
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.08	0.24	0.06	0.19	0.08	0.26	0.06	0.19	<0.05	0.07	<0.05	0.06	<0.05	<0.05	03:05	
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	0.25	0.06	0.20	0.08	0.26	0.06	0.19	<0.05	0.07	<0.05	0.06	<0.05	<0.05	03:10	
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	0.25	0.06	0.20	0.09	0.26	0.06	0.19	<0.05	0.07	<0.05	0.06	<0.05	<0.05	03:15	
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.36	1.0	1.1	3.4	0.90	2.7	1.1	3.5	0.87	2.6	0.33	1.0	0.28	0.85	<0.05	<0.05	03:20	
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	3.5	3.6	11	2.9	8.8	3.8	11	2.8	8.5	1.0	3.2	0.92	2.7	<0.05	<0.05	03:25	
03:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.7	8.2	8.6	26	6.9	20	9.0	27	6.7	20	2.5	7.6	2.1	6.5	<0.05	<0.05	03:30	
03:35	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	5.3	16	16	50	13	40	17	53	13	39	4.9	14	4.2	12	<0.05	<0.05	03:35	

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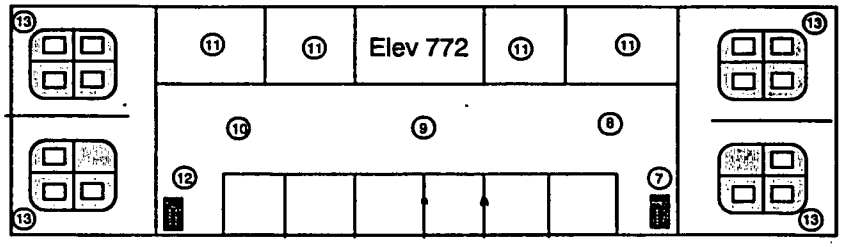
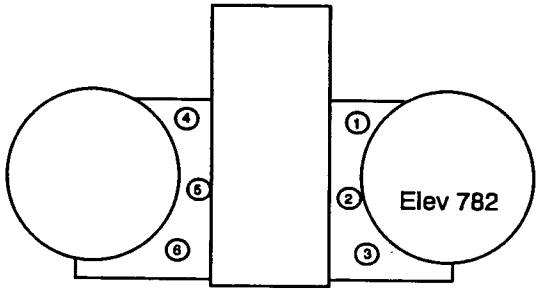
Watts Bar Nuclear Plant

	EP Map Points:1, 2, 3, 4, 5, 6 Data Location: Aux Bldg Locations					EP Map Points:7, 8, 9, 10, 11, 12, 13 Data Location: Board Rooms					EP Map Points: Data Location: Not Used			
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER	
Time	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR
03:40	110	<2.0	27000	2.7	<0.05	15000	<2.0	OffHigh	440	1.3	15000	<2.0	OffHigh	440
03:45	180	<2.0	49000	4.9	<0.05	28000	2.8	OffHigh	780	1.8	28000	2.8	OffHigh	780
03:50	300	<2.0	OffHigh	8.8	<0.05	46000	4.6	OffHigh	1100	2.3	46000	4.6	OffHigh	1100
03:55	500	<2.0	OffHigh	14	<0.05	OffHigh	7.0	OffHigh	1600	2.7	OffHigh	7.0	OffHigh	1600
04:00	820	<2.0	OffHigh	23	<0.05	OffHigh	9.8	OffHigh	2100	3.2	OffHigh	9.8	OffHigh	2100
04:05	1200	<2.0	OffHigh	35	<0.05	OffHigh	13	OffHigh	2600	3.6	OffHigh	13	OffHigh	2600
04:10	1900	<2.0	OffHigh	51	<0.05	OffHigh	16	OffHigh	3100	4.0	OffHigh	16	OffHigh	3100
04:15	2800	<2.0	OffHigh	70	0.05	OffHigh	20	OffHigh	3700	4.3	OffHigh	20	OffHigh	3700
04:20	3900	<2.0	OffHigh	93	0.06	OffHigh	25	OffHigh	4200	4.7	OffHigh	25	OffHigh	4200
04:25	5200	<2.0	OffHigh	120	0.08	OffHigh	29	OffHigh	4700	5.0	OffHigh	29	OffHigh	4700
04:30	6900	<2.0	OffHigh	150	0.10	OffHigh	34	OffHigh	5200	5.3	OffHigh	34	OffHigh	5200
04:35	8900	<2.0	OffHigh	180	0.12	OffHigh	39	OffHigh	5700	5.6	OffHigh	39	OffHigh	5700
04:40	11000	<2.0	OffHigh	220	0.14	OffHigh	44	OffHigh	6100	5.9	OffHigh	44	OffHigh	6100
04:45	13000	<2.0	OffHigh	260	0.16	OffHigh	48	OffHigh	6500	6.1	OffHigh	48	OffHigh	6500
04:50	16000	<2.0	OffHigh	310	0.18	OffHigh	53	OffHigh	6500	6.0	OffHigh	53	OffHigh	6500
04:55	19000	<2.0	OffHigh	350	0.21	OffHigh	56	OffHigh	6300	5.7	OffHigh	56	OffHigh	6300
05:00	23000	2.3	OffHigh	400	0.24	OffHigh	58	OffHigh	6100	5.5	OffHigh	58	OffHigh	6100
05:05	27000	2.7	OffHigh	450	0.26	OffHigh	60	OffHigh	5800	5.2	OffHigh	60	OffHigh	5800
05:10	31000	3.1	OffHigh	500	0.29	OffHigh	61	OffHigh	5500	4.8	OffHigh	61	OffHigh	5500
05:15	35000	3.5	OffHigh	550	0.32	OffHigh	61	OffHigh	5100	4.5	OffHigh	61	OffHigh	5100
05:20	39000	3.9	OffHigh	600	0.34	OffHigh	61	OffHigh	4600	4.0	OffHigh	61	OffHigh	4600
05:25	44000	4.4	OffHigh	650	0.37	OffHigh	60	OffHigh	4100	3.6	OffHigh	60	OffHigh	4100
05:30	49000	4.9	OffHigh	700	0.39	OffHigh	58	OffHigh	3600	3.2	OffHigh	58	OffHigh	3600
05:35	OffHigh	5.3	OffHigh	740	0.41	OffHigh	56	OffHigh	3100	2.7	OffHigh	56	OffHigh	3100
05:40	OffHigh	5.8	OffHigh	780	0.43	OffHigh	53	OffHigh	2500	2.2	OffHigh	53	OffHigh	2500





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Watts Bar Nuclear Plant

	Location 1 CDRM & Pzr Htr Room - Unit 2		Location 2 CDRM & Pzr Htr Room - Unit 2		Location 3 CDRM & Pzr Htr Room - Unit 2		Location 4 CDRM & Pzr Htr Room - Unit 1		Location 5 CDRM & Pzr Htr Room - Unit 1		Location 6 CDRM & Pzr Htr Room - Unit 1		Location 7 Elev 772 Stairs Unit 2 End	
Time	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr
03:40	<0.05	0.10	<0.05	0.07	<0.05	0.14	<0.05	0.10	<0.05	0.08	<0.05	0.14	8.3	24
03:45	0.06	0.20	<0.05	0.14	0.09	0.28	0.06	0.20	0.05	0.17	0.09	0.28	11	33
03:50	0.12	0.36	0.08	0.25	0.16	0.49	0.12	0.36	0.10	0.30	0.16	0.49	13	41
03:55	0.19	0.58	0.13	0.41	0.26	0.80	0.19	0.58	0.16	0.49	0.26	0.80	16	48
04:00	0.29	0.88	0.20	0.62	0.40	1.2	0.29	0.88	0.24	0.73	0.40	1.2	18	55
04:05	0.42	1.2	0.29	0.88	0.58	1.7	0.42	1.2	0.35	1.0	0.58	1.7	20	61
04:10	0.57	1.7	0.40	1.2	0.79	2.3	0.57	1.7	0.48	1.4	0.79	2.3	22	67
04:15	0.76	2.2	0.53	1.6	1.0	3.1	0.76	2.2	0.63	1.9	1.0	3.1	24	73
04:20	0.97	2.9	0.68	2.0	1.3	4.0	0.97	2.9	0.81	2.4	1.3	4.0	26	78
04:25	1.2	3.6	0.85	2.5	1.6	5.0	1.2	3.6	1.0	3.0	1.6	5.0	28	83
04:30	1.5	4.4	1.0	3.1	2.0	6.1	1.5	4.4	1.2	3.7	2.0	6.1	29	87
04:35	1.8	5.4	1.2	3.7	2.4	7.3	1.8	5.4	1.5	4.5	2.4	7.3	30	92
04:40	2.1	6.4	1.5	4.4	2.9	8.7	2.1	6.4	1.7	5.3	2.9	8.7	32	96
04:45	2.5	7.4	1.7	5.2	3.4	10	2.5	7.4	2.0	6.2	3.4	10	33	99
04:50	2.9	8.6	2.0	6.0	3.9	11	2.9	8.6	2.4	7.2	3.9	11	32	96
04:55	3.3	9.9	2.3	6.9	4.5	13	3.3	9.9	2.7	8.2	4.5	13	30	91
05:00	3.7	11	2.6	7.8	5.1	15	3.7	11	3.1	9.3	5.1	15	29	86
05:05	4.1	12	2.9	8.7	5.7	17	4.1	12	3.4	10	5.7	17	27	81
05:10	4.6	13	3.2	9.6	6.3	18	4.6	13	3.8	11	6.3	18	25	75
05:15	5.0	15	3.5	10	6.9	20	5.0	15	4.2	12	6.9	20	23	69
05:20	5.5	16	3.8	11	7.5	22	5.5	16	4.5	13	7.5	22	21	62
05:25	5.9	17	4.1	12	8.1	24	5.9	17	4.9	14	8.1	24	18	55
05:30	6.3	18	4.4	13	8.6	25	6.3	18	5.2	15	8.6	25	16	48
05:35	6.7	20	4.7	14	9.2	27	6.7	20	5.6	16	9.2	27	13	40
05:40	7.1	21	4.9	14	9.7	29	7.1	21	5.9	17	9.7	29	11	32

/BN782 08-04-1993 15:08:58 wbn93ge

Watts Bar Nuclear Plant

	Location 8 Elev 772 U2 End Board Room Area		Location 9 Elev 772 Middle Board Room Area		Location 10 Elev 772 U1 End Board Room Area		Location 11 Elev 772 Area Various Boards		Location 12 Elev 772 Stairs Unit 1 End		Location 13		Location 14		
Time	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	26	78	20	62	27	81	20	60	7.7	23	6.5	19	<0.05	<0.05	03:40
03:45	34	100	27	83	36	100	26	80	10	30	8.7	26	<0.05	<0.05	03:45
03:50	43	120	34	100	45	130	33	99	12	38	10	32	<0.05	<0.05	03:50
03:55	50	150	40	120	53	150	39	110	14	44	12	38	<0.05	<0.05	03:55
04:00	57	170	46	130	60	180	44	130	17	51	14	43	<0.05	<0.05	04:00
04:05	64	190	51	150	67	200	50	150	19	57	16	48	<0.05	<0.05	04:05
04:10	71	210	56	160	74	220	54	160	21	62	17	53	<0.05	<0.05	04:10
04:15	77	230	61	180	80	240	59	170	22	68	19	57	<0.05	<0.05	04:15
04:20	82	240	65	190	86	250	63	190	24	73	20	61	<0.05	<0.05	04:20
04:25	88	260	70	200	92	270	68	200	26	77	22	65	<0.05	<0.05	04:25
04:30	92	270	73	210	96	280	71	210	27	81	23	69	<0.05	<0.05	04:30
04:35	97	280	77	230	100	300	74	220	28	85	24	72	<0.05	<0.05	04:35
04:40	100	300	80	240	100	310	78	230	29	89	25	75	<0.05	<0.05	04:40
04:45	100	310	83	240	100	320	80	240	30	92	26	78	<0.05	<0.05	04:45
04:50	100	300	80	240	100	310	78	230	29	89	25	75	<0.05	<0.05	04:50
04:55	96	280	76	220	100	300	74	220	28	84	24	72	<0.05	<0.05	04:55
05:00	91	270	73	210	95	280	70	210	27	80	23	68	<0.05	<0.05	05:00
05:05	86	250	68	200	89	260	66	190	25	75	21	64	<0.05	<0.05	05:05
05:10	79	230	63	180	83	240	61	180	23	70	20	59	<0.05	<0.05	05:10
05:15	73	210	58	170	76	220	56	160	21	64	18	54	<0.05	<0.05	05:15
05:20	66	190	52	150	69	200	51	150	19	58	16	49	<0.05	<0.05	05:20
05:25	58	170	46	130	61	180	45	130	17	51	15	43	<0.05	<0.05	05:25
05:30	51	150	40	120	53	150	39	110	15	44	13	38	<0.05	<0.05	05:30
05:35	43	120	34	100	44	130	33	98	12	37	11	32	<0.05	<0.05	05:35
05:40	34	100	27	81	36	100	26	79	10	30	9.0	26	<0.05	<0.05	05:40

W782 [redacted]-1993 15:10:03 wbn93ge

Watts Bar Nuclear Plant

[redacted]oints:1, 2, 3, 4, 5, 6

[redacted]cation: Aux Bldg Locations

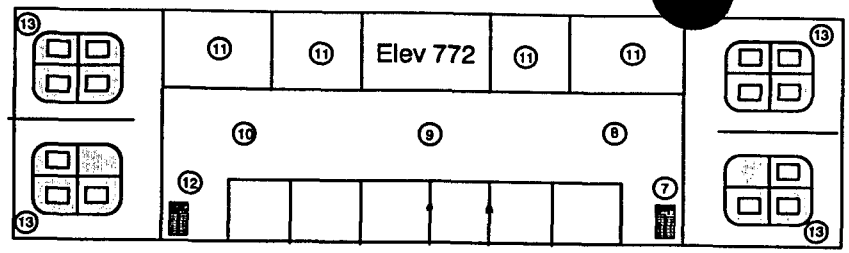
EP Map Points:7, 8, 9, 10, 11, 12, 13

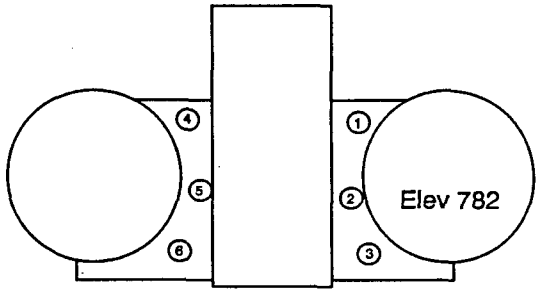
Data Location: Board Rooms

EP Map Points:

Data Location: Not Used

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
05:45	OffHigh	6.2	OffHigh	810	0.44	OffHigh	50	OffHigh	1900	1.6	OffHigh	50	OffHigh	1900
05:50	OffHigh	6.6	OffHigh	850	0.45	OffHigh	47	OffHigh	1300	1.1	OffHigh	47	OffHigh	1300
05:55	OffHigh	7.1	OffHigh	870	0.46	OffHigh	43	OffHigh	650	0.57	OffHigh	43	OffHigh	650
06:00	OffHigh	7.5	OffHigh	900	0.47	OffHigh	38	<100	<2.0	<0.05	OffHigh	38	<100	<2.0
06:05	OffHigh	7.8	OffHigh	920	0.47	OffHigh	35	<100	<2.0	<0.05	OffHigh	35	<100	<2.0
06:10	OffHigh	8.2	OffHigh	930	0.47	OffHigh	32	<100	<2.0	<0.05	OffHigh	32	<100	<2.0
06:15	OffHigh	8.5	OffHigh	940	0.47	OffHigh	29	<100	<2.0	<0.05	OffHigh	29	<100	<2.0
06:20	OffHigh	8.8	OffHigh	950	0.47	OffHigh	27	<100	<2.0	<0.05	OffHigh	27	<100	<2.0
06:25	OffHigh	9.0	OffHigh	950	0.47	OffHigh	25	<100	<2.0	<0.05	OffHigh	25	<100	<2.0
06:30	OffHigh	9.2	OffHigh	950	0.46	OffHigh	24	<100	<2.0	<0.05	OffHigh	24	<100	<2.0
06:40	OffHigh	9.6	OffHigh	940	0.44	OffHigh	22	<100	<2.0	<0.05	OffHigh	22	<100	<2.0
06:50	OffHigh	9.9	OffHigh	930	0.42	OffHigh	20	<100	<2.0	<0.05	OffHigh	20	<100	<2.0
07:00	OffHigh	10	OffHigh	910	0.40	OffHigh	19	<100	<2.0	<0.05	OffHigh	19	<100	<2.0
07:10	OffHigh	10	OffHigh	880	0.38	OffHigh	19	<100	<2.0	<0.05	OffHigh	19	<100	<2.0
07:20	OffHigh	10	OffHigh	850	0.36	OffHigh	18	<100	<2.0	<0.05	OffHigh	18	<100	<2.0
07:30	OffHigh	10	OffHigh	820	0.33	OffHigh	18	<100	<2.0	<0.05	OffHigh	18	<100	<2.0
07:40	OffHigh	9.9	OffHigh	780	0.31	OffHigh	17	<100	<2.0	<0.05	OffHigh	17	<100	<2.0
07:50	OffHigh	9.8	OffHigh	750	0.28	OffHigh	17	<100	<2.0	<0.05	OffHigh	17	<100	<2.0
08:00	OffHigh	9.6	OffHigh	710	0.26	OffHigh	17	<100	<2.0	<0.05	OffHigh	17	<100	<2.0





WBN782 08-04-1993 15:10:03 wbn93ge

Watts Bar Nuclear Plant

Time	Location 1 CDRM & Pzr Htr Room - Unit 2 Closed Window mr/hr	Location 1 Open Window mr/hr	Location 2 CDRM & Pzr Htr Room - Unit 2 Closed Window mr/hr	Location 2 Open Window mr/hr	Location 3 CDRM & Pzr Htr Room - Unit 2 Closed Window mr/hr	Location 3 Open Window mr/hr	Location 4 CDRM & Pzr Htr Room - Unit 1 Closed Window mr/hr	Location 4 Open Window mr/hr	Location 5 CDRM & Pzr Htr Room - Unit 1 Closed Window mr/hr	Location 5 Open Window mr/hr	Location 6 CDRM & Pzr Htr Room - Unit 1 Closed Window mr/hr	Location 6 Open Window mr/hr	Location 7 Elev 772 Stairs Unit 2 End Closed Window mr/hr	Location 7 Open Window mr/hr
05:45	7.4	22	5.2	15	10	30	7.4	22	6.2	18	10	30	8.4	24
05:50	7.8	23	5.4	16	10	31	7.8	23	6.5	19	10	31	5.7	16
05:55	8.0	24	5.6	16	11	32	8.0	24	6.7	20	11	32	3.0	8.5
06:00	8.3	24	5.8	17	11	33	8.3	24	6.9	20	11	33	0.21	0.21
06:05	8.5	25	5.9	17	11	34	8.5	25	7.1	21	11	34	0.19	0.19
06:10	8.7	26	6.1	18	11	35	8.7	26	7.2	21	11	35	0.17	0.17
06:15	8.8	26	6.2	18	12	36	8.8	26	7.4	22	12	36	0.16	0.16
06:20	9.0	26	6.3	18	12	36	9.0	26	7.5	22	12	36	0.15	0.15
06:25	9.1	27	6.3	18	12	37	9.1	27	7.5	22	12	37	0.14	0.14
06:30	9.1	27	6.4	19	12	37	9.1	27	7.6	22	12	37	0.13	0.13
06:40	9.2	27	6.4	19	12	37	9.2	27	7.7	22	12	37	0.12	0.12
06:50	9.2	27	6.5	19	12	37	9.2	27	7.7	22	12	37	0.11	0.11
07:00	9.2	27	6.4	19	12	37	9.2	27	7.6	22	12	37	0.10	0.10
07:10	9.0	27	6.3	18	12	36	9.0	27	7.5	22	12	36	0.10	0.10
07:20	8.9	26	6.2	18	12	36	8.9	26	7.4	22	12	36	0.10	0.10
07:30	8.7	26	6.1	18	11	35	8.7	26	7.3	21	11	35	0.09	0.09
07:40	8.5	25	5.9	17	11	34	8.5	25	7.1	21	11	34	0.09	0.09
07:50	8.3	24	5.8	17	11	33	8.3	24	6.9	20	11	33	0.09	0.09
08:00	8.0	24	5.6	16	11	32	8.0	24	6.7	20	11	32	0.09	0.09

WBN782 08-04-1993 15:10:03 wbn93ge

Watts Bar Nuclear Plant

Time	Location 8 Elev 772 U2 End Board Room Area Closed Window mr/hr	Location 8 Open Window mr/hr	Location 9 Elev 772 Middle Board Room Area Closed Window mr/hr	Location 9 Open Window mr/hr	Location 10 Elev 772 U1 End Board Room Area Closed Window mr/hr	Location 10 Open Window mr/hr	Location 11 Elev 772 Area Various Boards Closed Window mr/hr	Location 11 Open Window mr/hr	Location 12 Elev 772 Stairs Unit 1 End Closed Window mr/hr	Location 12 Open Window mr/hr	Location 13 Closed Window mr/hr	Location 13 Open Window mr/hr	Location 14 Closed Window mr/hr	Location 14 Open Window mr/hr	Time
05:45	26	77	21	62	27	81	20	60	7.8	23	6.9	19	<0.05	<0.05	05:45
05:50	18	52	14	41	18	54	13	40	5.3	15	4.7	13	<0.05	<0.05	05:50
05:55	9.4	26	7.5	21	9.7	27	7.2	20	2.8	7.9	2.5	6.9	<0.05	<0.05	05:55
06:00	0.69	0.69	0.59	0.59	0.64	0.64	0.48	0.48	0.23	0.23	0.38	0.38	<0.05	<0.05	06:00
06:05	0.62	0.62	0.53	0.53	0.58	0.58	0.43	0.43	0.21	0.21	0.34	0.34	<0.05	<0.05	06:05
06:10	0.57	0.57	0.48	0.48	0.53	0.53	0.39	0.39	0.19	0.19	0.31	0.31	<0.05	<0.05	06:10
06:15	0.52	0.52	0.45	0.45	0.48	0.48	0.36	0.36	0.17	0.17	0.28	0.28	<0.05	<0.05	06:15
06:20	0.48	0.48	0.41	0.41	0.45	0.45	0.33	0.33	0.16	0.16	0.26	0.26	<0.05	<0.05	06:20
06:25	0.45	0.45	0.39	0.39	0.42	0.42	0.31	0.31	0.15	0.15	0.25	0.25	<0.05	<0.05	06:25
06:30	0.42	0.42	0.36	0.36	0.39	0.39	0.29	0.29	0.14	0.14	0.23	0.23	<0.05	<0.05	06:30
06:40	0.38	0.38	0.33	0.33	0.36	0.36	0.26	0.26	0.13	0.13	0.21	0.21	<0.05	<0.05	06:40
06:50	0.36	0.36	0.31	0.31	0.33	0.33	0.25	0.25	0.12	0.12	0.19	0.19	<0.05	<0.05	06:50
07:00	0.34	0.34	0.29	0.29	0.31	0.31	0.23	0.23	0.11	0.11	0.18	0.18	<0.05	<0.05	07:00
07:10	0.32	0.32	0.28	0.28	0.30	0.30	0.22	0.22	0.11	0.11	0.18	0.18	<0.05	<0.05	07:10
07:20	0.31	0.31	0.27	0.27	0.29	0.29	0.22	0.22	0.10	0.10	0.17	0.17	<0.05	<0.05	07:20
07:30	0.31	0.31	0.26	0.26	0.28	0.28	0.21	0.21	0.10	0.10	0.17	0.17	<0.05	<0.05	07:30
07:40	0.30	0.30	0.26	0.26	0.28	0.28	0.21	0.21	0.10	0.10	0.16	0.16	<0.05	<0.05	07:40
07:50	0.30	0.30	0.25	0.25	0.28	0.28	0.20	0.20	0.10	0.10	0.16	0.16	<0.05	<0.05	07:50
08:00	0.29	0.29	0.25	0.25	0.27	0.27	0.20	0.20	0.10	0.10	0.16	0.16	<0.05	<0.05	08:00

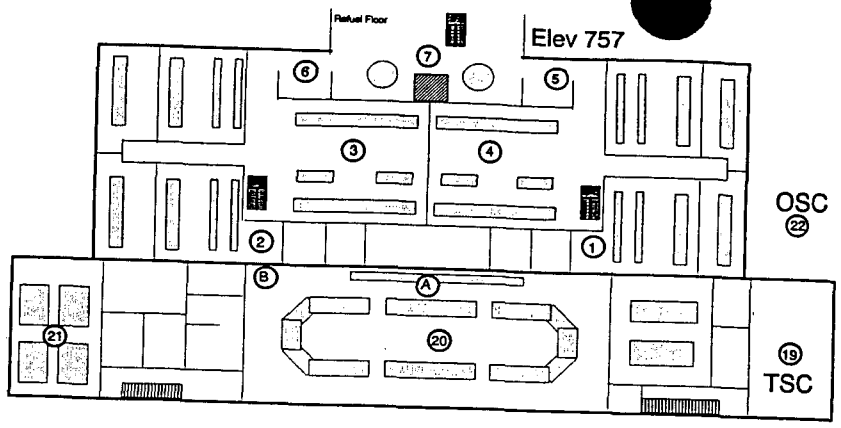
WBN757 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

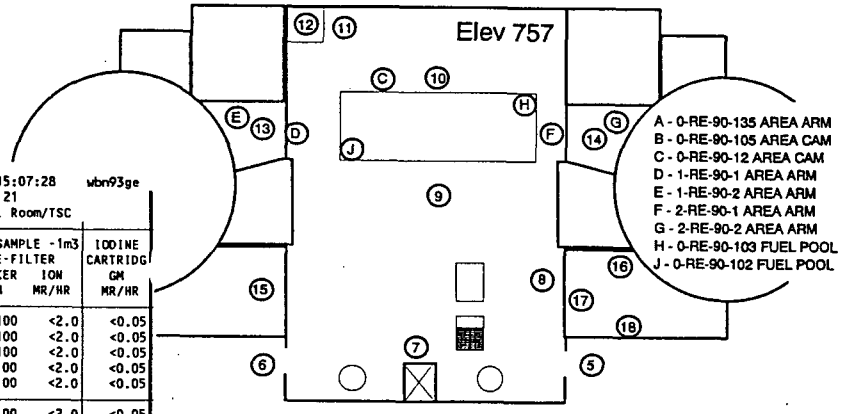
Time	Location 1 CR Access from Unit 1 Bd Room		Location 2 CR access from Unit 2 Bd Room		Location 3 Unit 1 Board Rm		Location 4 Unit 2 Board Rm		Location 5 Unit 2 Access to AB from CB		Location 6 Unit 1 Access to AB from CB		Location 7 Elevator Area		Location 8 Outside EGTS Rm		Location 9 Middle of the Refuel Floor		Location 10 Fuel Pool		Location 11 Outside Stairs		Location 12 Inside Stairs		Location 13 Access to U-1 Containment		Location 14 Access to U-2 Containment		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.06	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.06	<0.05	0.08	<0.05	0.08	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.07	<0.05	0.08	<0.05	0.09	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.07	<0.05	0.09	<0.05	0.09	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.08	<0.05	0.10	<0.05	0.10	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	0.09	<0.05	0.11	<0.05	0.11	0.05	0.16	0.05	0.17	0.07	0.22	0.07	0.23	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	<0.05	<0.05	<0.05	0.07	0.22	0.07	0.22	0.09	0.28	0.09	0.28	0.14	0.44	0.16	0.49	0.20	0.62	0.21	0.64	0.13	0.39	<0.05	<0.05	<0.05	0.13	<0.05	0.13	03:30
03:35	<0.05	0.08	<0.05	0.08	0.14	0.43	0.14	0.43	0.18	0.54	0.18	0.54	0.37	1.1	0.41	1.2	0.51	1.5	0.53	1.6	0.33	0.98	<0.05	0.06	0.10	0.32	0.10	0.32	03:35

WBN757 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 Rev Osmosis Rm		Location 16 EGTS Area		Location 17 EGTS A Train		Location 18 EGTS B Train		Location 19 TSC		Location 20 Control Room		Location 21 Mechanical Rm CB757 South		Location 22 OSC		Location 23		Location 24		Location 25		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	0.10	0.32	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	0.26	0.80	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:35

Time (Min)	-A- 0-135 CR ARM	-B- 0-105 CR CAM	-C- 0-12 757 CAM	-D- 1-1 757 ARM	-E- 1-2 RxAirLok	-F- 2-1 757 ARM	-G- 2-2 RxAirLok	-H- FuelPool	-J- 0-102 FuelPool
	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr
00:00	.	.	.	.	.	.	.	.	.
00:30	.	.	.	.	.	.	.	.	.
01:00	.	.	.	.	.	.	.	.	.
01:30	.	.	.	.	.	.	.	.	.
01:55	.	.	.	.	.	.	.	.	.
02:00	.	.	.	.	.	.	.	.	.
02:05	1.0E-1	1.0E+1	.	.	.	.	.	.	.
02:10	1.0E-1	1.0E+1	8.1E+1	1.0E-1	1.0E-1	1.0E-1	.	1.0E-1	1.0E-1
02:15	1.0E-1	1.0E+1	3.1E+2	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:20	1.0E-1	1.0E+1	7.6E+2	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:25	1.0E-1	1.0E+1	1.4E+3	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:30	1.0E-1	1.0E+1	2.4E+3	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:35	1.0E-1	1.0E+1	3.8E+3@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:40	1.0E-1	1.0E+1	5.5E+3@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:45	1.0E-1	1.0E+1	7.6E+3@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:50	1.0E-1	1.0E+1	1.0E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
02:55	1.0E-1	1.0E+1	1.3E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:00	1.0E-1	1.0E+1	1.6E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:05	1.0E-1	1.0E+1	2.0E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:10	1.0E-1	1.0E+1	2.4E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:15	1.0E-1	1.0E+1	2.8E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:20	1.0E-1	1.0E+1	3.4E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:25	1.0E-1	1.0E+1	3.9E+4@	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1
03:30	1.0E-1	1.0E+1	4.6E+4@	1.0E-1	1.0E-1	1.1E-1	1.0E-1	1.0E-1	1.0E-1
03:35	1.0E-1	1.0E+1	5.7E+4@	2.7E-1	1.1E-1	2.8E-1	1.0E-1	1.5E-1	1.5E-1





WBN757 08-04-1993 15:07:28 wbn93ge
Watts Bar Nuclear Plant

Time	EP Map Points:16, 17, 18 Data Location: EGTS Room					EP Map Points:7,8,9,10,11,12,13,14,15 Data Location: Main Aux 757 Elev					EP Map Points:1, 2, 3, 4, 5, 6, Data Location: Board Rooms/OSC					EP Map Points:19, 20, 21 Data Location: Control Room/TSC				
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG
	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	1800	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	3700	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:20	<100	<2.0	280	<2.0	<0.05	<100	<2.0	5700	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:25	<100	<2.0	560	<2.0	<0.05	<100	<2.0	7800	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:30	<100	<2.0	930	<2.0	<0.05	<100	<2.0	9000	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:35	<100	<2.0	1300	<2.0	<0.05	<100	<2.0	12000	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:40	<100	<2.0	1900	<2.0	<0.05	<100	<2.0	14000	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:45	<100	<2.0	2500	<2.0	<0.05	<100	<2.0	16000	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:50	<100	<2.0	3200	<2.0	<0.05	<100	<2.0	18000	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:55	<100	<2.0	4000	<2.0	<0.05	110	<2.0	20000	2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:00	<100	<2.0	4900	<2.0	<0.05	130	<2.0	22000	2.2	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:05	<100	<2.0	5900	<2.0	<0.05	140	<2.0	25000	2.5	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:10	<100	<2.0	6800	<2.0	<0.05	160	<2.0	27000	2.7	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:15	<100	<2.0	7900	<2.0	<0.05	180	<2.0	28000	2.9	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:20	<100	<2.0	8900	<2.0	<0.05	200	<2.0	30000	3.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:25	<100	<2.0	10000	<2.0	<0.05	220	<2.0	35000	3.5	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:30	<100	<2.0	12000	<2.0	<0.05	270	<2.0	OffHigh	5.3	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:35	<100	<2.0	17000	<2.0	<0.05	400	<2.0	OffHigh	10	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05

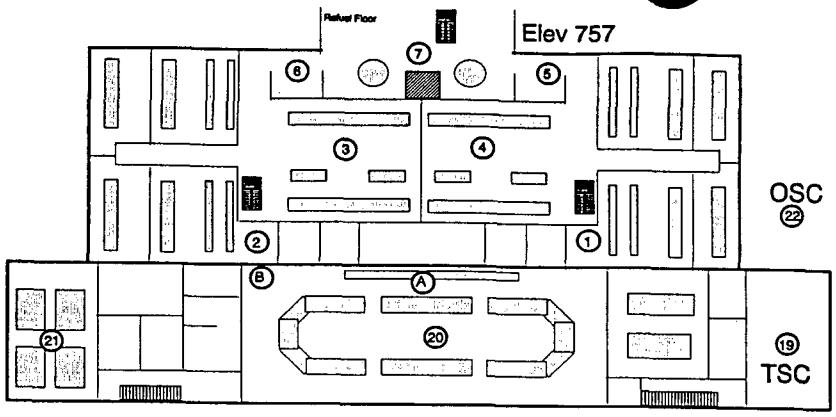
WBN757 08-04-1993 15:08:58 wbn93ge Watts Bar Nuclear Plant

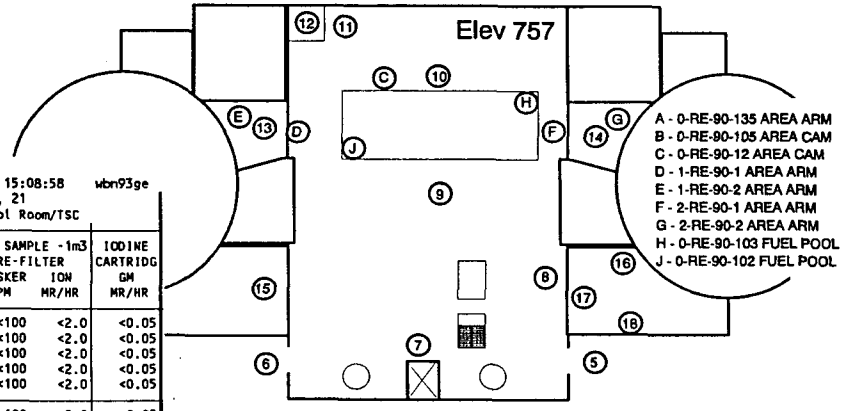
Time	Location 1 CR Access from Unit 1 Bd Room		Location 2 CR access from Unit 2 Bd Room		Location 3 Unit 1 Board Rm		Location 4 Unit 2 Board Rm		Location 5 Unit 2 Access to AB from CB		Location 6 Unit 1 Access to AB from CB		Location 7 Elevator Area		Location 8 Outside EGTS Rm		Location 9 Middle of the Refuel Floor		Location 10 Fuel Pool		Location 11 Outside Stairs		Location 12 Inside Stairs		Location 13 Access to U-1 Containment		Location 14 Access to U-2 Containment		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	<0.05	0.13	<0.05	0.13	0.22	0.67	0.22	0.67	0.28	0.84	0.28	0.84	0.80	2.4	0.89	2.6	1.1	3.3	1.1	3.4	0.71	2.1	0.08	0.14	0.23	0.70	0.23	0.70	03:40
03:45	0.05	0.17	0.05	0.17	0.30	0.90	0.30	0.90	0.37	1.1	0.37	1.1	1.4	4.3	1.6	4.8	2.0	6.1	2.1	6.3	1.2	3.8	0.14	0.26	0.42	1.2	0.42	1.2	03:45
03:50	0.07	0.21	0.07	0.21	0.37	1.1	0.37	1.1	0.46	1.3	0.46	1.3	2.3	6.9	2.5	7.7	3.2	9.7	3.3	10	2.0	6.2	0.23	0.42	0.68	2.0	0.68	2.0	03:50
03:55	0.08	0.25	0.08	0.25	0.43	1.3	0.43	1.3	0.54	1.6	0.54	1.6	3.3	10	3.7	11	4.7	14	4.9	14	3.0	9.0	0.33	0.61	0.99	2.9	0.99	2.9	03:55
04:00	0.09	0.28	0.09	0.28	0.49	1.4	0.49	1.4	0.62	1.8	0.62	1.8	4.5	13	5.1	15	6.4	19	6.6	19	4.0	12	0.46	0.83	1.3	4.0	1.3	4.0	04:00
04:05	0.10	0.32	0.10	0.32	0.56	1.6	0.56	1.6	0.70	2.0	0.70	2.1	5.9	17	6.6	19	8.3	25	8.6	25	5.3	15	0.59	1.0	1.7	5.2	1.7	5.2	04:05
04:10	0.11	0.35	0.11	0.35	0.61	1.8	0.61	1.8	0.77	2.2	0.77	2.3	7.4	22	8.3	24	10	31	10	32	6.6	19	0.75	1.3	2.2	6.5	2.2	6.5	04:10
04:15	0.12	0.38	0.12	0.38	0.66	1.9	0.66	1.9	0.83	2.5	0.83	2.5	9.0	27	10	30	12	38	13	39	8.0	24	0.91	1.6	2.6	8.0	2.6	8.0	04:15
04:20	0.13	0.41	0.13	0.41	0.71	2.1	0.71	2.1	0.89	2.6	0.89	2.6	10	32	11	35	15	45	15	46	9.6	28	1.0	1.9	3.1	9.5	3.1	9.5	04:20
04:25	0.14	0.43	0.14	0.43	0.76	2.2	0.76	2.2	0.95	2.8	0.95	2.8	12	37	14	42	17	53	18	54	11	33	1.2	2.3	3.7	11	3.7	11	04:25
04:30	0.15	0.45	0.15	0.45	0.79	2.3	0.79	2.3	1.0	2.9	1.0	2.9	14	43	16	48	20	61	21	63	12	38	1.4	2.6	4.2	12	4.2	12	04:30
04:35	0.16	0.48	0.16	0.48	0.83	2.5	0.83	2.5	1.0	3.1	1.0	3.1	16	49	18	54	23	69	23	71	14	43	1.6	3.0	4.8	14	4.8	14	04:35
04:40	0.16	0.50	0.16	0.50	0.87	2.6	0.87	2.6	1.0	3.2	1.1	3.2	18	55	20	61	25	77	26	80	16	49	1.8	3.4	5.4	16	5.4	16	04:40
04:45	0.17	0.51	0.17	0.51	0.90	2.6	0.90	2.6	1.1	3.3	1.1	3.3	20	61	22	68	28	86	29	89	18	54	2.0	3.8	6.0	18	6.0	18	04:45
04:50	0.16	0.50	0.16	0.50	0.87	2.6	0.87	2.6	1.1	3.2	1.1	3.2	22	67	25	75	31	94	32	98	20	60	2.3	4.2	6.6	19	6.6	19	04:50
04:55	0.16	0.47	0.16	0.47	0.83	2.4	0.83	2.4	1.0	3.1	1.0	3.1	24	73	27	81	34	100	35	100	21	65	2.5	4.5	7.2	21	7.2	21	04:55
05:00	0.15	0.45	0.15	0.45	0.79	2.3	0.79	2.3	0.99	2.9	1.0	2.9	26	78	29	87	36	110	38	110	23	69	2.6	4.9	7.7	23	7.7	23	05:00
05:05	0.14	0.42	0.14	0.42	0.74	2.2	0.74	2.2	0.93	2.7	0.94	2.7	27	83	30	92	39	110	40	120	24	74	2.8	5.2	8.2	24	8.2	24	05:05
05:10	0.13	0.39	0.13	0.39	0.68	2.0	0.68	2.0	0.87	2.5	0.87	2.5	29	87	32	96	40	120	42	120	25	77	2.9	5.4	8.6	25	8.6	25	05:10
05:15	0.12	0.36	0.12	0.36	0.63	1.8	0.63	1.8	0.80	2.3	0.80	2.3	30	90	33	100	42	120	43	130	26	80	3.1	5.7	8.9	26	8.9	26	05:15
05:20	0.10	0.32	0.10	0.32	0.57	1.6	0.57	1.6	0.72	2.1	0.72	2.1	31	93	34	100	43	130	45	130	27	83	3.2	5.9	9.2	27	9.2	27	05:20
05:25	0.09	0.28	0.09	0.28	0.50	1.5	0.50	1.5	0.64	1.8	0.64	1.8	31	95	35	100	44	130	46	130	28	85	3.3	6.0	9.4	28	9.4	28	05:25
05:30	0.08	0.25	0.08	0.25	0.44	1.3	0.44	1.3	0.56	1.6	0.56	1.6	32	97	36	100	45	130	47	140	28	86	3.3	6.2	9.6	28	9.6	28	05:30
05:35	0.07	0.21	0.07	0.21	0.37	1.0	0.37	1.0	0.47	1.3	0.48	1.3	32	97	36	100	46	130	47	140	29	87	3.4	6.3	9.7	28	9.7	28	05:35
05:40	0.05	0.17	0.05	0.17	0.30	0.88	0.30	0.88	0.38	1.1	0.39	1.1	32	98	36	100	46	130	47	140	29	87	3.4	6.3	9.7	28	9.7	28	05:40

WBN757 08-04-1993 15:08:58 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 Rev Osmosis Rm		Location 16 EGTS Area		Location 17 EGTS A Train		Location 18 EGTS B Train		Location 19 TSC		Location 20 Control Room		Location 21 Mechanical Rm CB757 South		Location 22 OSC		Location 23		Location 24		Location 25		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	0.58	1.7	<0.05	0.12	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:40
03:45	1.0	3.1	0.08	0.24	<0.05	0.10	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:45
03:50	1.6	5.0	0.14	0.43	0.06	0.18	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:50
03:55	2.4	7.3	0.23	0.70	0.10	0.30	0.07	0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:55
04:00	3.3	10	0.36	1.0	0.15	0.45	0.11	0.31	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:00
04:05	4.3	13	0.52	1.5	0.22	0.65	0.16	0.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:05
04:10	5.4	16	0.71	2.0	0.30	0.89	0.22	0.60	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:10
04:15	6.5	19	0.94	2.7	0.40	1.1	0.29	0.80	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:15
04:20	7.8	23	1.2	3.5	0.52	1.5	0.37	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:20
04:25	9.1	27	1.5	4.4	0.65	1.9	0.47	1.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:25
04:30	10	31	1.8	5.4	0.80	2.3	0.58	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:30
04:35	11	35	2.2	6.5	0.96	2.8	0.70	1.9	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:35
04:40	13	40	2.6	7.7	1.1	3.3	0.83	2.2	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:40
04:45	14	44	3.1	9.0	1.3	3.8	0.98	2.6	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:45
04:50	16	49	3.5	10	1.5	4.4	1.1	3.0	<0.05	0.05	<0.05	0.09	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:50
04:55	17	53	4.1	11	1.7	5.1	1.3	3.5	<0.05	0.06	<0.05	0.10	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:55
05:00	19	57	4.6	13	2.0	5.8	1.4	3.9	<0.05	0.06	<0.05	0.11	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:00
05:05	20	60	5.1	14	2.2	6.4	1.6	4.4	<0.05	0.07	<0.05	0.12	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:05
05:10	21	63	5.7	16	2.4	7.1	1.8	4.9	<0.05	0.08	<0.05	0.13	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:10
05:15	21	65	6.3	18	2.7	7.8	1.9	5.3	<0.05	0.08	0.05	0.15	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:15
05:20	22	67	6.8	19	2.9	8.5	2.1	5.8	<0.05	0.09	0.05	0.16	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:20
05:25	23	69	7.3	21	3.1	9.1	2.3	6.2	<0.05	0.10	0.05	0.17	<0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:25
05:30	23	70	7.8	22	3.4	9.8	2.4	6.7	<0.05	0.10	0.06	0.18	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:30
05:35	23	71	8.3	24	3.6	10	2.6	7.1	<0.05	0.11	0.06	0.18	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:35
05:40	23	71	8.8	25	3.8	11	2.7	7.5	<0.05	0.11	0.06	0.19	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:40

Time (Min)	-A- 0-135 CR ARM	-B- 0-105 CR CAM	-C- 0-12 757 CAM	-D- 1-1 757 ARM	-E- 1-2 RxAirLok	-F- 2-1 757 ARM	-G- 2-2 RxAirLok	-H- 0-103 FuelPool	-J- 0-102 FuelPool
	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr
03:40	1.0E-1	1.0E+1	7.5E+4@	5.9E-1	2.3E-1	6.2E-1	1.0E-1	3.3E-1	3.4E-1
03:45	1.0E-1	1.0E+1	1.1E+5@	1.0E+0	4.3E-1	1.1E+0	1.0E-1	6.0E-1	6.2E-1
03:50	1.0E-1	1.0E+1	1.7E+5@	1.7E+0	6.9E-1	1.7E+0	1.0E-1	9.5E-1	9.9E-1
03:55	1.0E-1	1.0E+1	2.7E+5@	2.4E+0	1.0E+0	2.6E+0	1.0E-1	1.3E+0	1.4E+0
04:00	1.0E-1	1.0E+1	4.3E+5@	3.3E+0	1.3E+0	3.5E+0	1.5E-1	1.8E+0	1.9E+0
04:05	1.0E-1	1.0E+1	6.7E+5@	4.4E+0	1.7E+0	4.6E+0	2.2E-1	2.4E+0	2.5E+0
04:10	1.0E-1	1.0E+1	1.0E+6@	5.5E+0	2.2E+0	5.7E+0	3.0E-1	3.0E+0	3.2E+0
04:15	1.0E-1	1.0E+1	1.4E+6@	6.6E+0	2.7E+0	7.0E+0	4.0E-1	3.7E+0	3.8E+0
04:20	1.0E-1	1.0E+1	2.0E+6@	7.9E+0	3.2E+0	8.3E+0	5.2E-1	4.4E+0	4.6E+0
04:25	1.0E-1	1.0E+1	2.8E+6@	9.3E+0	3.7E+0	9.7E+0	6.5E-1	5.2E+0	5.4E+0
04:30	1.0E-1	1.0E+1	3.7E+6@	1.0E+1@	4.3E+0	1.1E+1@	8.0E-1	5.9E+0	6.2E+0
04:35	1.0E-1	1.0E+1	4.8E+6@	1.2E+1@	4.9E+0	1.2E+1@	9.7E-1	6.7E+0	7.0E+0
04:40	1.0E-1	1.0E+1	6.1E+6@	1.3E+1@	5.5E+0	1.4E+1@	1.1E+0	7.6E+0	7.9E+0
04:45	1.0E-1	1.0E+1	7.7E+6@	1.5E+1@	6.1E+0	1.5E+1@	1.3E+0	8.4E+0	8.7E+0
04:50	1.0E-1	1.0E+1	9.5E+6@	1.6E+1@	6.7E+0	1.7E+1@	1.5E+0	9.2E+0	9.6E+0
04:55	1.0E-1	1.0E+1	OffHigh	1.8E+1@	7.3E+0	1.8E+1@	1.7E+0	1.0E+1	1.0E+1
05:00	1.0E-1	1.0E+1	OffHigh	1.9E+1@	7.8E+0	2.0E+1@	2.0E+0	1.0E+1	1.1E+1
05:05	1.0E-1	1.0E+1	OffHigh	2.0E+1@	8.3E+0	2.1E+1@	2.2E+0	1.1E+1	1.1E+1
05:10	1.0E-1	1.0E+1	OffHigh	2.1E+1@	8.7E+0	2.2E+1@	2.5E+0	1.2E+1	1.2E+1
05:15	1.0E-1	1.0E+1	OffHigh	2.2E+1@	9.0E+0	2.3E+1@	2.7E+0	1.2E+1	1.2E+1
05:20	1.0E-1	1.0E+1	OffHigh	2.3E+1@	9.3E+0	2.4E+1@	2.9E+0	1.2E+1	1.3E+1
05:25	1.0E-1	1.0E+1	OffHigh	2.3E+1@	9.5E+0	2.4E+1@	3.2E+0	1.3E+1	1.3E+1
05:30	1.0E-1	1.0E+1	OffHigh	2.3E+1@	9.7E+0	2.5E+1@	3.4E+0	1.3E+1	1.3E+1
05:35	1.0E-1	1.0E+1	OffHigh	2.4E+1@	9.8E+0	2.5E+1@	3.6E+0	1.3E+1	1.4E+1
05:40	1.0E-1	1.0E+1	OffHigh	2.4E+1@	9.8E+0	2.5E+1@	3.8E+0	1.3E+1	1.4E+1





WBN757 08-04-1993 15:08:58 wbn93ge

Watts Bar Nuclear Plant

Time	EP Map Points:16, 17, 18 Data Location: EGTS Room					EP Map Points:7,8,9,10,11,12,13,14,15 Data Location: Main Aux 757 Elev					EP Map Points:1, 2, 3, 4, 5, 6, 2 Data Location: Board Rooms/OSC					EP Map Points:19, 20, 21 Data Location: Control Room/TSC				
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG
	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR
03:40	110	<2.0	27000	2.7	<0.05	700	<2.0	OffHigh	20	<0.05	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
03:45	180	<2.0	49000	4.9	<0.05	1200	<2.0	OffHigh	39	<0.05	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
03:50	300	<2.0	OffHigh	8.8	<0.05	2200	<2.0	OffHigh	69	0.08	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
03:55	500	<2.0	OffHigh	14	<0.05	3800	<2.0	OffHigh	110	0.11	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:00	820	<2.0	OffHigh	23	<0.05	6000	<2.0	OffHigh	160	0.16	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:05	1200	<2.0	OffHigh	35	<0.05	8900	<2.0	OffHigh	220	0.21	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:10	1900	<2.0	OffHigh	51	<0.05	12000	<2.0	OffHigh	300	0.26	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:15	2800	<2.0	OffHigh	70	0.05	17000	<2.0	OffHigh	380	0.32	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:20	3900	<2.0	OffHigh	93	0.06	22000	2.2	OffHigh	480	0.38	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:25	5200	<2.0	OffHigh	120	0.08	28000	2.8	OffHigh	580	0.44	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:30	6900	<2.0	OffHigh	150	0.10	35000	3.5	OffHigh	680	0.51	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:35	8900	<2.0	OffHigh	180	0.12	43000	4.3	OffHigh	790	0.58	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:40	11000	<2.0	OffHigh	220	0.14	OffHigh	5.1	OffHigh	910	0.65	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:45	13000	<2.0	OffHigh	260	0.16	OffHigh	6.0	OffHigh	1000	0.72	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:50	16000	<2.0	OffHigh	310	0.18	OffHigh	7.0	OffHigh	1100	0.79	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
04:55	19000	<2.0	OffHigh	350	0.21	OffHigh	8.0	OffHigh	1200	0.85	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:00	23000	2.3	OffHigh	400	0.24	OffHigh	9.0	OffHigh	1300	0.91	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:05	27000	2.7	OffHigh	450	0.26	OffHigh	10	OffHigh	1400	0.96	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:10	31000	3.1	OffHigh	500	0.29	OffHigh	11	OffHigh	1500	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:15	35000	3.5	OffHigh	550	0.32	OffHigh	12	OffHigh	1600	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:20	39000	3.9	OffHigh	600	0.34	OffHigh	13	OffHigh	1600	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:25	44000	4.4	OffHigh	650	0.37	OffHigh	13	OffHigh	1700	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:30	49000	4.9	OffHigh	700	0.39	OffHigh	14	OffHigh	1700	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:35	OffHigh	5.3	OffHigh	740	0.41	OffHigh	15	OffHigh	1700	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05
05:40	OffHigh	5.8	OffHigh	780	0.43	OffHigh	16	OffHigh	1700	1.0	<100	<2.0	<100	<2.0		<100	<2.0	<100	<2.0	<0.05

WBN757 08-04-1993 15:10:03 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 CR Access from Unit 1 Bd Room		Location 2 CR access from Unit 2 Bd Room		Location 3 Unit 1 Board Rm		Location 4 Unit 2 Board Rm		Location 5 Unit 2 Access to AB from CB		Location 6 Unit 1 Access to AB from CB		Location 7 Elevator Area		Location 8 Outside EGTS Rm		Location 9 Middle of the Refuel Floor		Location 10 Fuel Pool		Location 11 Outside Stairs		Location 12 Inside Stairs		Location 13 Access to U-1 Containment		Location 14 Access to U-2 Containment		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	<0.05	0.12	<0.05	0.12	0.22	0.67	0.22	0.67	0.29	0.85	0.30	0.85	32	97	36	100	46	130	47	140	29	87	3.4	6.3	9.7	28	9.7	28	05:45
05:50	<0.05	0.08	<0.05	0.08	0.15	0.45	0.15	0.45	0.20	0.57	0.21	0.58	32	96	36	100	45	130	47	140	28	86	3.4	6.3	9.6	28	9.6	28	05:50
05:55	<0.05	<0.05	<0.05	<0.05	0.08	0.23	0.08	0.23	0.11	0.29	0.11	0.30	31	95	35	100	44	130	46	130	28	84	3.3	6.3	9.4	28	9.4	28	05:55
06:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	31	92	34	100	43	130	45	130	27	82	3.3	6.2	9.2	27	9.2	27	06:00
06:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	30	90	33	100	42	120	43	130	26	80	3.2	6.0	8.9	26	8.9	26	06:05
06:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	29	87	32	97	41	120	42	120	26	77	3.1	5.9	8.7	25	8.7	25	06:10
06:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	28	84	31	93	39	110	41	120	25	75	3.0	5.7	8.4	25	8.4	25	06:15
06:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	27	82	30	91	38	110	39	110	24	73	2.9	5.6	8.1	24	8.1	24	06:20
06:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	26	79	29	88	37	110	38	110	23	71	2.9	5.5	7.9	23	7.9	23	06:25
06:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	25	77	28	85	36	100	37	110	23	68	2.8	5.4	7.6	22	7.6	22	06:30
06:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	24	72	27	80	34	100	35	100	21	64	2.7	5.2	7.2	21	7.2	21	06:40
06:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	22	68	25	75	32	95	33	99	20	60	2.5	5.0	6.8	20	6.8	20	06:50
07:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21	64	23	71	30	90	31	93	19	57	2.4	4.7	6.4	18	6.4	18	07:00
07:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	20	60	22	67	28	84	29	87	18	53	2.3	4.5	6.0	17	6.0	17	07:10
07:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	19	56	21	63	26	79	27	82	17	50	2.2	4.4	5.6	16	5.6	16	07:20
07:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17	53	19	59	25	75	26	77	16	47	2.1	4.2	5.3	15	5.3	15	07:30
07:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	16	50	18	56	23	70	24	73	15	44	2.0	4.0	5.0	14	5.0	14	07:40
07:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	15	47	17	52	22	66	23	68	14	42	1.9	3.9	4.7	14	4.7	14	07:50
08:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	15	44	16	49	21	62	21	64	13	39	1.8	3.7	4.4	13	4.4	13	08:00

WBN757 08-04-1993 15:10:03 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 Rev Osmosis Rm		Location 16 EGTS Area		Location 17 EGTS A Train		Location 18 EGTS B Train		Location 19 TSC		Location 20 Control Room		Location 21 Mechanical Rm CB757 South		Location 22 OSC		Location 23		Location 24		Location 25		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	23	71	9.2	26	4.0	11	2.9	7.9	<0.05	0.12	0.06	0.20	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:45
05:50	23	70	9.6	28	4.1	12	3.0	8.2	<0.05	0.12	0.06	0.20	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:50
05:55	23	69	10	29	4.3	12	3.1	8.5	<0.05	0.12	0.07	0.21	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:55
06:00	22	67	10	29	4.4	12	3.2	8.8	<0.05	0.12	0.07	0.21	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:00
06:05	21	65	10	30	4.5	13	3.3	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:05
06:10	21	63	10	31	4.6	13	3.3	9.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:10
06:15	20	61	10	31	4.7	13	3.4	9.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:15
06:20	19	59	11	32	4.8	13	3.4	9.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:20
06:25	19	57	11	32	4.8	14	3.5	9.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:25
06:30	18	55	11	32	4.8	14	3.5	9.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:30
06:40	17	52	11	33	4.9	14	3.5	9.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:40
06:50	16	49	11	33	4.9	14	3.5	9.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:50
07:00	15	46	11	32	4.8	14	3.5	9.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:00
07:10	14	43	11	32	4.8	13	3.4	9.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:10
07:20	13	41	10	31	4.7	13	3.3	9.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:20
07:30	12	38	10	31	4.6	13	3.3	9.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:30
07:40	12	36	10	30	4.5	13	3.2	8.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:40
07:50	11	34	10	29	4.4	12	3.1	8.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:50
08:00	10	32	9.8	28	4.2	12	3.0	8.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	08:00

WBN737 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 Near stairs at west end AB737		Location 2 Outside Hot Instru Shop		Location 3 Outside U-1 Penetration Rm		Location 4 Unit 1 Penetration Rm		Location 5 Unit 1 South Steam Vault		Location 6 Unit 1 South Steam Vault		Location 7 Component Cooling Hx		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	02:35
02:40	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.05	02:40
02:45	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.05	02:45
02:50	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.06	02:50
02:55	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.07	02:55
03:00	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.07	03:00
03:05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.08	03:05
03:10	<0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.09	03:10
03:15	<0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.09	03:15
03:20	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	0.64	0.25	0.77	<0.05	0.10	03:20
03:25	0.08	0.26	<0.05	0.09	<0.05	0.09	<0.05	<0.05	0.69	2.0	0.83	2.5	0.07	0.23	03:25
03:30	0.25	0.76	0.09	0.26	0.08	0.26	<0.05	0.08	1.6	4.9	1.9	5.9	0.22	0.68	03:30
03:35	0.64	1.9	0.22	0.68	0.22	0.66	0.05	0.17	3.1	9.5	3.8	11	0.57	1.7	03:35

WBN737 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 8 Near Elevator		Location 9 Spent Fuel Pool Heat Exchanger		Location 10 U-1 Letdown Hx		Location 11 U-2 Letdown Hx		Location 12 Near Stairs on West End AB737		Location 13 Behind Heating & Ventilatn Rm		Location 14 Outside U-2 Penetration Rm		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	0.21	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	02:55
03:00	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.05	<0.05	0.05	03:00
03:05	<0.05	0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.05	<0.05	0.05	03:05
03:10	<0.05	0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.06	<0.05	0.06	03:10
03:15	<0.05	0.06	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.06	<0.05	0.06	03:15
03:20	<0.05	0.06	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.07	<0.05	0.06	03:20
03:25	0.06	0.14	0.06	0.18	<0.05	<0.05	<0.05	<0.05	0.06	0.20	0.05	0.16	0.05	0.16	03:25
03:30	0.14	0.42	0.17	0.53	<0.05	0.05	<0.05	0.05	0.19	0.57	0.16	0.48	0.15	0.46	03:30
03:35	0.36	1.0	0.45	1.3	<0.05	0.14	<0.05	0.14	0.48	1.4	0.40	1.2	0.39	1.1	03:35

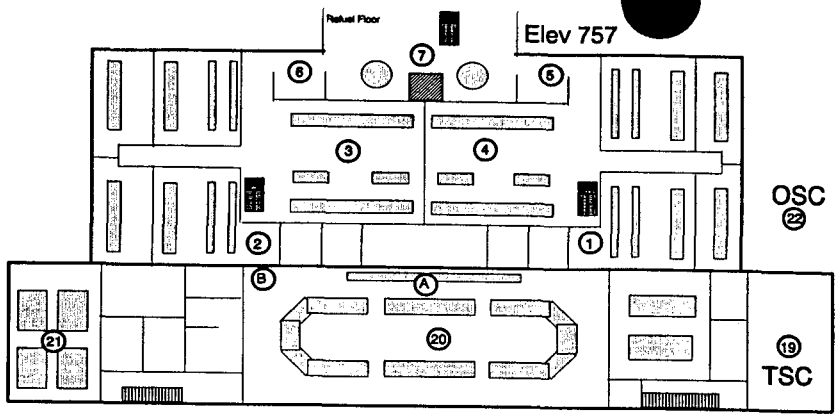
WBN737 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

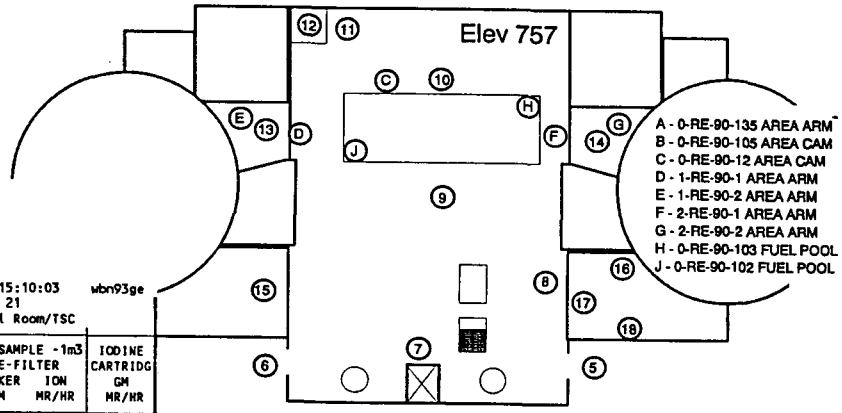
Time	Location 15 Unit 2 Penetration Rm		Location 16 Unit 2 South Steam Vault		Location 17 Unit 2 South Steam Vault		Location 18 Unit 2 ABGTS		Location 19 Unit 1 ABGTS		Location 20 Unit 1 North Steam Vault		Location 21 Unit 1 North Steam Vault		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.42	0.42	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.77	0.77	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	1.1	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.2	1.2	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.3	1.3	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.3	1.4	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.4	1.4	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.4	1.5	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.5	1.5	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.5	1.6	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.6	1.6	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.6	1.6	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.7	1.7	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.7	1.7	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.7	1.8	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.8	1.8	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.8	1.8	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.8	1.9	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.8	1.9	03:15
03:20	<0.05	<0.05	0.21	0.64	0.25	0.77	<0.05	<0.05	<0.05	<0.05	0.19	0.58	25	25	03:20
03:25	<0.05	<0.05	0.69	2.0	0.83	2.5	<0.05	<0.05	<0.05	<0.05	0.63	1.9	81	83	03:25
03:30	<0.05	<0.05	1.6	4.9	1.9	5.9	<0.05	<0.05	<0.05	0.05	1.4	4.4	190	190	03:30
03:35	<0.05	0.06	3.1	9.5	3.8	11	<0.05	<0.05	0.08	0.11	2.9	8.7	370	380	03:35

WBN737 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 22 Unit 2 North Steam Vault		Location 23 Unit 2 North Steam Vault		Location 24		Location 25		Location 26		Location 27		Location 28		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	0.19	0.58	0.33	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	0.63	1.9	1.0	3.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	1.4	4.4	2.5	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	2.9	8.7	5.0	15	<0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:35

Time (Min)	-A- 0-135 CR ARM	-B- 0-105 CR CAM	-C- 0-12 757 CAM	-D- 1-1 757 ARM	-E- 1-2 RxAirLok	-F- 2-1 757 ARM	2-2 RxAirLok	-H- 0-103 FuelPool	-J- 0-102 FuelPool
	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr
05:45	1.0E-1	1.0E+1	OffHigh	2.4E+1a	9.8E+0	2.5E+1a	4.0E+0	1.3E+1	1.3E+1
05:50	1.0E-1	1.0E+1	OffHigh	2.3E+1a	9.7E+0	2.5E+1a	4.2E+0	1.3E+1	1.3E+1
05:55	1.0E-1	1.0E+1	OffHigh	2.3E+1a	9.5E+0	2.4E+1a	4.3E+0	1.3E+1	1.3E+1
06:00	1.0E-1	1.0E+1	OffHigh	2.2E+1a	9.3E+0	2.4E+1a	4.4E+0	1.2E+1	1.3E+1
06:05	1.0E-1	1.0E+1	OffHigh	2.2E+1a	9.0E+0	2.3E+1a	4.5E+0	1.2E+1	1.2E+1
06:10	1.0E-1	1.0E+1	OffHigh	2.1E+1a	8.7E+0	2.2E+1a	4.6E+0	1.2E+1	1.2E+1
06:15	1.0E-1	1.0E+1	OffHigh	2.0E+1a	8.5E+0	2.1E+1a	4.7E+0	1.1E+1	1.2E+1
06:20	1.0E-1	1.0E+1	OffHigh	2.0E+1a	8.2E+0	2.1E+1a	4.8E+0	1.1E+1	1.1E+1
06:25	1.0E-1	1.0E+1	OffHigh	1.9E+1a	8.0E+0	2.0E+1a	4.8E+0	1.0E+1	1.1E+1
06:30	1.0E-1	1.0E+1	OffHigh	1.9E+1a	7.7E+0	1.9E+1a	4.9E+0	1.0E+1	1.1E+1
06:40	1.0E-1	1.0E+1	OffHigh	1.7E+1a	7.3E+0	1.8E+1a	4.9E+0	9.9E+0	1.0E+1
06:50	1.0E-1	1.0E+1	OffHigh	1.6E+1a	6.8E+0	1.7E+1a	4.9E+0	9.3E+0	9.7E+0
07:00	1.0E-1	1.0E+1	OffHigh	1.5E+1a	6.4E+0	1.6E+1a	4.8E+0	8.8E+0	9.1E+0
07:10	1.0E-1	1.0E+1	OffHigh	1.4E+1a	6.1E+0	1.5E+1a	4.8E+0	8.2E+0	8.6E+0
07:20	1.0E-1	1.0E+1	OffHigh	1.4E+1a	5.7E+0	1.4E+1a	4.7E+0	7.8E+0	8.1E+0
07:30	1.0E-1	1.0E+1	OffHigh	1.3E+1a	5.4E+0	1.3E+1a	4.6E+0	7.3E+0	7.6E+0
07:40	1.0E-1	1.0E+1	OffHigh	1.2E+1a	5.1E+0	1.3E+1a	4.5E+0	6.9E+0	7.1E+0
07:50	1.0E-1	1.0E+1	OffHigh	1.1E+1a	4.8E+0	1.2E+1a	4.4E+0	6.5E+0	6.7E+0
08:00	1.0E-1	1.0E+1	OffHigh	1.1E+1a	4.5E+0	1.1E+1a	4.2E+0	6.1E+0	6.3E+0





757 08-04-1993 15:10:03 wbn93ge

EP Map Points:16, 17, 18
Data Location: EGTS Room

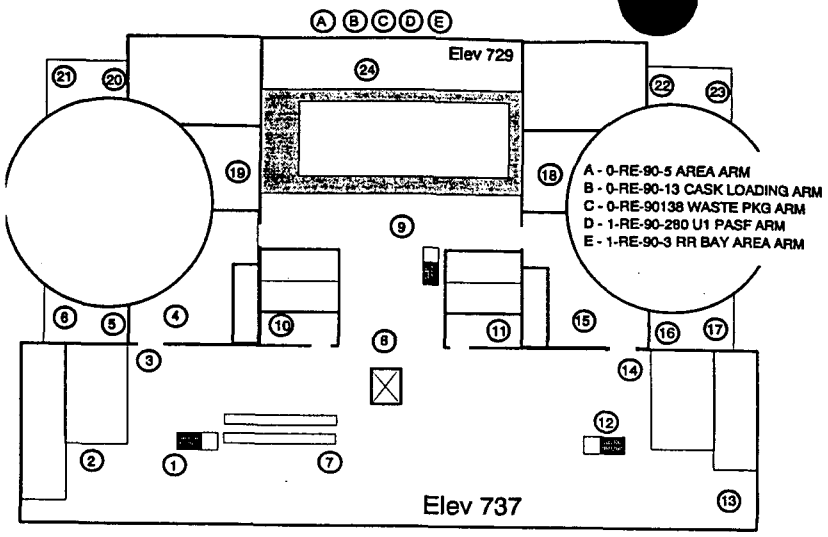
Watts Bar Nuclear Plant
EP Map Points:7,8,9,10,11,12,13,14,15
Data Location: Main Aux 757 Elev

EP Map Points:1, 2, 3, 4, 5, 6, ;
Data Location: Board Rooms/OSC

WBN757 08-04-1993 15:10:03 wbn93ge
EP Map Points:19, 20, 21
Data Location: Control Room/TSC

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	OffHigh	6.2	OffHigh	810	0.44	OffHigh	16	OffHigh	1700	1.0	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
05:50	OffHigh	6.6	OffHigh	850	0.45	OffHigh	17	OffHigh	1700	1.0	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
05:55	OffHigh	7.1	OffHigh	870	0.46	OffHigh	17	OffHigh	1700	0.99	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:00	OffHigh	7.5	OffHigh	900	0.47	OffHigh	17	OffHigh	1600	0.95	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:05	OffHigh	7.8	OffHigh	920	0.47	OffHigh	17	OffHigh	1500	0.89	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:10	OffHigh	8.2	OffHigh	930	0.47	OffHigh	17	OffHigh	1500	0.85	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:15	OffHigh	8.5	OffHigh	940	0.47	OffHigh	17	OffHigh	1400	0.80	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:20	OffHigh	8.8	OffHigh	950	0.47	OffHigh	17	OffHigh	1400	0.76	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:25	OffHigh	9.0	OffHigh	950	0.47	OffHigh	17	OffHigh	1300	0.72	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:30	OffHigh	9.2	OffHigh	950	0.46	OffHigh	17	OffHigh	1300	0.68	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:40	OffHigh	9.6	OffHigh	940	0.44	OffHigh	16	OffHigh	1200	0.60	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
06:50	OffHigh	9.9	OffHigh	930	0.42	OffHigh	16	OffHigh	1100	0.54	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
07:00	OffHigh	10	OffHigh	910	0.40	OffHigh	15	OffHigh	1000	0.48	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
07:10	OffHigh	10	OffHigh	880	0.38	OffHigh	15	OffHigh	970	0.43	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
07:20	OffHigh	10	OffHigh	850	0.36	OffHigh	14	OffHigh	900	0.38	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
07:30	OffHigh	10	OffHigh	820	0.33	OffHigh	14	OffHigh	830	0.34	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
07:40	OffHigh	9.9	OffHigh	780	0.31	OffHigh	13	OffHigh	760	0.31	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
07:50	OffHigh	9.8	OffHigh	750	0.28	OffHigh	13	OffHigh	700	0.27	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05
08:00	OffHigh	9.6	OffHigh	710	0.26	OffHigh	12	OffHigh	650	0.25	<100	<2.0	<100	<2.0	<100	<2.0	<100	<2.0	<0.05

Time (Min)	-A- 0-5B 737 ARM	-B- 0-13 WastePkg	0- Was	-D- -280 PASF ARM	-E- 1-3 WastePkg
	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+05 mr/hr	1.0E-01 to 1.0E+04 mr/hr
00:00	.	.	.	.	.
00:30	.	.	.	.	.
01:00	.	.	.	.	.
01:30	.	.	.	.	.
01:55	.	.	.	.	.
02:00	.	1.0E+1	1.0E-1	.	1.0E-1
02:05	.	1.0E+1	1.0E-1	.	1.0E-1
02:10	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:15	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:20	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:25	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:30	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:35	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:40	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:45	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:50	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
02:55	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
03:00	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
03:05	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
03:10	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
03:15	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.0E-1
03:20	1.0E-1	3.1E+1	4.5E-1	1.0E-1	4.5E-1
03:25	1.0E-1	1.0E+2	1.4E+0	1.0E-1	1.4E+0
03:30	1.0E-1	2.4E+2	3.4E+0	1.0E-1	3.4E+0
03:35	2.3E-1	4.6E+2	6.7E+0	1.0E-1	6.7E+0



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EP Map Points:4, 5, 6, 19
Data Location: U1 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	280	<2.0	<0.05
02:15	<100	<2.0	840	<2.0	<0.05
02:20	<100	<2.0	1600	<2.0	<0.05
02:25	<100	<2.0	2700	<2.0	<0.05
02:30	<100	<2.0	4000	<2.0	<0.05
02:35	<100	<2.0	5500	<2.0	<0.05
02:40	<100	<2.0	7100	<2.0	<0.05
02:45	<100	<2.0	8900	<2.0	<0.05
02:50	<100	<2.0	10000	<2.0	<0.05
02:55	<100	<2.0	12000	<2.0	<0.05
03:00	<100	<2.0	14000	<2.0	<0.05
03:05	<100	<2.0	16000	<2.0	<0.05
03:10	100	<2.0	19000	<2.0	<0.05
03:15	120	<2.0	21000	2.1	<0.05
03:20	130	<2.0	23000	2.3	<0.05
03:25	150	<2.0	26000	2.6	<0.05
03:30	180	<2.0	31000	3.1	<0.05
03:35	220	<2.0	45000	4.5	<0.05

Watts Bar Nuclear Plant

EP Map Points:15, 16, 17, 18
Data Location: U2 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	100	<2.0	<0.05
02:15	<100	<2.0	320	<2.0	<0.05
02:20	<100	<2.0	650	<2.0	<0.05
02:25	<100	<2.0	1000	<2.0	<0.05
02:30	<100	<2.0	1600	<2.0	<0.05
02:35	<100	<2.0	2200	<2.0	<0.05
02:40	<100	<2.0	2900	<2.0	<0.05
02:45	<100	<2.0	3700	<2.0	<0.05
02:50	<100	<2.0	4600	<2.0	<0.05
02:55	<100	<2.0	5600	<2.0	<0.05
03:00	<100	<2.0	6500	<2.0	<0.05
03:05	<100	<2.0	7600	<2.0	<0.05
03:10	<100	<2.0	8700	<2.0	<0.05
03:15	<100	<2.0	9800	<2.0	<0.05
03:20	<100	<2.0	10000	<2.0	<0.05
03:25	<100	<2.0	12000	<2.0	<0.05
03:30	<100	<2.0	14000	<2.0	<0.05
03:35	100	<2.0	20000	2.0	<0.05

EP Map Points:10, 11, 20, 21, 22,
Data Location: Rooms off Main Ele

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
00:00	<100	<2.0	<100	<2.0
00:30	<100	<2.0	<100	<2.0
01:00	<100	<2.0	<100	<2.0
01:30	<100	<2.0	<100	<2.0
01:55	<100	<2.0	<100	<2.0
02:00	<100	<2.0	<100	<2.0
02:05	<100	<2.0	<100	<2.0
02:10	<100	<2.0	<100	<2.0
02:15	<100	<2.0	140	<2.0
02:20	<100	<2.0	290	<2.0
02:25	<100	<2.0	490	<2.0
02:30	<100	<2.0	740	<2.0
02:35	<100	<2.0	1000	<2.0
02:40	<100	<2.0	1300	<2.0
02:45	<100	<2.0	1700	<2.0
02:50	<100	<2.0	2100	<2.0
02:55	<100	<2.0	2600	<2.0
03:00	<100	<2.0	3100	<2.0
03:05	<100	<2.0	3600	<2.0
03:10	<100	<2.0	4100	<2.0
03:15	<100	<2.0	4700	<2.0
03:20	<100	<2.0	5300	<2.0
03:25	<100	<2.0	5900	<2.0
03:30	<100	<2.0	7100	<2.0
03:35	<100	<2.0	9700	<2.0

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EP Map Points:1,2,3,7,8,9,12,13,14
Data Location: Main 737 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	3400	<2.0	<0.05
02:15	<100	<2.0	7100	<2.0	<0.05
02:20	<100	<2.0	10000	<2.0	<0.05
02:25	<100	<2.0	14000	<2.0	<0.05
02:30	<100	<2.0	18000	<2.0	<0.05
02:35	<100	<2.0	22000	2.2	<0.05
02:40	<100	<2.0	25000	2.5	<0.05
02:45	<100	<2.0	29000	2.9	<0.05
02:50	170	<2.0	33000	3.3	<0.05
02:55	200	<2.0	36000	3.6	<0.05
03:00	230	<2.0	39000	4.0	<0.05
03:05	260	<2.0	43000	4.3	<0.05
03:10	290	<2.0	46000	4.6	<0.05
03:15	320	<2.0	49000	4.9	<0.05
03:20	350	<2.0	OffHigh	5.2	<0.05
03:25	390	<2.0	OffHigh	6.1	<0.05
03:30	480	<2.0	OffHigh	9.3	<0.05
03:35	720	<2.0	OffHigh	18	<0.05

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EP Map Points:
Data Location: Not Used

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	130	<2.0	OffHigh	8.4	<0.05
02:10	250	<2.0	OffHigh	9.1	<0.05
02:15	370	<2.0	OffHigh	9.7	<0.05
02:20	470	<2.0	OffHigh	10	<0.05
02:25	570	<2.0	OffHigh	10	<0.05
02:30	650	<2.0	OffHigh	11	<0.05
02:35	730	<2.0	OffHigh	11	<0.05
02:40	810	<2.0	OffHigh	12	<0.05
02:45	880	<2.0	OffHigh	12	<0.05
02:50	950	<2.0	OffHigh	13	<0.05
02:55	1000	<2.0	OffHigh	13	<0.05
03:00	1000	<2.0	OffHigh	13	<0.05
03:05	1100	<2.0	OffHigh	14	<0.05
03:10	1100	<2.0	OffHigh	14	<0.05
03:15	1200	<2.0	OffHigh	14	<0.05
03:20	1200	<2.0	OffHigh	15	<0.05
03:25	1300	<2.0	OffHigh	15	<0.05
03:30	1800	<2.0	OffHigh	33	0.15
03:35	3600	<2.0	OffHigh	90	0.40
	7700	<2.0	OffHigh	210	0.84

EP Map Points:24
Data Location: Main 729 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	540	<2.0	<0.05
02:20	<100	<2.0	1100	<2.0	<0.05
02:25	<100	<2.0	1700	<2.0	<0.05
02:30	<100	<2.0	2300	<2.0	<0.05
02:35	<100	<2.0	3000	<2.0	<0.05
02:40	<100	<2.0	3700	<2.0	<0.05
02:45	<100	<2.0	4400	<2.0	<0.05
02:50	<100	<2.0	5100	<2.0	<0.05
02:55	<100	<2.0	5800	<2.0	<0.05
03:00	<100	<2.0	6500	<2.0	<0.05
03:05	<100	<2.0	7200	<2.0	<0.05
03:10	<100	<2.0	7800	<2.0	<0.05
03:15	<100	<2.0	8500	<2.0	<0.05
03:20	<100	<2.0	9200	<2.0	<0.05
03:25	<100	<2.0	9800	<2.0	<0.05
03:30	<100	<2.0	11000	<2.0	<0.05
03:35	<100	<2.0	16000	<2.0	<0.05
	120	<2.0	31000	3.1	<0.05

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Time	Location 1 Near stairs at west end AB737		Location 2 Outside Hot Instru Shop		Location 3 Outside U-1 Penetration Rm		Location 4 Unit 1 Penetration Rm		Location 5 Unit 1 South Steam Vault		Location 6 Unit 1 South Steam Vault		Location 7 Component Cooling Hx		Location 8 Near Elevator		Location 9 Spent Fuel Pool Heat Exchanger		Location 10 U-1 Letdown Hx		Location 11 U-2 Letdown Hx		Location 12 Near Stairs on West End AB737		Location 13 Behind Heating & Ventilatn Rm		Location 14 Outside U-2 Penetration Rm		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	1.3	4.1	0.49	1.4	0.48	1.4	0.12	0.37	4.9	14	5.9	17	1.2	3.7	0.77	2.3	0.97	2.9	0.10	0.30	0.10	0.30	1.0	3.1	0.88	2.6	0.84	2.5	03:40
03:45	2.5	7.6	0.89	2.6	0.87	2.6	0.24	0.74	6.5	19	7.9	23	2.2	6.7	1.4	4.2	1.7	5.3	0.18	0.55	0.18	0.55	1.8	5.6	1.6	4.8	1.5	4.6	03:45
03:50	4.0	12	1.4	4.2	1.3	4.1	0.43	1.3	8.1	24	9.8	29	3.5	10	2.2	6.7	2.8	8.4	0.29	0.87	0.29	0.87	3.0	9.0	2.5	7.6	2.4	7.3	03:50
03:55	5.7	17	2.0	6.0	2.0	5.9	0.69	2.0	9.5	28	11	34	5.1	15	3.2	9.6	4.0	12	0.41	1.2	0.41	1.2	4.3	12	3.6	10	3.5	10	03:55
04:00	7.8	23	2.7	8.2	2.7	8.0	1.0	3.1	10	32	13	39	6.9	20	4.3	13	5.4	16	0.56	1.6	0.56	1.6	5.8	17	4.9	14	4.7	14	04:00
04:05	10	30	3.5	10	3.4	10	1.4	4.4	12	36	14	44	9.0	26	5.6	16	7.0	21	0.73	2.1	0.73	2.1	7.5	22	6.3	19	6.1	18	04:05
04:10	12	37	4.4	13	4.3	13	1.9	5.9	13	40	16	48	11	33	7.0	21	8.8	26	0.91	2.7	0.91	2.7	9.4	28	7.9	23	7.6	22	04:10
04:15	15	45	5.3	16	5.2	15	2.6	7.7	14	43	17	52	13	40	8.5	25	10	31	1.1	3.3	1.1	3.3	11	34	9.6	28	9.2	27	04:15
04:20	18	54	6.3	18	6.2	18	3.3	9.8	15	46	18	56	16	48	10	30	12	37	1.3	3.9	1.3	3.9	13	40	11	34	10	32	04:20
04:25	20	62	7.3	21	7.2	21	4.0	12	16	49	20	59	18	55	11	34	14	43	1.5	4.5	1.5	4.5	15	46	13	39	12	37	04:25
04:30	23	71	8.3	25	8.2	24	4.9	14	17	52	21	62	21	63	13	39	16	50	1.7	5.1	1.7	5.1	17	53	15	45	14	43	04:30
04:35	26	80	9.4	28	9.3	27	5.8	17	18	54	22	65	24	71	15	44	18	56	1.9	5.8	1.9	5.8	20	60	17	50	16	48	04:35
04:40	30	89	10	31	10	30	6.9	20	19	56	23	68	26	79	16	50	21	62	2.1	6.4	2.1	6.4	22	67	18	56	18	54	04:40
04:45	33	99	11	34	11	34	7.9	23	19	58	23	71	29	88	18	55	23	69	2.4	7.1	2.4	7.1	24	74	20	62	20	60	04:45
04:50	36	100	12	37	12	37	9.1	27	19	56	23	68	32	96	20	60	25	75	2.6	7.8	2.6	7.8	27	80	22	68	22	65	04:50
04:55	39	110	13	40	13	40	10	30	18	54	22	65	34	100	21	65	27	81	2.8	8.4	2.8	8.4	29	87	24	73	23	70	04:55
05:00	41	120	14	43	14	42	11	34	17	51	21	62	36	110	23	69	29	86	3.0	8.9	3.0	8.9	31	92	26	78	25	75	05:00
05:05	43	120	15	45	15	44	12	37	16	48	19	58	38	110	24	72	30	91	3.1	9.4	3.1	9.4	32	97	27	82	26	78	05:05
05:10	45	130	15	47	15	46	13	41	15	44	18	54	40	120	25	75	31	94	3.2	9.7	3.2	9.7	33	100	28	85	27	82	05:10
05:15	46	130	16	48	16	47	14	44	13	41	16	49	41	120	26	77	32	97	3.3	10	3.3	10	34	100	29	87	28	84	05:15
05:20	47	140	16	49	16	48	16	47	12	37	15	44	42	120	26	79	33	99	3.4	10	3.4	10	35	100	30	89	28	86	05:20
05:25	48	140	16	50	16	49	17	50	11	32	13	39	42	120	27	80	33	100	3.4	10	3.4	10	36	100	30	90	29	87	05:25
05:30	48	140	17	50	16	49	17	53	9.6	28	11	34	43	120	27	80	33	100	3.5	10	3.5	10	36	100	30	91	29	87	05:30
05:35	48	140	16	50	16	49	18	56	8.1	24	9.9	29	43	120	27	80	33	100	3.5	10	3.5	10	36	100	30	90	29	87	05:35
05:40	47	140	16	50	16	49	19	58	6.6	19	8.1	23	42	120	26	79	33	99	3.4	10	3.4	10	35	100	30	90	29	86	05:40

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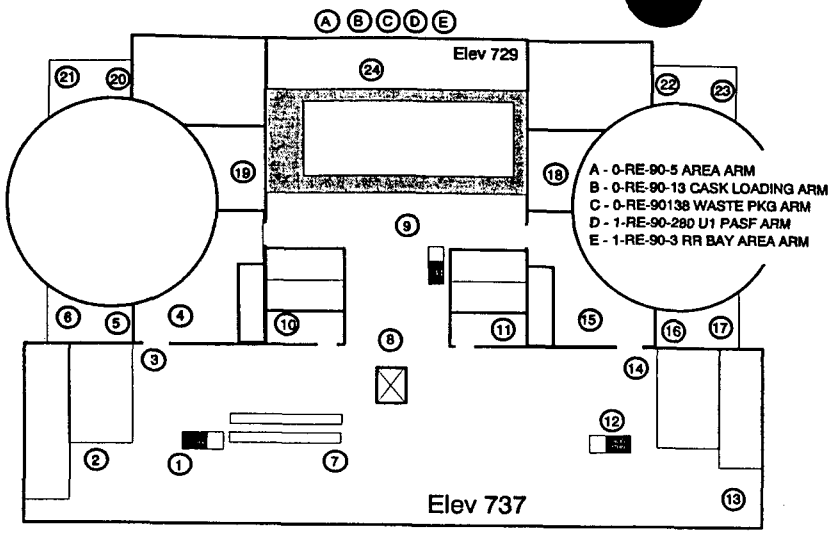
Time	Location 15 Unit 2 Penetration Rm		Location 16 Unit 2 South Steam Vault		Location 17 Unit 2 South Steam Vault		Location 18 Unit 2 ABGTS		Location 19 Unit 1 ABGTS		Location 20 Unit 1 North Steam Vault		Location 21 Unit 1 North Steam Vault		Location 22 Unit 2 North Steam Vault		Location 23 Unit 2 North Steam Vault		Location 24		Location 25		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	0.05	0.14	4.9	14	5.9	17	<0.05	<0.05	0.16	0.23	4.5	13	570	590	4.5	13	7.7	23	0.07	0.22	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:40
03:45	0.10	0.28	6.5	19	7.9	23	<0.05	0.07	0.27	0.40	6.0	18	770	790	6.0	18	10	31	0.13	0.40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:45
03:50	0.18	0.49	8.1	24	9.8	29	<0.05	0.13	0.40	0.63	7.4	22	950	970	7.4	22	12	38	0.21	0.64	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:50
03:55	0.28	0.80	9.5	28	11	34	0.07	0.22	0.54	0.91	8.7	26	1100	1100	8.7	26	15	45	0.31	0.94	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:55
04:00	0.42	1.2	10	32	13	39	0.11	0.33	0.71	1.2	9.9	29	1200	1300	9.9	29	17	51	0.43	1.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:00
04:05	0.60	1.7	12	36	14	44	0.16	0.48	0.90	1.6	11	33	1400	1400	11	33	19	57	0.56	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:05
04:10	0.82	2.3	13	40	16	48	0.21	0.65	1.1	2.1	12	36	1500	1600	12	36	21	63	0.70	2.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:10
04:15	1.0	3.0	14	43	17	52	0.28	0.86	1.3	2.7	13	39	1700	1700	13	39	23	68	0.86	2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:15
04:20	1.3	3.9	15	46	18	56	0.37	1.1	1.6	3.3	14	42	1800	1800	14	42	24	73	1.0	3.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:20
04:25	1.7	4.9	16	49	20	59	0.46	1.3	1.8	4.0	15	45	1900	1900	15	45	26	78	1.2	3.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:25
04:30	2.0	5.9	17	52	21	62	0.56	1.6	2.1	4.7	16	47	2000	2000	16	47	27	82	1.3	4.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:30
04:35	2.5	7.1	18	54	22	65	0.68	2.0	2.4	5.5	16	50	2100	2100	16	50	28	86	1.5	4.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:35
04:40	2.9	8.5	19	56	23	68	0.81	2.4	2.8	6.4	17	52	2200	2200	17	52	30	89	1.7	5.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:40
04:45	3.4	9.9	19	58	23	71	0.94	2.8	3.1	7.3	18	53	2300	2300	18	53	31	93	1.9	5.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:45
04:50	3.9	11	19	56	23	68	1.0	3.2	3.5	8.3	17	52	2300	2400	17	52	30	89	2.2	6.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:50
04:55	4.5	13	18	54	22	65	1.2	3.7	3.8	9.2	16	49	2400	2500	16	49	28	85	2.3	7.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:55
05:00	5.0	14	17	51	21	62	1.4	4.2	4.1	10	15	47	2400	2580	15	47	27	81	2.5	7.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:00
05:05	5.6	16	16	48	19	58	1.5	4.7	4.4	11	14	44	2500	2600	14	44	25	76	2.7	8.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:05
05:10	6.2	18	15	44	18	54	1.7	5.2	4.7	12	13	41	2500	2600	13	41	23	70	2.8	8.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:10
05:15	6.8	19	13	41	16	49	1.9	5.6	5.0	12	12	37	2600	2600	12	37	21	64	3.0	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:15
05:20	7.3	21	12	37	15	44	2.0	6.1	5.3	13	11	33	2600	2700	11	33	19	58	3.1	9.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:20
05:25	7.9	23	11	32	13	39	2.2	6.6	5.5	14	10	30	2700	2700	10	30	17	51	3.2	9.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:25
05:30	8.4	24	9.6	28	11	34	2.3	7.1	5.7	15	8.8	26	2700	2700	8.8	26	15	45	3.3	9.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:30
05:35	9.0	26	8.1	24	9.9	29	2.5	7.5	5.9	15	7.4	21	2700	2700	7.4	21	12	37	3.3	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:35
05:40	9.4	27	6.6	19	8.1	23	2.6	7.9	6.0	16	6.0	17	2700	2800	6.0	17	10	30	3.4	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:40

Time (Min)	-A- 0-58 737 ARM	-B- 0-13 WastePkg	-C- 0-138 WastePkg	-D- 280 PASF ARM	-E- 1-3 WastePkg
	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+05 mr/hr	1.0E-01 to 1.0E+04 mr/hr
03:40	5.1E-1	7.2E+2a	1.0E+1a	1.0E-1	1.0E+1
03:45	9.2E-1	9.6E+2a	1.3E+1a	1.0E-1	1.3E+1
03:50	1.4E+0	1.1E+3a	1.7E+1a	1.0E-1	1.7E+1
03:55	2.1E+0	1.4E+3a	2.0E+1a	1.0E-1	2.0E+1
04:00	2.8E+0	1.5E+3a	2.2E+1a	1.0E-1	2.2E+1
04:05	3.6E+0	1.7E+3a	2.5E+1a	1.2E-1	2.5E+1
04:10	4.6E+0	1.9E+3a	2.8E+1a	1.5E-1	2.8E+1
04:15	5.5E+0	2.1E+3a	3.0E+1a	1.9E-1	3.0E+1
04:20	6.5E+0	2.2E+3a	3.2E+1a	2.3E-1	3.2E+1
04:25	7.6E+0	2.4E+3a	3.5E+1a	2.7E-1	3.5E+1
04:30	8.7E+0	2.5E+3a	3.6E+1a	3.1E-1	3.6E+1
04:35	9.8E+0	2.6E+3a	3.8E+1a	3.5E-1	3.8E+1
04:40	1.1E+1a	2.7E+3a	4.0E+1a	4.0E-1	4.0E+1
04:45	1.2E+1a	2.8E+3a	4.1E+1a	4.4E-1	4.1E+1
04:50	1.3E+1a	2.7E+3a	4.0E+1a	4.9E-1	4.0E+1
04:55	1.4E+1a	2.6E+3a	3.8E+1a	5.4E-1	3.8E+1
05:00	1.5E+1a	2.5E+3a	3.6E+1a	5.8E-1	3.6E+1
05:05	1.5E+1a	2.3E+3a	3.4E+1a	6.1E-1	3.4E+1
05:10	1.6E+1a	2.2E+3a	3.1E+1a	6.5E-1	3.1E+1
05:15	1.7E+1a	2.0E+3a	2.9E+1a	6.8E-1	2.9E+1
05:20	1.7E+1a	1.8E+3a	2.6E+1a	7.0E-1	2.6E+1
05:25	1.7E+1a	1.6E+3a	2.3E+1a	7.3E-1	2.3E+1
05:30	1.7E+1a	1.4E+3a	2.0E+1a	7.4E-1	2.0E+1
05:35	1.7E+1a	1.1E+3a	1.7E+1a	7.6E-1	1.7E+1
05:40	1.7E+1a	9.6E+2a	1.3E+1a	7.7E-1	1.3E+1



W737 08-04-1993 15:08:58 wbn93ge Watts Bar Nuclear Plant

EP Map Points:4, 5, 6, 19
Data Location: U1 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
03:40	310	<2.0	OffHigh	7.6	<0.05
03:45	500	<2.0	OffHigh	14	<0.05
03:50	840	<2.0	OffHigh	25	<0.05
03:55	1400	<2.0	OffHigh	42	<0.05
04:00	2300	<2.0	OffHigh	67	0.05
04:05	3600	<2.0	OffHigh	100	0.08
04:10	5400	<2.0	OffHigh	140	0.11
04:15	7800	<2.0	OffHigh	190	0.14
04:20	10000	<2.0	OffHigh	250	0.18
04:25	14000	<2.0	OffHigh	320	0.22
04:30	18000	<2.0	OffHigh	400	0.27
04:35	24000	2.4	OffHigh	490	0.32
04:40	29000	2.9	OffHigh	580	0.37
04:45	36000	3.6	OffHigh	680	0.43
04:50	43000	4.3	OffHigh	790	0.49
04:55	OffHigh	5.1	OffHigh	900	0.55
05:00	OffHigh	6.0	OffHigh	1000	0.62
05:05	OffHigh	6.9	OffHigh	1100	0.68
05:10	OffHigh	7.8	OffHigh	1200	0.73
05:15	OffHigh	8.8	OffHigh	1300	0.79
05:20	OffHigh	9.8	OffHigh	1400	0.84
05:25	OffHigh	10	OffHigh	1500	0.88
05:30	OffHigh	11	OffHigh	1600	0.92
05:35	OffHigh	12	OffHigh	1600	0.96
05:40	OffHigh	13	OffHigh	1700	0.98

Watts Bar Nuclear Plant

EP Map Points:15, 16, 17, 18
Data Location: U2 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDGE GM MR/HR
03:40	140	<2.0	32000	3.2	<0.05
03:45	210	<2.0	OffHigh	5.8	<0.05
03:50	350	<2.0	OffHigh	10	<0.05
03:55	590	<2.0	OffHigh	17	<0.05
04:00	960	<2.0	OffHigh	27	<0.05
04:05	1500	<2.0	OffHigh	42	<0.05
04:10	2200	<2.0	OffHigh	60	<0.05
04:15	3200	<2.0	OffHigh	82	0.06
04:20	4500	<2.0	OffHigh	100	0.07
04:25	6100	<2.0	OffHigh	140	0.09
04:30	8100	<2.0	OffHigh	170	0.11
04:35	10000	<2.0	OffHigh	210	0.14
04:40	13000	<2.0	OffHigh	260	0.16
04:45	16000	<2.0	OffHigh	300	0.19
04:50	19000	<2.0	OffHigh	360	0.22
04:55	23000	2.3	OffHigh	410	0.25
05:00	27000	2.7	OffHigh	470	0.28
05:05	31000	3.1	OffHigh	530	0.31
05:10	36000	3.6	OffHigh	580	0.34
05:15	41000	4.1	OffHigh	640	0.37
05:20	46000	4.6	OffHigh	700	0.40
05:25	OffHigh	5.1	OffHigh	750	0.42
05:30	OffHigh	5.6	OffHigh	800	0.45
05:35	OffHigh	6.2	OffHigh	850	0.47
05:40	OffHigh	6.7	OffHigh	900	0.49

EP Map Points:10, 11, 20, 21, 22
Data Location: Rooms off Main El

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
03:40	<100	<2.0	15000	<2.0
03:45	100	<2.0	27000	2.7
03:50	160	<2.0	48000	4.8
03:55	270	<2.0	OffHigh	8.1
04:00	440	<2.0	OffHigh	12
04:05	700	<2.0	OffHigh	19
04:10	1000	<2.0	OffHigh	27
04:15	1500	<2.0	OffHigh	38
04:20	2100	<2.0	OffHigh	51
04:25	2800	<2.0	OffHigh	66
04:30	3700	<2.0	OffHigh	83
04:35	4800	<2.0	OffHigh	100
04:40	6100	<2.0	OffHigh	120
04:45	7500	<2.0	OffHigh	140
04:50	9200	<2.0	OffHigh	170
04:55	11000	<2.0	OffHigh	200
05:00	13000	<2.0	OffHigh	220
05:05	15000	<2.0	OffHigh	250
05:10	17000	<2.0	OffHigh	280
05:15	19000	<2.0	OffHigh	310
05:20	22000	2.2	OffHigh	340
05:25	25000	2.5	OffHigh	370
05:30	27000	2.7	OffHigh	400
05:35	30000	3.0	OffHigh	420
05:40	33000	3.3	OffHigh	450

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EP Map Points:1,2,3,7,8,9,12,13,14
Data Location: Main 737 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
03:40	1200	<2.0	OffHigh	37	<0.05
03:45	2300	<2.0	OffHigh	73	0.09
03:50	4200	<2.0	OffHigh	120	0.15
03:55	7000	<2.0	OffHigh	200	0.21
04:00	11000	<2.0	OffHigh	300	0.30
04:05	16000	<2.0	OffHigh	410	0.38
04:10	23000	2.3	OffHigh	540	0.48
04:15	31000	3.1	OffHigh	690	0.58
04:20	40000	4.0	OffHigh	850	0.69
04:25	OffHigh	5.1	OffHigh	1000	0.80
04:30	OffHigh	6.3	OffHigh	1200	0.91
04:35	OffHigh	7.7	OffHigh	1400	1.0
04:40	OffHigh	9.1	OffHigh	1500	1.1
04:45	OffHigh	10	OffHigh	1700	1.2
04:50	OffHigh	12	OffHigh	1900	1.3
04:55	OffHigh	14	OffHigh	2100	1.4
05:00	OffHigh	15	OffHigh	2300	1.5
05:05	OffHigh	17	OffHigh	2400	1.6
05:10	OffHigh	19	OffHigh	2500	1.7
05:15	OffHigh	20	OffHigh	2600	1.7
05:20	OffHigh	21	OffHigh	2700	1.7
05:25	OffHigh	23	OffHigh	2700	1.7
05:30	OffHigh	24	OffHigh	2700	1.7
05:35	OffHigh	25	OffHigh	2700	1.7
05:40	OffHigh	26	OffHigh	2700	1.7

EP Map Points:
Data Location: Not Used

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
03:40	15000	<2.0	OffHigh	440	1.3
03:45	28000	2.8	OffHigh	780	1.8
03:50	46000	4.6	OffHigh	1100	2.3
03:55	OffHigh	7.0	OffHigh	1600	2.7
04:00	OffHigh	9.8	OffHigh	2100	3.2
04:05	OffHigh	13	OffHigh	2600	3.6
04:10	OffHigh	16	OffHigh	3100	4.0
04:15	OffHigh	20	OffHigh	3700	4.3
04:20	OffHigh	25	OffHigh	4200	4.7
04:25	OffHigh	29	OffHigh	4700	5.0
04:30	OffHigh	34	OffHigh	5200	5.3
04:35	OffHigh	39	OffHigh	5700	5.6
04:40	OffHigh	44	OffHigh	6100	5.9
04:45	OffHigh	48	OffHigh	6500	6.1
04:50	OffHigh	53	OffHigh	6500	6.0
04:55	OffHigh	56	OffHigh	6300	5.7
05:00	OffHigh	58	OffHigh	6100	5.5
05:05	OffHigh	60	OffHigh	5800	5.2
05:10	OffHigh	61	OffHigh	5500	4.8
05:15	OffHigh	61	OffHigh	5100	4.5
05:20	OffHigh	61	OffHigh	4600	4.0
05:25	OffHigh	60	OffHigh	4100	3.6
05:30	OffHigh	58	OffHigh	3600	3.2
05:35	OffHigh	56	OffHigh	3100	2.7
05:40	OffHigh	53	OffHigh	2500	2.2

EP Map Points:24
Data Location: Main 729 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
03:40	210	<2.0	OffHigh	6.3	<0.05
03:45	390	<2.0	OffHigh	12	<0.05
03:50	690	<2.0	OffHigh	21	<0.05
03:55	1100	<2.0	OffHigh	33	<0.05
04:00	1800	<2.0	OffHigh	50	<0.05
04:05	2700	<2.0	OffHigh	69	0.06
04:10	3800	<2.0	OffHigh	92	0.08
04:15	5200	<2.0	OffHigh	110	0.09
04:20	6900	<2.0	OffHigh	140	0.11
04:25	8800	<2.0	OffHigh	180	0.13
04:30	11000	<2.0	OffHigh	210	0.15
04:35	13000	<2.0	OffHigh	240	0.18
04:40	16000	<2.0	OffHigh	280	0.20
04:45	19000	<2.0	OffHigh	320	0.22
04:50	22000	2.2	OffHigh	360	0.24
04:55	25000	2.5	OffHigh	400	0.27
05:00	28000	2.8	OffHigh	430	0.28
05:05	31000	3.1	OffHigh	460	0.30
05:10	35000	3.5	OffHigh	490	0.32
05:15	38000	3.8	OffHigh	520	0.33
05:20	41000	4.1	OffHigh	540	0.34
05:25	44000	4.4	OffHigh	560	0.34
05:30	47000	4.7	OffHigh	570	0.35
05:35	OffHigh	5.0	OffHigh	580	0.35
05:40	OffHigh	5.2	OffHigh	590	0.35

WBN737 08-04-1993 15:10:03 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 Near stairs at west end AB737		Location 2 Outside Hot Instru Shop		Location 3 Outside U-1 Penetration Rm		Location 4 Unit 1 Penetration Rm		Location 5 Unit 1 South Steam Vault		Location 6 Unit 1 South Steam Vault		Location 7 Component Cooling Hx		Location 8 Near Elevator		Location 9 Spent Fuel Pool Heat Exchanger		Location 10 U-1 Letdown Hx		Location 11 U-2 Letdown Hx		Location 12 Near Stairs on West End AB737		Location 13 Behind Heating & Ventilatn Rm		Location 14 Outside U-2 Penetration Rm		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	47	140	16	49	16	48	20	60	5.0	14	6.2	17	41	120	26	78	33	98	3.4	10	3.4	10	35	100	29	88	28	85	05:45
05:50	45	130	16	47	15	47	20	61	3.4	9.9	4.2	12	40	120	25	76	32	95	3.3	9.8	3.3	9.8	34	100	28	86	27	83	05:50
05:55	44	130	15	46	15	45	21	62	1.8	5.0	2.2	6.2	39	110	24	73	31	92	3.2	9.5	3.2	9.5	33	98	28	83	27	80	05:55
06:00	42	120	14	44	14	43	21	63	0.15	0.15	0.28	0.28	37	110	23	70	29	88	3.0	9.1	3.0	9.1	31	94	26	80	26	77	06:00
06:05	40	120	14	42	14	41	21	63	0.13	0.13	0.25	0.25	36	100	22	67	28	84	2.9	8.7	2.9	8.7	30	90	25	76	24	73	06:05
06:10	38	110	13	40	13	39	21	63	0.12	0.12	0.23	0.23	34	100	21	63	27	80	2.7	8.2	2.7	8.2	28	85	24	72	23	69	06:10
06:15	36	100	12	38	12	37	21	63	0.11	0.11	0.21	0.21	32	96	20	60	25	76	2.6	7.8	2.6	7.8	27	81	23	68	22	66	06:15
06:20	34	100	12	36	12	35	21	63	0.10	0.10	0.20	0.20	31	92	19	57	24	72	2.5	7.4	2.5	7.4	26	77	22	65	21	62	06:20
06:25	33	98	11	34	11	34	20	62	0.10	0.10	0.18	0.18	29	87	18	55	23	69	2.4	7.1	2.4	7.1	24	73	20	62	20	59	06:25
06:30	31	93	11	32	11	32	20	61	0.09	0.09	0.17	0.17	28	83	17	52	22	65	2.2	6.7	2.2	6.7	23	69	19	59	19	56	06:30
06:40	28	84	10	29	9.9	29	19	59	0.08	0.08	0.16	0.16	25	75	16	47	20	59	2.0	6.1	2.0	6.1	21	63	18	53	17	51	06:40
06:50	25	76	9.0	26	9.0	26	19	56	0.08	0.08	0.15	0.15	23	68	14	42	18	53	1.8	5.5	1.8	5.5	19	57	16	48	15	46	06:50
07:00	23	69	8.2	24	8.2	24	18	53	0.07	0.07	0.14	0.14	20	61	13	38	16	48	1.7	5.0	1.7	5.0	17	51	14	43	14	42	07:00
07:10	21	62	7.4	22	7.4	21	17	50	0.07	0.07	0.13	0.13	18	56	11	35	14	44	1.5	4.5	1.5	4.5	15	47	13	39	13	38	07:10
07:20	19	57	6.7	20	6.7	19	16	47	0.07	0.07	0.13	0.13	17	50	10	31	13	40	1.4	4.1	1.4	4.1	14	42	12	36	11	34	07:20
07:30	17	51	6.1	18	6.1	17	15	44	0.06	0.06	0.12	0.12	15	46	9.8	29	12	36	1.2	3.7	1.2	3.7	13	38	11	32	10	31	07:30
07:40	15	47	5.5	16	5.6	16	14	41	0.06	0.06	0.12	0.12	14	41	8.9	26	11	33	1.1	3.4	1.1	3.4	11	35	10	29	9.7	28	07:40
07:50	14	42	5.0	15	5.1	14	13	38	0.06	0.06	0.12	0.12	12	38	8.1	23	10	30	1.0	3.1	1.0	3.1	10	32	9.1	27	8.9	26	07:50
08:00	13	38	4.6	13	4.6	13	12	36	0.06	0.06	0.12	0.12	11	34	7.4	21	9.2	27	0.95	2.8	0.95	2.8	9.8	29	8.3	24	8.1	23	08:00

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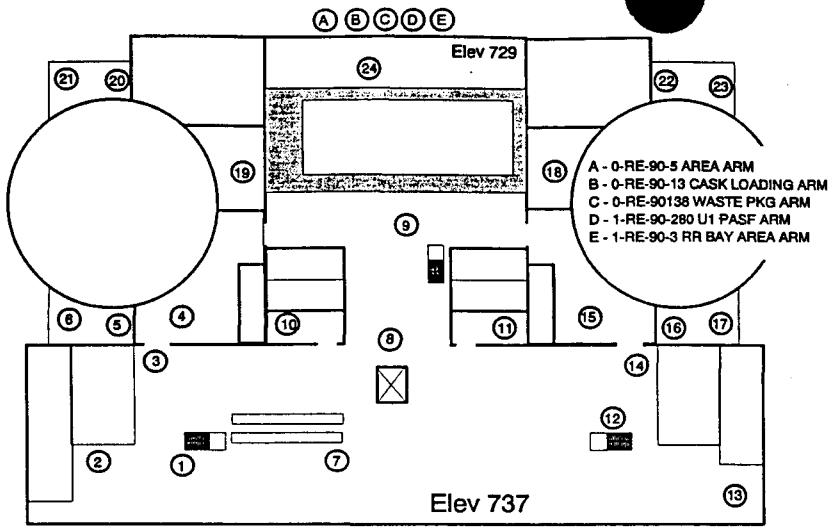
Time	Location 15 Unit 2 Penetration Rm		Location 16 Unit 2 South Steam Vault		Location 17 Unit 2 South Steam Vault		Location 18 Unit 2 ABGTS		Location 19 Unit 1 ABGTS		Location 20 Unit 1 North Steam Vault		Location 21 Unit 1 North Steam Vault		Location 22 Unit 2 North Steam Vault		Location 23 Unit 2 North Steam Vault		Location 24		Location 25		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	9.9	29	5.0	14	6.2	17	2.8	8.3	6.1	16	4.6	13	2800	2800	4.6	13	7.9	23	3.4	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:45
05:50	10	30	3.4	9.9	4.2	12	2.9	8.6	6.2	17	3.1	9.0	2800	2800	3.1	9.0	5.4	15	3.4	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:50
05:55	10	31	1.8	5.0	2.2	6.2	3.0	8.9	6.2	17	1.6	4.6	2800	2800	1.6	4.6	2.8	8.0	3.4	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:55
06:00	10	32	0.15	0.15	0.28	0.28	3.1	9.2	6.2	17	0.12	0.12	2800	2800	0.12	0.12	0.24	0.24	3.3	9.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:00
06:05	11	32	0.13	0.13	0.25	0.25	3.1	9.4	6.2	17	0.11	0.11	2800	2800	0.11	0.11	0.22	0.22	3.3	9.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:05
06:10	11	33	0.12	0.12	0.23	0.23	3.2	9.6	6.2	17	0.10	0.10	2800	2800	0.10	0.10	0.20	0.20	3.2	9.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:10
06:15	11	34	0.11	0.11	0.21	0.21	3.3	9.8	6.1	17	0.09	0.09	2800	2800	0.09	0.09	0.18	0.18	3.1	9.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:15
06:20	11	34	0.10	0.10	0.20	0.20	3.3	9.9	6.1	17	0.09	0.09	2800	2800	0.09	0.09	0.17	0.17	3.1	9.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:20
06:25	11	34	0.10	0.10	0.18	0.18	3.3	10	6.0	16	0.08	0.08	2800	2800	0.08	0.08	0.16	0.16	3.0	9.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:25
06:30	11	34	0.09	0.09	0.17	0.17	3.3	10	5.9	16	0.07	0.07	2800	2800	0.07	0.07	0.15	0.15	3.0	8.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:30
06:40	11	35	0.08	0.08	0.16	0.16	3.4	10	5.7	16	0.07	0.07	2800	2800	0.07	0.07	0.13	0.13	2.9	8.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:40
06:50	11	34	0.08	0.08	0.15	0.15	3.4	10	5.4	15	0.06	0.06	2800	2800	0.06	0.06	0.12	0.12	2.8	8.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:50
07:00	11	34	0.07	0.07	0.14	0.14	3.3	9.9	5.1	14	0.06	0.06	2800	2800	0.06	0.06	0.12	0.12	2.7	8.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:00
07:10	11	34	0.07	0.07	0.13	0.13	3.3	9.8	4.8	13	0.06	0.06	2700	2700	0.06	0.06	0.11	0.11	2.6	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:10
07:20	11	33	0.07	0.07	0.13	0.13	3.2	9.6	4.5	12	0.05	0.05	2700	2700	0.05	0.05	0.11	0.11	2.5	7.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:20
07:30	11	32	0.06	0.06	0.12	0.12	3.1	9.3	4.2	12	0.05	0.05	2600	2600	0.05	0.05	0.11	0.11	2.4	7.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:30
07:40	10	31	0.06	0.06	0.12	0.12	3.0	9.1	4.0	11	0.05	0.05	2500	2500	0.05	0.05	0.10	0.10	2.3	7.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:40
07:50	10	30	0.06	0.06	0.12	0.12	2.9	8.8	3.7	10	0.05	0.05	2500	2500	0.05	0.05	0.10	0.10	2.3	6.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:50
08:00	9.9	29	0.06	0.06	0.12	0.12	2.8	8.5	3.4	9.7	0.05	0.05	2400	2400	0.05	0.05	0.10	0.10	2.2	6.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	08:00

Time (Min)	-A- 0-58 737 ARM	-B- 0-13 WastePkg	-C- 0-138 WastePkg	-D- 1-280 PASF ARM	-E- 1-3 WastePkg
	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+05 mr/hr	1.0E-01 to 1.0E+04 mr/hr
05:45	1.7E+1a	7.3E+2a	1.0E+1a	7.7E-1	1.0E+1
05:50	1.6E+1a	4.9E+2	7.2E+0	7.7E-1	7.2E+0
05:55	1.6E+1a	2.5E+2	3.7E+0	7.6E-1	3.7E+0
06:00	1.5E+1a	1.6E+1	3.2E-1	7.5E-1	3.2E-1
06:05	1.4E+1a	1.5E+1	2.8E-1	7.4E-1	2.8E-1
06:10	1.4E+1a	1.3E+1	2.6E-1	7.3E-1	2.6E-1
06:15	1.3E+1a	1.2E+1	2.4E-1	7.1E-1	2.4E-1
06:20	1.2E+1a	1.1E+1	2.2E-1	7.0E-1	2.2E-1
06:25	1.2E+1a	1.1E+1	2.1E-1	6.9E-1	2.1E-1
06:30	1.1E+1a	1.0E+1	1.9E-1	6.7E-1	1.9E-1
06:40	1.0E+1a	1.0E+1	1.7E-1	6.5E-1	1.7E-1
06:50	9.4E+0	1.0E+1	1.6E-1	6.3E-1	1.6E-1
07:00	8.5E+0	1.0E+1	1.5E-1	6.1E-1	1.5E-1
07:10	7.7E+0	1.0E+1	1.5E-1	5.9E-1	1.5E-1
07:20	7.0E+0	1.0E+1	1.4E-1	5.7E-1	1.4E-1
07:30	6.4E+0	1.0E+1	1.4E-1	5.5E-1	1.4E-1
07:40	5.8E+0	1.0E+1	1.4E-1	5.3E-1	1.4E-1
07:50	5.3E+0	1.0E+1	1.3E-1	5.2E-1	1.3E-1
08:00	4.8E+0	1.0E+1	1.3E-1	5.0E-1	1.3E-1



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Time	EP Map Points:4, 5, 6, 19 Data Location: U1 Penetration Room					EP Map Points:15, 16, 17, 18 Data Location: U2 Penetration Room					EP Map Points:10, 11, 20, 21, 22 Data Location: Rooms off Main El				
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE
	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR
05:45	OffHigh	14	OffHigh	1800	1.0	OffHigh	7.2	OffHigh	940	0.51	35000	3.5	OffHigh	470	
05:50	OffHigh	15	OffHigh	1800	1.0	OffHigh	7.7	OffHigh	970	0.52	38000	3.8	OffHigh	490	
05:55	OffHigh	16	OffHigh	1800	1.0	OffHigh	8.2	OffHigh	1000	0.53	41000	4.1	OffHigh	510	
06:00	OffHigh	16	OffHigh	1800	1.0	OffHigh	8.6	OffHigh	1000	0.54	43000	4.3	OffHigh	530	
06:05	OffHigh	17	OffHigh	1800	1.0	OffHigh	9.0	OffHigh	1000	0.55	46000	4.6	OffHigh	540	
06:10	OffHigh	17	OffHigh	1800	0.99	OffHigh	9.4	OffHigh	1000	0.55	48000	4.8	OffHigh	560	
06:15	OffHigh	18	OffHigh	1800	0.97	OffHigh	9.8	OffHigh	1000	0.54	OffHigh	5.0	OffHigh	570	
06:20	OffHigh	18	OffHigh	1800	0.94	OffHigh	10	OffHigh	1000	0.54	OffHigh	5.2	OffHigh	570	
06:25	OffHigh	18	OffHigh	1700	0.91	OffHigh	10	OffHigh	1000	0.53	OffHigh	5.4	OffHigh	580	
06:30	OffHigh	18	OffHigh	1700	0.88	OffHigh	10	OffHigh	1000	0.52	OffHigh	5.5	OffHigh	580	
06:40	OffHigh	19	OffHigh	1600	0.81	OffHigh	11	OffHigh	1000	0.50	OffHigh	5.8	OffHigh	590	
06:50	OffHigh	18	OffHigh	1500	0.74	OffHigh	11	OffHigh	1000	0.48	OffHigh	6.0	OffHigh	590	
07:00	OffHigh	18	OffHigh	1400	0.67	OffHigh	11	OffHigh	1000	0.45	OffHigh	6.2	OffHigh	580	
07:10	OffHigh	18	OffHigh	1300	0.61	OffHigh	11	OffHigh	990	0.43	OffHigh	6.3	OffHigh	570	
07:20	OffHigh	17	OffHigh	1200	0.54	OffHigh	11	OffHigh	950	0.40	OffHigh	6.4	OffHigh	560	
07:30	OffHigh	17	OffHigh	1100	0.48	OffHigh	11	OffHigh	910	0.37	OffHigh	6.4	OffHigh	550	
07:40	OffHigh	16	OffHigh	1000	0.43	OffHigh	11	OffHigh	870	0.34	OffHigh	6.4	OffHigh	530	
07:50	OffHigh	15	OffHigh	960	0.38	OffHigh	11	OffHigh	820	0.31	OffHigh	6.4	OffHigh	520	
08:00	OffHigh	15	OffHigh	870	0.33	OffHigh	10	OffHigh	780	0.29	OffHigh	6.3	OffHigh	500	

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Time	EP Map Points:1,2,3,7,8,9,12,13,14 Data Location: Main 737 Elevation					EP Map Points: Data Location: Not Used					EP Map Points:24 Data Location: Main 729 Elevation				
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG
	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR
05:45	OffHigh	26	OffHigh	2700	1.6	OffHigh	50	OffHigh	1900	1.6	OffHigh	5.4	OffHigh	590	0.35
05:50	OffHigh	27	OffHigh	2600	1.6	OffHigh	47	OffHigh	1300	1.1	OffHigh	5.6	OffHigh	590	0.34
05:55	OffHigh	27	OffHigh	2500	1.5	OffHigh	43	OffHigh	650	0.57	OffHigh	5.7	OffHigh	580	0.33
06:00	OffHigh	27	OffHigh	2400	1.4	OffHigh	38	<100	<2.0	<0.05	OffHigh	5.8	OffHigh	570	0.32
06:05	OffHigh	27	OffHigh	2200	1.3	OffHigh	35	<100	<2.0	<0.05	OffHigh	5.9	OffHigh	560	0.31
06:10	OffHigh	27	OffHigh	2100	1.2	OffHigh	32	<100	<2.0	<0.05	OffHigh	5.9	OffHigh	540	0.29
06:15	OffHigh	26	OffHigh	2000	1.1	OffHigh	29	<100	<2.0	<0.05	OffHigh	6.0	OffHigh	530	0.28
06:20	OffHigh	26	OffHigh	1900	1.0	OffHigh	27	<100	<2.0	<0.05	OffHigh	6.0	OffHigh	520	0.27
06:25	OffHigh	25	OffHigh	1800	0.98	OffHigh	25	<100	<2.0	<0.05	OffHigh	6.0	OffHigh	500	0.26
06:30	OffHigh	25	OffHigh	1700	0.91	OffHigh	24	<100	<2.0	<0.05	OffHigh	6.0	OffHigh	490	0.25
06:40	OffHigh	24	OffHigh	1500	0.78	OffHigh	22	<100	<2.0	<0.05	OffHigh	5.9	OffHigh	470	0.23
06:50	OffHigh	22	OffHigh	1300	0.67	OffHigh	20	<100	<2.0	<0.05	OffHigh	5.8	OffHigh	440	0.21
07:00	OffHigh	21	OffHigh	1200	0.58	OffHigh	19	<100	<2.0	<0.05	OffHigh	5.7	OffHigh	420	0.19
07:10	OffHigh	20	OffHigh	1000	0.50	OffHigh	19	<100	<2.0	<0.05	OffHigh	5.6	OffHigh	400	0.17
07:20	OffHigh	19	OffHigh	970	0.43	OffHigh	18	<100	<2.0	<0.05	OffHigh	5.5	OffHigh	380	0.16
07:30	OffHigh	18	OffHigh	860	0.37	OffHigh	18	<100	<2.0	<0.05	OffHigh	5.4	OffHigh	360	0.15
07:40	OffHigh	17	OffHigh	770	0.32	OffHigh	17	<100	<2.0	<0.05	OffHigh	5.2	OffHigh	340	0.13
07:50	OffHigh	16	OffHigh	680	0.27	OffHigh	17	<100	<2.0	<0.05	OffHigh	5.1	OffHigh	330	0.12
08:00	OffHigh	15	OffHigh	610	0.23	OffHigh	17	<100	<2.0	<0.05	OffHigh	5.0	OffHigh	310	0.11

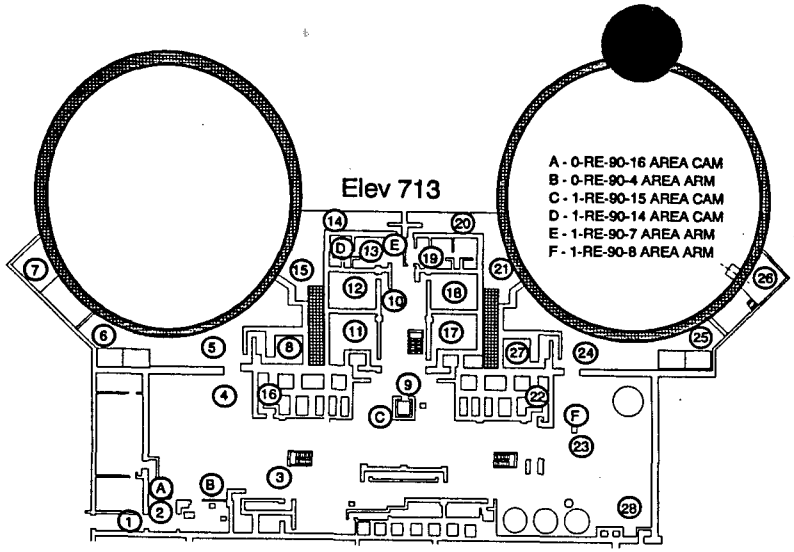
WBN713 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 AuxBldg Access inside Airlock		Location 2 Inside AB at main AB doors		Location 3 U-1 MDAFW Area		Location 4 Outside U-1 Penetration Rm		Location 5 Unit 1 Penetration Rm		Location 6 Unit 1 Purge Filter Area		Location 7 U-1 Lowr Cntmt Access Doors		Location 8 Unit 1 VCT		Location 9 At Elevator		Location 10 Outside the Hot Sample Rooms		Location 11 1B-B RHR Hx Rm		Location 12 1A-A RHR Hx Rm		Location 13 U-1 Hot Sample Room		Location 14 U-1 Pipe Chase		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.3	1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	0.74	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	2.4	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	5.6	<0.05	0.10	0.06	0.18	0.05	0.17	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.17	<0.05	0.14	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	03:30
03:35	0.06	11	0.08	0.25	0.15	0.45	0.14	0.43	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	0.42	0.11	0.34	0.06	0.18	0.06	0.18	<0.05	<0.05	<0.05	<0.05	03:35

WBN713 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 U-1 Pipe Chase		Location 16 U-1 Mixed Bed Valve Gallery		Location 17 2B-B RHR Hx Rm		Location 18 2A-A RHR Hx Rm		Location 19 U-2 Hot Sample Room		Location 20 Unit 2 Penetration Rm		Location 21 Unit 2 Penetration Rm		Location 22 U-2 Mixed Bed Valve Gallery		Location 23 U-2 MDAFW Area		Location 24 Unit 2 Penetration Rm		Location 25 Unit 2 Purge Filter Area		Location 26 U-2 Lowr Cntmt Access Doors		Location 27 Unit 2 VCT		Location 28 BAT Tanks and BA Filters		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	0.68	0.68	1.3	1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	03:25
03:30	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.25	03:30
03:35	<0.05	<0.05	<0.05	0.05	0.06	0.18	0.06	0.18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.15	0.47	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.20	0.61	03:35

Time (Min)	-A- 0-16 713 CAM	-B- 1-4 EqpDecon	-C- 0-15 713 CAM	[illegible]	-E- 1-7B 713 ARM	-F- 1-8B 713 ARM
	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr
00:00	.	.	.	.	.	.
00:30	.	.	.	.	.	.
01:00	.	.	.	.	.	.
01:30	.	.	.	.	.	.
01:55	.	.	.	.	.	.
02:00	.	.	.	.	.	.
02:05	.	.	.	.	.	.
02:10	6.3E+1	1.0E-1	6.3E+1	.	.	1.0E-1
02:15	2.4E+2	1.0E-1	2.4E+2	1.0E+1	1.0E-1	1.0E-1
02:20	6.0E+2	1.0E-1	6.0E+2	1.0E+1	1.0E-1	1.0E-1
02:25	1.1E+3	1.0E-1	1.1E+3	1.0E+1	1.0E-1	1.0E-1
02:30	2.0E+3	1.0E-1	2.0E+3	1.3E+1	1.0E-1	1.0E-1
02:35	3.1E+3a	1.0E-1	3.1E+3a	2.6E+1	1.0E-1	1.0E-1
02:40	4.5E+3a	1.0E-1	4.5E+3a	4.6E+1	1.0E-1	1.0E-1
02:45	6.3E+3a	1.0E-1	6.3E+3a	7.5E+1	1.0E-1	1.0E-1
02:50	8.5E+3a	1.0E-1	8.5E+3a	1.1E+2	1.0E-1	1.0E-1
02:55	1.1E+4a	1.0E-1	1.1E+4a	1.6E+2	1.0E-1	1.0E-1
03:00	1.4E+4a	1.0E-1	1.4E+4a	2.3E+2	1.0E-1	1.0E-1
03:05	1.7E+4a	1.0E-1	1.7E+4a	3.2E+2	1.0E-1	1.0E-1
03:10	2.1E+4a	1.0E-1	2.1E+4a	4.2E+2	1.0E-1	1.0E-1
03:15	2.5E+4a	1.0E-1	2.5E+4a	5.5E+2	1.0E-1	1.0E-1
03:20	3.0E+4a	1.0E-1	3.0E+4a	7.0E+2	1.0E-1	1.0E-1
03:25	3.5E+4a	1.0E-1	3.5E+4a	8.8E+2	1.0E-1	1.0E-1
03:30	4.1E+4a	1.0E-1	4.1E+4a	1.0E+3	1.0E-1	1.0E-1
03:35	5.0E+4a	1.0E-1	5.0E+4a	1.3E+3	1.0E-1	1.3E-1



WBN713 08-04-1993 15:07:28 wbn93ge — Watts Bar Nuclear Plant

EP Map Points:5, 6, 7, 8 — Data Location: U1 Penetration Room

EP Map Points:13 (See 692 for Pipe Chase) — Data Location: U1 Hot Sample Room

EP Map Points:24, 25, 26, 27 — Data Location: U2 Penetration Roc

EP Map Points:19 (See 692 for Pipe Chase) — Data Location: U2 Hot Sample Room

EP Map Points:11,12,16,17,18,22 — Data Location: Rooms Off Main Elev

EP Map Points:2,3,4,9,10,23,28 — Data Location: Main 713 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDGE GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	280	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:20	<100	<2.0	710	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:25	<100	<2.0	1200	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:30	<100	<2.0	1900	<2.0	<0.05	<100	<2.0	100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:35	<100	<2.0	2800	<2.0	<0.05	<100	<2.0	150	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:40	<100	<2.0	3700	<2.0	<0.05	<100	<2.0	210	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:45	<100	<2.0	4700	<2.0	<0.05	<100	<2.0	290	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:50	<100	<2.0	5800	<2.0	<0.05	<100	<2.0	380	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:55	<100	<2.0	7000	<2.0	<0.05	<100	<2.0	470	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:00	<100	<2.0	8300	<2.0	<0.05	<100	<2.0	580	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:05	<100	<2.0	9600	<2.0	<0.05	<100	<2.0	700	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:10	<100	<2.0	10000	<2.0	<0.05	<100	<2.0	830	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:15	<100	<2.0	12000	<2.0	<0.05	<100	<2.0	970	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:20	<100	<2.0	13000	<2.0	<0.05	<100	<2.0	1100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:25	<100	<2.0	15000	<2.0	<0.05	<100	<2.0	1300	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:30	100	<2.0	18000	<2.0	<0.05	<100	<2.0	1500	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
03:35	120	<2.0	25000	2.5	<0.05	<100	<2.0	2100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDGE GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	190	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	1400	<2.0	<0.05
02:20	<100	<2.0	390	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	2900	<2.0	<0.05
02:25	<100	<2.0	670	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	4600	<2.0	<0.05
02:30	<100	<2.0	1000	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	6500	<2.0	<0.05
02:35	<100	<2.0	1400	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	8400	<2.0	<0.05
02:40	<100	<2.0	1900	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	10000	<2.0	<0.05
02:45	<100	<2.0	2400	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	12000	<2.0	<0.05
02:50	<100	<2.0	3000	<2.0	<0.05	<100	<2.0	120	<2.0	<0.05	<100	<2.0	14000	<2.0	<0.05
02:55	<100	<2.0	3700	<2.0	<0.05	<100	<2.0	160	<2.0	<0.05	<100	<2.0	16000	<2.0	<0.05
03:00	<100	<2.0	4400	<2.0	<0.05	<100	<2.0	190	<2.0	<0.05	<100	<2.0	18000	<2.0	<0.05
03:05	<100	<2.0	5200	<2.0	<0.05	<100	<2.0	230	<2.0	<0.05	<100	<2.0	20000	2.0	<0.05
03:10	<100	<2.0	6000	<2.0	<0.05	<100	<2.0	280	<2.0	<0.05	<100	<2.0	22000	2.2	<0.05
03:15	<100	<2.0	6800	<2.0	<0.05	<100	<2.0	330	<2.0	<0.05	<100	<2.0	24000	2.4	<0.05
03:20	<100	<2.0	7700	<2.0	<0.05	<100	<2.0	380	<2.0	<0.05	<100	<2.0	26000	2.7	<0.05
03:25	<100	<2.0	8700	<2.0	<0.05	<100	<2.0	440	<2.0	<0.05	<100	<2.0	28000	2.9	<0.05
03:30	<100	<2.0	10000	<2.0	<0.05	<100	<2.0	540	<2.0	<0.05	<100	<2.0	33000	3.3	<0.05
03:35	<100	<2.0	13000	<2.0	<0.05	<100	<2.0	730	<2.0	<0.05	<100	<2.0	47000	4.7	<0.05
													OffHigh	8.6	<0.05

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Time	Location 1 AuxBldg Access inside Airlock Closed Window mr/hr	Location 1 Open Window mr/hr	Location 2 Inside AB at main AB doors Closed Window mr/hr	Location 2 Open Window mr/hr	Location 3 U-1 MDAFW Area Closed Window mr/hr	Location 3 Open Window mr/hr	Location 4 Outside U-1 Penetration Rm Closed Window mr/hr	Location 4 Open Window mr/hr	Location 5 Unit 1 Penetration Rm Closed Window mr/hr	Location 5 Open Window mr/hr	Location 6 Unit 1 Purge Filter Area Closed Window mr/hr	Location 6 Open Window mr/hr	Location 7 U-1 Lowr Cntmt Access Doors Closed Window mr/hr	Location 7 Open Window mr/hr
03:40	0.10	17	0.18	0.54	0.32	0.97	0.31	0.93	<0.05	0.12	<0.05	0.07	<0.05	0.07
03:45	0.14	22	0.33	1.0	0.59	1.7	0.57	1.7	0.08	0.25	<0.05	0.14	<0.05	0.14
03:50	0.19	28	0.53	1.6	0.95	2.8	0.92	2.7	0.14	0.44	0.08	0.25	0.08	0.25
03:55	0.24	33	0.77	2.3	1.3	4.1	1.3	3.9	0.24	0.71	0.13	0.41	0.13	0.41
04:00	0.29	37	1.0	3.1	1.8	5.5	1.8	5.3	0.35	1.0	0.20	0.62	0.20	0.62
04:05	0.34	42	1.3	4.0	2.4	7.2	2.3	7.0	0.50	1.5	0.29	0.88	0.29	0.88
04:10	0.40	46	1.7	5.1	3.0	9.1	2.9	8.8	0.68	2.0	0.39	1.1	0.39	1.1
04:15	0.46	50	2.1	6.2	3.7	11	3.6	10	0.90	2.7	0.52	1.5	0.52	1.5
04:20	0.52	54	2.5	7.5	4.5	13	4.3	13	1.1	3.4	0.66	1.9	0.66	1.9
04:25	0.58	57	2.9	8.9	5.3	15	5.1	15	1.4	4.2	0.83	2.4	0.83	2.4
04:30	0.64	60	3.4	10	6.1	18	5.9	17	1.7	5.2	1.0	3.0	1.0	3.0
04:35	0.71	63	3.9	11	7.0	21	6.8	20	2.1	6.3	1.2	3.6	1.2	3.6
04:40	0.77	65	4.5	13	7.9	23	7.7	23	2.4	7.4	1.4	4.2	1.4	4.2
04:45	0.84	68	5.0	15	8.9	26	8.6	25	2.9	8.6	1.6	5.0	1.6	5.0
04:50	0.88	66	5.5	16	9.9	29	9.6	28	3.3	10	1.9	5.8	1.9	5.8
04:55	0.92	62	6.1	18	10	32	10	31	3.8	11	2.2	6.6	2.2	6.6
05:00	0.96	59	6.6	19	11	35	11	34	4.3	12	2.5	7.4	2.5	7.4
05:05	0.98	56	7.0	21	12	37	12	36	4.8	14	2.7	8.3	2.7	8.3
05:10	1.0	52	7.5	22	13	39	12	38	5.3	15	3.0	9.1	3.0	9.1
05:15	1.0	47	7.9	23	14	41	13	40	5.8	17	3.3	10	3.3	10
05:20	1.0	43	8.2	24	14	43	14	42	6.3	18	3.6	10	3.6	10
05:25	1.0	38	8.5	25	15	45	14	43	6.8	20	3.9	11	3.9	11
05:30	1.0	33	8.8	26	15	46	15	45	7.2	21	4.2	12	4.2	12
05:35	1.0	28	9.0	26	15	47	15	46	7.7	22	4.4	13	4.4	13
05:40	1.0	23	9.1	27	16	48	15	46	8.1	24	4.6	14	4.6	14

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Time	Location 8 Unit 1 VCT Closed Window mr/hr	Location 8 Open Window mr/hr	Location 9 At Elevator Closed Window mr/hr	Location 9 Open Window mr/hr	Location 10 Outside the Hot Sample Rooms Closed Window mr/hr	Location 10 Open Window mr/hr	Location 11 1B-B RHR Hx Rm Closed Window mr/hr	Location 11 Open Window mr/hr	Location 12 1A-A RHR Hx Rm Closed Window mr/hr	Location 12 Open Window mr/hr	Location 13 U-1 Hot Sample Room Closed Window mr/hr	Location 13 Open Window mr/hr	Location 14 U-1 Pipe Chase Closed Window mr/hr	Location 14 Open Window mr/hr
03:40	<0.05	<0.05	0.30	0.92	0.25	0.75	0.13	0.39	0.13	0.39	<0.05	<0.05	<0.05	<0.05
03:45	<0.05	0.08	0.56	1.6	0.46	1.3	0.23	0.71	0.23	0.71	<0.05	<0.05	<0.05	<0.05
03:50	0.05	0.15	0.90	2.7	0.73	2.2	0.38	1.1	0.38	1.1	<0.05	<0.05	<0.05	0.05
03:55	0.08	0.24	1.3	3.8	1.0	3.1	0.55	1.6	0.55	1.6	<0.05	<0.05	<0.05	0.09
04:00	0.12	0.36	1.7	5.2	1.4	4.3	0.75	2.2	0.75	2.2	<0.05	0.06	0.05	0.15
04:05	0.17	0.51	2.3	6.8	1.8	5.6	0.97	2.9	0.97	2.9	<0.05	0.08	0.08	0.24
04:10	0.23	0.69	2.9	8.6	2.3	7.0	1.2	3.6	1.2	3.6	<0.05	0.12	0.12	0.37
04:15	0.30	0.91	3.5	10	2.8	8.6	1.5	4.5	1.5	4.5	0.05	0.16	0.18	0.53
04:20	0.39	1.1	4.2	12	3.4	10	1.8	5.4	1.8	5.4	0.06	0.20	0.24	0.73
04:25	0.48	1.4	5.0	15	4.1	12	2.1	6.4	2.1	6.4	0.08	0.26	0.32	0.98
04:30	0.59	1.7	5.8	17	4.7	14	2.4	7.4	2.4	7.4	0.11	0.32	0.42	1.2
04:35	0.71	2.1	6.7	20	5.4	16	2.8	8.4	2.8	8.4	0.13	0.40	0.53	1.6
04:40	0.84	2.5	7.5	22	6.1	18	3.2	9.6	3.2	9.6	0.16	0.48	0.66	1.9
04:45	0.99	2.9	8.5	25	6.9	20	3.6	10	3.6	10	0.19	0.57	0.81	2.4
04:50	1.1	3.3	9.4	28	7.6	22	3.9	11	3.9	11	0.22	0.67	0.97	2.9
04:55	1.3	3.8	10	30	8.4	25	4.3	13	4.3	13	0.26	0.78	1.1	3.4
05:00	1.4	4.3	11	33	9.1	27	4.7	14	4.7	14	0.30	0.90	1.3	4.0
05:05	1.6	4.8	11	35	9.7	29	5.0	15	5.0	15	0.34	1.0	1.5	4.6
05:10	1.8	5.3	12	37	10	30	5.3	16	5.3	16	0.38	1.1	1.7	5.2
05:15	1.9	5.8	13	39	10	32	5.6	16	5.6	16	0.43	1.2	1.9	5.8
05:20	2.1	6.3	13	41	11	33	5.9	17	5.9	17	0.48	1.4	2.2	6.5
05:25	2.3	6.8	14	42	11	35	6.1	18	6.1	18	0.53	1.5	2.4	7.2
05:30	2.4	7.3	14	44	12	36	6.3	18	6.3	18	0.57	1.7	2.6	7.9
05:35	2.6	7.7	15	45	12	36	6.4	19	6.4	19	0.62	1.8	2.8	8.6
05:40	2.7	8.1	15	45	12	37	6.5	19	6.5	19	0.67	2.0	3.1	9.3

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Time	Location 15 U-1 Pipe Chase Closed Window mr/hr	Location 15 Open Window mr/hr	Location 16 U-1 Mixed Bed Valve Gallery Closed Window mr/hr	Location 16 Open Window mr/hr	Location 17 2B-B RHR Hx Rm Closed Window mr/hr	Location 17 Open Window mr/hr	Location 18 2A-A RHR Hx Rm Closed Window mr/hr	Location 18 Open Window mr/hr	Location 19 U-2 Hot Sample Room Closed Window mr/hr	Location 19 Open Window mr/hr	Location 20 Unit 2 Penetration Rm Closed Window mr/hr	Location 20 Open Window mr/hr	Location 21 Unit 2 Penetration Rm Closed Window mr/hr	Location 21 Open Window mr/hr
03:40	<0.05	<0.05	<0.05	0.12	0.13	0.39	0.13	0.39	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
03:45	<0.05	<0.05	0.07	0.23	0.23	0.71	0.23	0.71	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
03:50	<0.05	0.07	0.12	0.38	0.38	1.1	0.38	1.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
03:55	<0.05	0.14	0.18	0.54	0.55	1.6	0.55	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
04:00	0.08	0.24	0.24	0.74	0.75	2.2	0.74	2.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
04:05	0.13	0.39	0.32	0.96	0.97	2.9	0.97	2.9	<0.05	<0.05	<0.05	0.05	<0.05	0.08
04:10	0.19	0.59	0.40	1.2	1.2	3.6	1.2	3.6	<0.05	<0.05	<0.05	0.08	<0.05	0.13
04:15	0.28	0.84	0.49	1.4	1.5	4.5	1.5	4.5	<0.05	0.05	<0.05	0.12	0.06	0.19
04:20	0.38	1.1	0.60	1.7	1.8	5.4	1.8	5.4	<0.05	0.06	0.05	0.17	0.09	0.27
04:25	0.52	1.5	0.70	2.1	2.1	6.4	2.1	6.4	<0.05	0.08	0.07	0.23	0.12	0.37
04:30	0.67	2.0	0.82	2.4	2.4	7.4	2.4	7.4	<0.05	0.11	0.10	0.31	0.16	0.49
04:35	0.85	2.5	0.94	2.8	2.8	8.4	2.8	8.4	<0.05	0.13	0.13	0.40	0.21	0.63
04:40	1.0	3.1	1.0	3.1	3.2	9.6	3.2	9.6	0.05	0.16	0.17	0.51	0.27	0.80
04:45	1.2	3.8	1.1	3.5	3.6	10	3.6	10	0.06	0.19	0.21	0.63	0.33	1.0
04:50	1.5	4.5	1.3	3.9	3.9	11	3.9	11	0.07	0.22	0.26	0.77	0.41	1.2
04:55	1.8	5.4	1.4	4.3	4.3	13	4.3	13	0.08	0.26	0.31	0.93	0.49	1.4
05:00	2.1	6.3	1.5	4.6	4.7	14	4.7	14	0.10	0.30	0.37	1.1	0.59	1.7
05:05	2.4	7.2	1.6	5.0	5.0	15	5.0	15	0.11	0.34	0.44	1.3	0.69	2.0
05:10	2.7	8.2	1.7	5.3	5.3	16	5.3	16	0.13	0.39	0.51	1.5	0.80	2.4
05:15	3.1	9.3	1.8	5.5	5.6	16	5.6	16	0.14	0.43	0.58	1.7	0.92	2.7
05:20	3.4	10	1.9	5.8	5.9	17	5.9	17	0.16	0.48	0.67	2.0	1.0	3.1
05:25	3.8	11	2.0	6.0	6.1	18	6.1	18	0.17	0.53	0.75	2.2	1.1	3.5
05:30	4.2	12	2.0	6.2	6.3	18	6.2	18	0.19	0.58	0.84	2.5	1.3	3.9
05:35	4.5	13	2.1	6.3	6.4	19	6.4	19	0.21	0.63	0.94	2.8	1.4	4.4
05:40	4.9	14	2.1	6.4	6.5	19	6.5	19	0.22	0.68	1.0	3.1	1.6	4.8

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Time	Location 22 U-2 Mixed Bed Valve Gallery Closed Window mr/hr	Location 22 Open Window mr/hr	Location 23 U-2 MDAFW Area Closed Window mr/hr	Location 23 Open Window mr/hr	Location 24 Unit 2 Penetration Rm Closed Window mr/hr	Location 24 Open Window mr/hr	Location 25 Unit 2 Purge Filter Area Closed Window mr/hr	Location 25 Open Window mr/hr	Location 26 U-2 Lowr Cntmt Access Doors Closed Window mr/hr	Location 26 Open Window mr/hr	Location 27 Unit 2 VCT Closed Window mr/hr	Location 27 Open Window mr/hr	Location 28 BAT Tanks and BA Filters Closed Window mr/hr	Location 28 Open Window mr/hr
03:40	<0.05	0.12	0.33	1.0	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.44	1.3
03:45	0.07	0.23	0.62	1.8	<0.05	0.12	<0.05	0.07	<0.05	0.07	<0.05	<0.05	0.81	2.4
03:50	0.12	0.38	1.0	2.9	0.07	0.21	<0.05	0.12	<0.05	0.12	<0.05	0.07	1.3	3.9
03:55	0.18	0.54	1.4	4.2	0.11	0.35	0.06	0.20	0.06	0.20	<0.05	0.11	1.8	5.6
04:00	0.24	0.74	1.9	5.8	0.17	0.52	0.10	0.30	0.10	0.30	0.05	0.17	2.5	7.6
04:05	0.32	0.96	2.5	7.6	0.25	0.75	0.14	0.43	0.14	0.43	0.08	0.25	3.3	9.9
04:10	0.40	1.2	3.2	9.5	0.34	1.0	0.20	0.60	0.20	0.60	0.11	0.34	4.2	12
04:15	0.49	1.4	3.9	11	0.45	1.3	0.26	0.79	0.26	0.79	0.15	0.46	5.1	15
04:20	0.60	1.7	4.7	14	0.59	1.7	0.34	1.0	0.34	1.0	0.19	0.59	6.2	18
04:25	0.70	2.1	5.5	16	0.74	2.2	0.43	1.2	0.43	1.2	0.25	0.75	7.3	21
04:30	0.82	2.4	6.4	19	0.92	2.7	0.53	1.5	0.53	1.5	0.30	0.92	8.4	25
04:35	0.94	2.8	7.3	22	1.1	3.3	0.64	1.9	0.64	1.9	0.37	1.1	9.7	28
04:40	1.0	3.1	8.3	24	1.3	3.9	0.77	2.3	0.77	2.3	0.44	1.3	10	32
04:45	1.1	3.5	9.3	27	1.5	4.7	0.90	2.7	0.90	2.7	0.52	1.5	12	36
04:50	1.3	3.9	10	30	1.8	5.4	1.0	3.1	1.0	3.1	0.61	1.8	13	40
04:55	1.4	4.3	11	33	2.1	6.3	1.2	3.6	1.2	3.6	0.71	2.1	14	44
05:00	1.5	4.6	12	36	2.4	7.1	1.3	4.1	1.3	4.1	0.80	2.4	16	48
05:05	1.6	5.0	13	39	2.7	8.1	1.5	4.6	1.5	4.6	0.91	2.7	17	51
05:10	1.7	5.3	13	41	3.0	9.0	1.7	5.2	1.7	5.2	1.0	3.0	18	54
05:15	1.8	5.5	14	43	3.3	9.9	1.9	5.7	1.9	5.7	1.1	3.3	19	57
05:20	1.9	5.8	15	45	3.6	11	2.1	6.3	2.1	6.3	1.2	3.6	20	60
05:25	2.0	6.0	15	47	4.0	11	2.3	6.9	2.3	6.9	1.3	4.0	20	62
05:30	2.0	6.2	16	48	4.3	12	2.4	7.4	2.4	7.4	1.4	4.3	21	64
05:35	2.1	6.3	16	49	4.6	13	2.6	7.9	2.6	7.9	1.5	4.6	21	65
05:40	2.1	6.4	16	50	4.9	14	2.8	8.5	2.8	8.5	1.6	4.9	22	66

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Time	Location 1 AuxBldg Access Inside Airlock		Location 2 Inside AB at main AB doors		Location 3 U-1 MDAFW Area		Location 4 Outside U-1 Penetration Rm		Location 5 Unit 1 Penetration Rm		Location 6 Unit 1 Purge Filter Area		Location 7 U-1 Lowr Cntmt Access Doors		Location 8 Unit 1 VCT		Location 9 At Elevator		Location 10 Outside the Hot Sample Rooms		Location 11 1B-B RHR Hx Rm		Location 12 1A-A RHR Hx Rm		Location 13 U-1 Hot Sample Room		Location 14 U-1 Pipe Chase		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	1.0	17	9.2	27	16	48	15	47	8.5	25	4.9	14	4.9	14	2.8	8.5	15	46	12	37	6.6	19	6.6	19	0.72	2.1	3.3	9.9	05:45
05:50	0.98	12	9.2	27	16	49	15	47	8.8	26	5.1	15	5.1	15	3.0	8.9	15	46	12	37	6.6	19	6.6	19	0.77	2.3	3.5	10	05:50
05:55	0.95	6.5	9.2	27	16	48	15	47	9.1	27	5.2	15	5.2	15	3.1	9.2	15	46	12	37	6.6	19	6.6	19	0.82	2.4	3.7	11	05:55
06:00	0.91	0.91	9.1	27	16	48	15	46	9.4	28	5.4	16	5.4	16	3.1	9.4	15	45	12	37	6.5	19	6.5	19	0.86	2.5	3.9	11	06:00
06:05	0.90	0.90	9.0	26	16	47	15	46	9.6	28	5.5	16	5.5	16	3.2	9.6	15	45	12	36	6.4	19	6.4	19	0.91	2.7	4.0	12	06:05
06:10	0.89	0.89	8.8	26	15	46	15	45	9.8	29	5.6	16	5.6	16	3.3	9.8	14	44	12	36	6.3	18	6.3	18	0.95	2.8	4.2	12	06:10
06:15	0.87	0.87	8.7	25	15	46	15	44	9.9	29	5.7	17	5.7	17	3.3	9.9	14	43	11	35	6.2	18	6.2	18	0.99	2.9	4.3	12	06:15
06:20	0.85	0.85	8.5	25	15	45	14	43	10	29	5.7	17	5.7	17	3.4	10	14	42	11	34	6.1	18	6.1	18	1.0	3.0	4.4	13	06:20
06:25	0.84	0.84	8.3	24	14	44	14	42	10	30	5.8	17	5.8	17	3.4	10	14	42	11	34	5.9	17	5.9	17	1.0	3.1	4.5	13	06:25
06:30	0.82	0.82	8.2	24	14	43	14	41	10	30	5.8	17	5.8	17	3.4	10	13	41	11	33	5.8	17	5.8	17	1.1	3.2	4.5	13	06:30
06:40	0.78	0.78	7.8	23	13	41	13	40	10	30	5.8	17	5.8	17	3.4	10	13	39	10	31	5.6	16	5.6	16	1.1	3.4	4.6	13	06:40
06:50	0.75	0.75	7.4	22	13	39	12	38	10	29	5.7	17	5.7	17	3.3	10	12	37	10	30	5.3	15	5.3	15	1.2	3.6	4.6	13	06:50
07:00	0.71	0.71	7.1	21	12	37	12	36	9.8	29	5.6	16	5.6	16	3.3	9.8	12	35	9.7	28	5.0	15	5.0	15	1.2	3.8	4.6	13	07:00
07:10	0.67	0.67	6.7	20	11	35	11	34	9.6	28	5.5	16	5.5	16	3.2	9.6	11	33	9.2	27	4.8	14	4.8	14	1.3	3.9	4.5	13	07:10
07:20	0.64	0.64	6.3	18	11	33	10	32	9.3	27	5.3	16	5.3	16	3.1	9.3	10	31	8.7	25	4.5	13	4.5	13	1.3	4.0	4.4	13	07:20
07:30	0.60	0.60	6.0	17	10	31	10	30	9.0	26	5.2	15	5.2	15	3.0	9.0	10	30	8.2	24	4.3	12	4.3	12	1.4	4.1	4.3	12	07:30
07:40	0.57	0.57	5.6	16	10	29	9.7	28	8.7	26	5.0	15	5.0	15	2.9	8.7	9.5	28	7.7	23	4.0	12	4.0	12	1.4	4.2	4.1	12	07:40
07:50	0.53	0.53	5.3	15	9.4	28	9.1	27	8.4	24	4.8	14	4.8	14	2.8	8.3	9.0	26	7.3	21	3.8	11	3.8	11	1.4	4.3	4.0	11	07:50
08:00	0.50	0.50	5.0	14	8.9	26	8.6	25	8.0	23	4.6	13	4.6	13	2.7	8.0	8.4	25	6.8	20	3.5	10	3.5	10	1.4	4.3	3.8	11	08:00

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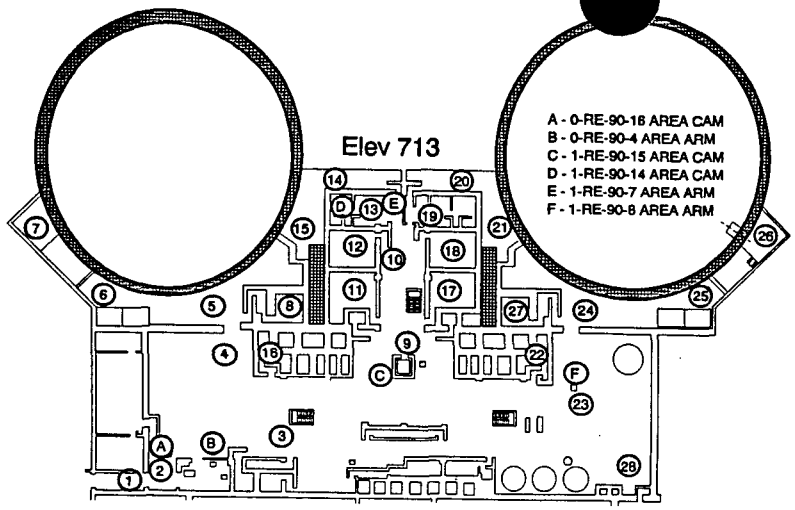
Time	Location 15 U-1 Pipe Chase		Location 16 U-1 Mixed Bed Valve Gallery		Location 17 2B-B RHR Hx Rm		Location 18 2A-A RHR Hx Rm		Location 19 U-2 Hot Sample Room		Location 20 Unit 2 Penetration Rm		Location 21 Unit 2 Penetration Rm		Location 22 U-2 Mixed Bed Valve Gallery		Location 23 U-2 MDAFW Area		Location 24 Unit 2 Penetration Rm		Location 25 Unit 2 Purge Filter Area		Location 26 U-2 Lowr Cntmt Access Doors		Location 27 Unit 2 VCT		Location 28 BAT Tanks and BA Filters		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	5.2	15	2.1	6.5	6.6	19	6.6	19	0.24	0.73	1.1	3.3	1.7	5.3	2.1	6.5	17	51	5.2	15	3.0	9.0	3.0	9.0	1.7	5.2	22	67	05:45
05:50	5.5	16	2.1	6.5	6.6	19	6.6	19	0.26	0.78	1.2	3.6	1.9	5.8	2.1	6.5	17	51	5.5	16	3.1	9.5	3.1	9.5	1.8	5.5	22	67	05:50
05:55	5.9	17	2.1	6.5	6.6	19	6.6	19	0.28	0.83	1.3	3.9	2.1	6.2	2.1	6.5	17	51	5.7	17	3.3	9.9	3.3	9.9	1.9	5.7	22	67	05:55
06:00	6.1	18	2.1	6.4	6.5	19	6.5	19	0.29	0.88	1.4	4.2	2.2	6.7	2.1	6.4	17	50	6.0	18	3.4	10	3.4	10	2.0	6.0	22	66	06:00
06:05	6.4	19	2.1	6.3	6.4	19	6.4	19	0.31	0.93	1.5	4.5	2.4	7.2	2.1	6.3	16	49	6.2	18	3.6	10	3.6	10	2.1	6.2	22	65	06:05
06:10	6.6	19	2.1	6.2	6.3	18	6.3	18	0.32	0.97	1.6	4.8	2.5	7.6	2.1	6.2	16	49	6.4	19	3.7	11	3.7	11	2.1	6.4	21	64	06:10
06:15	6.8	20	2.0	6.1	6.2	18	6.2	18	0.34	1.0	1.7	5.1	2.7	8.0	2.0	6.1	16	48	6.6	19	3.8	11	3.8	11	2.2	6.6	21	63	06:15
06:20	7.0	20	2.0	6.0	6.1	18	6.1	18	0.35	1.0	1.8	5.3	2.8	8.5	2.0	6.0	15	47	6.8	20	3.9	11	3.9	11	2.2	6.8	20	62	06:20
06:25	7.1	21	1.9	5.8	5.9	17	5.9	17	0.36	1.0	1.8	5.6	2.9	8.8	1.9	5.8	15	46	6.9	20	4.0	11	4.0	11	2.3	6.9	20	60	06:25
06:30	7.2	21	1.9	5.7	5.8	17	5.8	17	0.38	1.1	1.9	5.8	3.1	9.2	1.9	5.7	15	45	7.0	21	4.0	12	4.0	12	2.3	7.0	20	59	06:30
06:40	7.3	21	1.8	5.5	5.6	16	5.6	16	0.40	1.2	2.1	6.3	3.3	9.9	1.8	5.5	14	43	7.2	21	4.1	12	4.1	12	2.4	7.2	19	56	06:40
06:50	7.3	21	1.7	5.2	5.3	15	5.3	15	0.42	1.2	2.2	6.6	3.5	10	1.7	5.2	13	41	7.4	22	4.2	12	4.2	12	2.4	7.4	18	54	06:50
07:00	7.3	21	1.6	4.9	5.0	15	5.0	15	0.44	1.3	2.3	6.9	3.7	11	1.6	4.9	13	39	7.4	22	4.3	12	4.3	12	2.5	7.4	17	51	07:00
07:10	7.2	21	1.5	4.7	4.8	14	4.8	14	0.46	1.3	2.4	7.2	3.8	11	1.5	4.7	12	37	7.5	22	4.3	12	4.3	12	2.5	7.5	16	48	07:10
07:20	7.0	20	1.5	4.4	4.5	13	4.5	13	0.48	1.4	2.5	7.4	3.9	11	1.5	4.4	11	35	7.4	22	4.3	12	4.3	12	2.5	7.4	15	46	07:20
07:30	6.8	20	1.4	4.2	4.3	12	4.3	12	0.49	1.4	2.5	7.5	4.0	11	1.4	4.2	11	33	7.4	22	4.2	12	4.2	12	2.5	7.4	14	43	07:30
07:40	6.5	19	1.3	3.9	4.0	12	4.0	12	0.51	1.5	2.5	7.6	4.0	12	1.3	3.9	10	31	7.3	21	4.2	12	4.2	12	2.4	7.3	13	41	07:40
07:50	6.3	18	1.2	3.7	3.8	11	3.8	11	0.52	1.5	2.6	7.7	4.1	12	1.2	3.7	9.9	29	7.2	21	4.1	12	4.1	12	2.4	7.2	13	38	07:50
08:00	6.0	17	1.1	3.5	3.5	10	3.5	10	0.53	1.5	2.6	7.7	4.1	12	1.1	3.5	9.3	27	7.0	21	4.0	12	4.0	12	2.3	7.0	12	36	08:00

Time (Min)	-A- 0-16 713 CAM	-B- 1-4 EqpDecon	-C- 0-15 713 CAM	[illegible] 713 CAM	-E- 1-7B 713 ARM	-F- 1-8B 713 ARM
	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr
05:45	OffHigh	9.3E+0	OffHigh	1.7E+6@	7.3E-1	1.5E+1@
05:50	OffHigh	9.3E+0	OffHigh	1.9E+6@	7.8E-1	1.5E+1@
05:55	OffHigh	9.3E+0	OffHigh	2.2E+6@	8.2E-1	1.5E+1@
06:00	OffHigh	9.2E+0	OffHigh	2.5E+6@	8.7E-1	1.4E+1@
06:05	OffHigh	9.1E+0	OffHigh	2.8E+6@	9.2E-1	1.4E+1@
06:10	OffHigh	8.9E+0	OffHigh	3.1E+6@	9.6E-1	1.4E+1@
06:15	OffHigh	8.8E+0	OffHigh	3.4E+6@	1.0E+0	1.4E+1@
06:20	OffHigh	8.6E+0	OffHigh	3.7E+6@	1.0E+0	1.3E+1@
06:25	OffHigh	8.4E+0	OffHigh	4.1E+6@	1.0E+0	1.3E+1@
06:30	OffHigh	8.3E+0	OffHigh	4.5E+6@	1.1E+0	1.3E+1@
06:40	OffHigh	7.9E+0	OffHigh	5.3E+6@	1.1E+0	1.2E+1@
06:50	OffHigh	7.5E+0	OffHigh	6.1E+6@	1.2E+0	1.2E+1@
07:00	OffHigh	7.2E+0	OffHigh	6.9E+6@	1.2E+0	1.1E+1@
07:10	OffHigh	6.8E+0	OffHigh	7.8E+6@	1.3E+0	1.1E+1@
07:20	OffHigh	6.4E+0	OffHigh	8.7E+6@	1.3E+0	1.0E+1@
07:30	OffHigh	6.1E+0	OffHigh	9.7E+6@	1.4E+0	9.8E+0
07:40	OffHigh	5.7E+0	OffHigh	OffHigh	1.4E+0	9.2E+0
07:50	OffHigh	5.4E+0	OffHigh	OffHigh	1.4E+0	8.7E+0
08:00	OffHigh	5.0E+0	OffHigh	OffHigh	1.4E+0	8.2E+0



WBN713 08-04-1993 15:10:03 wbn93ge

EP Map Points:5, 6, 7, 8
Data Location: U1 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	OffHigh	8.6	OffHigh	1100	0.61
05:50	OffHigh	9.3	OffHigh	1100	0.63
05:55	OffHigh	9.8	OffHigh	1200	0.64
06:00	OffHigh	10	OffHigh	1200	0.65
06:05	OffHigh	10	OffHigh	1200	0.65
06:10	OffHigh	11	OffHigh	1200	0.65
06:15	OffHigh	11	OffHigh	1200	0.65
06:20	OffHigh	12	OffHigh	1200	0.64
06:25	OffHigh	12	OffHigh	1200	0.63
06:30	OffHigh	12	OffHigh	1200	0.62
06:40	OffHigh	13	OffHigh	1200	0.60
06:50	OffHigh	13	OffHigh	1200	0.56
07:00	OffHigh	13	OffHigh	1100	0.53
07:10	OffHigh	13	OffHigh	1100	0.49
07:20	OffHigh	13	OffHigh	1000	0.46
07:30	OffHigh	13	OffHigh	1000	0.42
07:40	OffHigh	12	OffHigh	970	0.39
07:50	OffHigh	12	OffHigh	910	0.35
08:00	OffHigh	12	OffHigh	860	0.32

Watts Bar Nuclear Plant

EP Map Points:13 (See 692 for Pipe Chase)
Data Location: U1 Hot Sample Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDGE GM MR/HR
05:45	9100	<2.0	OffHigh	120	0.06
05:50	9900	<2.0	OffHigh	130	0.07
05:55	10000	<2.0	OffHigh	140	0.07
06:00	11000	<2.0	OffHigh	150	0.07
06:05	12000	<2.0	OffHigh	150	0.07
06:10	13000	<2.0	OffHigh	160	0.08
06:15	13000	<2.0	OffHigh	170	0.08
06:20	14000	<2.0	OffHigh	170	0.08
06:25	15000	<2.0	OffHigh	180	0.08
06:30	16000	<2.0	OffHigh	180	0.08
06:40	17000	<2.0	OffHigh	190	0.08
06:50	18000	<2.0	OffHigh	200	0.08
07:00	19000	<2.0	OffHigh	200	0.08
07:10	20000	2.0	OffHigh	200	0.08
07:20	21000	2.1	OffHigh	210	0.08
07:30	22000	2.2	OffHigh	210	0.08
07:40	22000	2.2	OffHigh	210	0.08
07:50	23000	2.3	OffHigh	210	0.07
08:00	23000	2.3	OffHigh	210	0.07

EP Map Points:24, 25, 26, 27
Data Location: U2 Penetration Roo

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
05:45	OffHigh	5.1	OffHigh	690
05:50	OffHigh	5.5	OffHigh	730
05:55	OffHigh	5.9	OffHigh	760
06:00	OffHigh	6.3	OffHigh	790
06:05	OffHigh	6.6	OffHigh	810
06:10	OffHigh	7.0	OffHigh	830
06:15	OffHigh	7.3	OffHigh	850
06:20	OffHigh	7.7	OffHigh	870
06:25	OffHigh	7.9	OffHigh	880
06:30	OffHigh	8.2	OffHigh	890
06:40	OffHigh	8.7	OffHigh	900
06:50	OffHigh	9.1	OffHigh	900
07:00	OffHigh	9.3	OffHigh	900
07:10	OffHigh	9.5	OffHigh	880
07:20	OffHigh	9.7	OffHigh	870
07:30	OffHigh	9.7	OffHigh	840
07:40	OffHigh	9.8	OffHigh	820
07:50	OffHigh	9.7	OffHigh	790
08:00	OffHigh	9.6	OffHigh	760

WBN713 08-04-1993 15:10:03 wbn93ge

EP Map Points:19 (See 692 for Pipe Chase)
Data Location: U2 Hot Sample Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	3000	<2.0	OffHigh	43	<0.05
05:50	3300	<2.0	OffHigh	46	<0.05
05:55	3600	<2.0	OffHigh	49	<0.05
06:00	3900	<2.0	OffHigh	51	<0.05
06:05	4200	<2.0	OffHigh	54	<0.05
06:10	4400	<2.0	OffHigh	56	<0.05
06:15	4700	<2.0	OffHigh	58	<0.05
06:20	5000	<2.0	OffHigh	60	<0.05
06:25	5200	<2.0	OffHigh	62	<0.05
06:30	5500	<2.0	OffHigh	64	<0.05
06:40	5900	<2.0	OffHigh	67	<0.05
06:50	6400	<2.0	OffHigh	69	<0.05
07:00	6700	<2.0	OffHigh	71	<0.05
07:10	7100	<2.0	OffHigh	73	<0.05
07:20	7400	<2.0	OffHigh	74	<0.05
07:30	7700	<2.0	OffHigh	75	<0.05
07:40	7900	<2.0	OffHigh	75	<0.05
07:50	8100	<2.0	OffHigh	75	<0.05
08:00	8300	<2.0	OffHigh	75	<0.05

Watts Bar Nuclear Plant

EP Map Points:11,12,16,17,18,22
Data Location: Rooms Off Main Elev

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
05:45	1800	<2.0	OffHigh	26	<0.05
05:50	2000	<2.0	OffHigh	28	<0.05
05:55	2200	<2.0	OffHigh	29	<0.05
06:00	2300	<2.0	OffHigh	31	<0.05
06:05	2500	<2.0	OffHigh	32	<0.05
06:10	2700	<2.0	OffHigh	34	<0.05
06:15	2800	<2.0	OffHigh	35	<0.05
06:20	3000	<2.0	OffHigh	36	<0.05
06:25	3100	<2.0	OffHigh	37	<0.05
06:30	3300	<2.0	OffHigh	38	<0.05
06:40	3600	<2.0	OffHigh	40	<0.05
06:50	3800	<2.0	OffHigh	42	<0.05
07:00	4100	<2.0	OffHigh	43	<0.05
07:10	4300	<2.0	OffHigh	44	<0.05
07:20	4500	<2.0	OffHigh	45	<0.05
07:30	4600	<2.0	OffHigh	45	<0.05
07:40	4800	<2.0	OffHigh	46	<0.05
07:50	4900	<2.0	OffHigh	46	<0.05
08:00	5000	<2.0	OffHigh	46	<0.05

EP Map Points:2,3,4,9,10,23,28
Data Location: Main 713 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	OffHigh	15	OffHigh	1700	1.0
05:50	OffHigh	16	OffHigh	1700	1.0
05:55	OffHigh	16	OffHigh	1700	0.98
06:00	OffHigh	17	OffHigh	1700	0.96
06:05	OffHigh	17	OffHigh	1600	0.92
06:10	OffHigh	17	OffHigh	1600	0.88
06:15	OffHigh	17	OffHigh	1600	0.85
06:20	OffHigh	17	OffHigh	1500	0.81
06:25	OffHigh	17	OffHigh	1500	0.78
06:30	OffHigh	17	OffHigh	1400	0.74
06:40	OffHigh	17	OffHigh	1300	0.68
06:50	OffHigh	17	OffHigh	1300	0.61
07:00	OffHigh	16	OffHigh	1200	0.56
07:10	OffHigh	16	OffHigh	1100	0.50
07:20	OffHigh	15	OffHigh	1000	0.45
07:30	OffHigh	15	OffHigh	970	0.40
07:40	OffHigh	14	OffHigh	900	0.36
07:50	OffHigh	14	OffHigh	830	0.32
08:00	OffHigh	13	OffHigh	760	0.29

WBN692 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 Unit 1 End		Location 2 U-1 TDAFW Pump		Location 3 Outside Unit 1 Penetration Rm		Location 4 Unit 1 Penetration Rm		Location 5 Unit 1 Penetration Rm		Location 6 U-1 Pipe Chase		Location 7 U-1 Pipe Chase		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.1	2.1	10	10	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	<0.05	0.08	<0.05	0.07	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:35

WBN692 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 8 U-1 Pipe Chase		Location 9 CCP 1A-A		Location 10 CCP 1B-B		Location 11 CCP 1C-C		Location 12 Near Elevator		Location 13 SI 1B-B		Location 14 SI 1A-A		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	4.6	4.6	<0.05	<0.05	2.9	2.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	03:30
03:35	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.05	0.15	<0.05	0.07	<0.05	<0.05	03:35

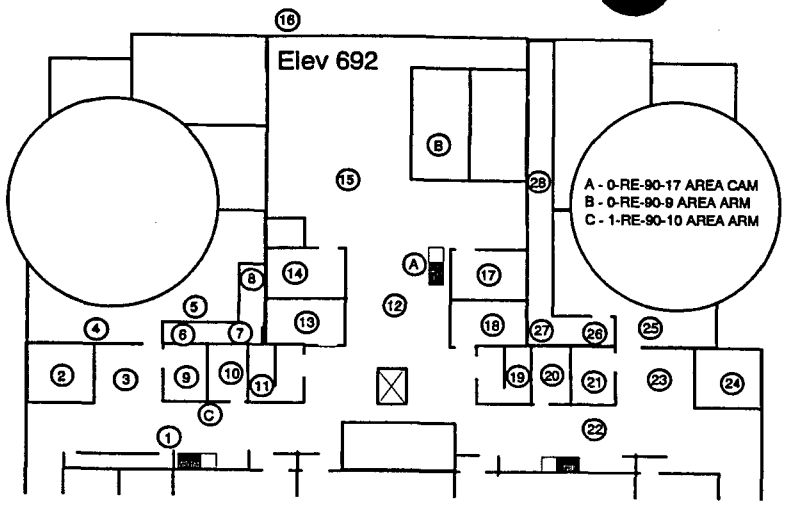
WBN692 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 Near Waste Cond Sys Pump/Filter		Location 16 Cask Decon Tank Room Gen'l Area		Location 17 SI 2A-A		Location 18 SI 2B-B		Location 19 CCP 2C-C		Location 20 CCP 2B-B		Location 21 CCP 2A-A		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	0.08	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	0.07	0.21	<0.05	0.14	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	03:35

WBN692 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 22 Unit 2 End		Location 23 Outside Unit 2 Penetration Rm		Location 24 U-2 TDAFW Pump		Location 25 Unit 2 Penetration Rm		Location 26 U-2 Pipe Chase		Location 27 U-2 Pipe Chase		Location 28 U-2 Pipe Chase		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	<0.05	0.12	<0.05	0.08	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:35

-A- 0-17 692 CAM	-B- WastEvap	-C- 1-108 692 ARM	
1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	MIN to MAX Units
.	.	.	00:00
.	.	.	00:30
.	.	.	01:00
.	.	.	01:30
.	.	.	01:55
.	.	.	02:00
.	.	.	02:05
2.6E+1	1.0E-1	1.0E-1	02:10
1.0E+2	1.0E-1	1.0E-1	02:15
2.4E+2	1.0E-1	1.0E-1	02:20
4.7E+2	1.0E-1	1.0E-1	02:25
8.0E+2	1.0E-1	1.0E-1	02:30
1.2E+3	1.0E-1	1.0E-1	02:35
1.8E+3	1.0E-1	1.0E-1	02:40
2.5E+3	1.0E-1	1.0E-1	02:45
3.3E+3@	1.0E-1	1.0E-1	02:50
4.3E+3@	1.0E-1	1.0E-1	02:55
5.4E+3@	1.0E-1	1.0E-1	03:00
6.6E+3@	1.0E-1	1.0E-1	03:05
8.1E+3@	1.0E-1	1.0E-1	03:10
9.6E+3@	1.0E-1	1.0E-1	03:15
1.1E+4@	1.0E-1	1.0E-1	03:20
1.3E+4@	1.0E-1	1.0E-1	03:25
1.5E+4@	1.0E-1	1.0E-1	03:30
1.9E+4@	1.0E-1	1.0E-1	03:35



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EP Map Points:4, 5
Data Location: U1 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	<100	<2.0	<0.05
02:20	<100	<2.0	<100	<2.0	<0.05
02:25	<100	<2.0	<100	<2.0	<0.05
02:30	<100	<2.0	<100	<2.0	<0.05
02:35	<100	<2.0	<100	<2.0	<0.05
02:40	<100	<2.0	<100	<2.0	<0.05
02:45	<100	<2.0	100	<2.0	<0.05
02:50	<100	<2.0	130	<2.0	<0.05
02:55	<100	<2.0	160	<2.0	<0.05
03:00	<100	<2.0	190	<2.0	<0.05
03:05	<100	<2.0	220	<2.0	<0.05
03:10	<100	<2.0	260	<2.0	<0.05
03:15	<100	<2.0	300	<2.0	<0.05
03:20	<100	<2.0	340	<2.0	<0.05
03:25	<100	<2.0	380	<2.0	<0.05
03:30	<100	<2.0	460	<2.0	<0.05
03:35	<100	<2.0	610	<2.0	<0.05

EP Map Points:6,7,8 Elev 713 14,15
Data Location: U1 Pipe Chase

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	<100	<2.0	<0.05
02:20	<100	<2.0	100	<2.0	<0.05
02:25	<100	<2.0	260	<2.0	<0.05
02:30	<100	<2.0	520	<2.0	<0.05
02:35	<100	<2.0	890	<2.0	<0.05
02:40	<100	<2.0	1300	<2.0	<0.05
02:45	<100	<2.0	1900	<2.0	<0.05
02:50	<100	<2.0	2500	<2.0	<0.05
02:55	<100	<2.0	3300	<2.0	<0.05
03:00	<100	<2.0	4200	<2.0	<0.05
03:05	<100	<2.0	5100	<2.0	<0.05
03:10	<100	<2.0	6100	<2.0	<0.05
03:15	<100	<2.0	7100	<2.0	<0.05
03:20	<100	<2.0	8300	<2.0	<0.05
03:25	<100	<2.0	9400	<2.0	<0.05
03:30	<100	<2.0	10000	<2.0	<0.05
03:35	<100	<2.0	12000	<2.0	<0.05

EP Map Points:25
Data Location: U2 Penetration Roo

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
00:00	<100	<2.0	<100	<2.0
00:30	<100	<2.0	<100	<2.0
01:00	<100	<2.0	<100	<2.0
01:30	<100	<2.0	<100	<2.0
01:55	<100	<2.0	<100	<2.0
02:00	<100	<2.0	<100	<2.0
02:05	<100	<2.0	<100	<2.0
02:10	<100	<2.0	<100	<2.0
02:15	<100	<2.0	<100	<2.0
02:20	<100	<2.0	<100	<2.0
02:25	<100	<2.0	110	<2.0
02:30	<100	<2.0	170	<2.0
02:35	<100	<2.0	240	<2.0
02:40	<100	<2.0	330	<2.0
02:45	<100	<2.0	420	<2.0
02:50	<100	<2.0	530	<2.0
02:55	<100	<2.0	640	<2.0
03:00	<100	<2.0	760	<2.0
03:05	<100	<2.0	900	<2.0
03:10	<100	<2.0	1000	<2.0
03:15	<100	<2.0	1100	<2.0
03:20	<100	<2.0	1300	<2.0
03:25	<100	<2.0	1500	<2.0
03:30	<100	<2.0	1800	<2.0
03:35	<100	<2.0	2400	<2.0

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EP Map Points:26,27,28 Elev 713 20,21
Data Location: U2 Pipe Chase

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	<100	<2.0	<0.05
02:20	<100	<2.0	<100	<2.0	<0.05
02:25	<100	<2.0	110	<2.0	<0.05
02:30	<100	<2.0	110	<2.0	<0.05
02:35	<100	<2.0	190	<2.0	<0.05
02:40	<100	<2.0	300	<2.0	<0.05
02:45	<100	<2.0	440	<2.0	<0.05
02:50	<100	<2.0	610	<2.0	<0.05
02:55	<100	<2.0	810	<2.0	<0.05
03:00	<100	<2.0	1000	<2.0	<0.05
03:05	<100	<2.0	1300	<2.0	<0.05
03:10	<100	<2.0	1600	<2.0	<0.05
03:15	<100	<2.0	1900	<2.0	<0.05
03:20	<100	<2.0	2300	<2.0	<0.05
03:25	<100	<2.0	2700	<2.0	<0.05
03:30	<100	<2.0	3100	<2.0	<0.05
03:35	<100	<2.0	3700	<2.0	<0.05

EP Map Points:2,9,10,11,13,14,17-21,24
Data Location: Rooms off Main Elev

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	<100	<2.0	<0.05
02:15	<100	<2.0	<100	<2.0	<0.05
02:20	<100	<2.0	<100	<2.0	<0.05
02:25	<100	<2.0	<100	<2.0	<0.05
02:30	<100	<2.0	<100	<2.0	<0.05
02:35	<100	<2.0	<100	<2.0	<0.05
02:40	<100	<2.0	<100	<2.0	<0.05
02:45	<100	<2.0	120	<2.0	<0.05
02:50	<100	<2.0	150	<2.0	<0.05
02:55	<100	<2.0	180	<2.0	<0.05
03:00	<100	<2.0	220	<2.0	<0.05
03:05	<100	<2.0	260	<2.0	<0.05
03:10	<100	<2.0	300	<2.0	<0.05
03:15	<100	<2.0	340	<2.0	<0.05
03:20	<100	<2.0	390	<2.0	<0.05
03:25	<100	<2.0	440	<2.0	<0.05
03:30	<100	<2.0	530	<2.0	<0.05
03:35	<100	<2.0	710	<2.0	<0.05

EP Map Points:1,3,12,15,16,22,23
Data Location: Main 692 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05
00:30	<100	<2.0	<100	<2.0	<0.05
01:00	<100	<2.0	<100	<2.0	<0.05
01:30	<100	<2.0	<100	<2.0	<0.05
01:55	<100	<2.0	<100	<2.0	<0.05
02:00	<100	<2.0	<100	<2.0	<0.05
02:05	<100	<2.0	<100	<2.0	<0.05
02:10	<100	<2.0	570	<2.0	<0.05
02:15	<100	<2.0	1200	<2.0	<0.05
02:20	<100	<2.0	1800	<2.0	<0.05
02:25	<100	<2.0	2500	<2.0	<0.05
02:30	<100	<2.0	3200	<2.0	<0.05
02:35	<100	<2.0	4000	<2.0	<0.05
02:40	<100	<2.0	4700	<2.0	<0.05
02:45	<100	<2.0	5400	<2.0	<0.05
02:50	<100	<2.0	6200	<2.0	<0.05
02:55	<100	<2.0	6900	<2.0	<0.05
03:00	<100	<2.0	7600	<2.0	<0.05
03:05	<100	<2.0	8400	<2.0	<0.05
03:10	<100	<2.0	9100	<2.0	<0.05
03:15	<100	<2.0	9800	<2.0	<0.05
03:20	<100	<2.0	10000	<2.0	<0.05
03:25	<100	<2.0	12000	<2.0	<0.05
03:30	<100	<2.0	17000	<2.0	<0.05
03:35	130	<2.0	33000	3.3	<0.05

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Time	Location 1 Unit 1 End		Location 2 U-1 TDAFW Pump		Location 3 Outside Unit 1 Penetration Rm		Location 4 Unit 1 Penetration Rm		Location 5 Unit 1 Penetration Rm		Location 6 U-1 Pipe Chase		Location 7 U-1 Pipe Chase		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	0.06	0.19	0.05	0.15	0.06	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:40
03:45	0.11	0.35	0.09	0.27	0.11	0.34	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:45
03:50	0.18	0.56	0.14	0.44	0.18	0.55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:50
03:55	0.27	0.81	0.21	0.64	0.27	0.81	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:55
04:00	0.37	1.1	0.29	0.87	0.36	1.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	04:00
04:05	0.48	1.4	0.38	1.1	0.48	1.4	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.11	04:05
04:10	0.60	1.8	0.48	1.4	0.60	1.8	<0.05	0.06	<0.05	<0.05	<0.05	0.11	0.05	0.16	04:10
04:15	0.74	2.2	0.58	1.7	0.73	2.2	<0.05	0.07	<0.05	<0.05	0.05	0.15	0.08	0.23	04:15
04:20	0.88	2.6	0.70	2.0	0.88	2.6	<0.05	0.10	<0.05	<0.05	0.07	0.21	0.11	0.32	04:20
04:25	1.0	3.1	0.82	2.4	1.0	3.0	0.05	0.12	<0.05	0.05	0.09	0.29	0.14	0.43	04:25
04:30	1.1	3.5	0.94	2.8	1.1	3.5	0.06	0.15	<0.05	0.07	0.12	0.37	0.19	0.56	04:30
04:35	1.3	4.0	1.0	3.2	1.3	4.0	0.08	0.18	<0.05	0.08	0.16	0.47	0.24	0.71	04:35
04:40	1.5	4.5	1.2	3.6	1.5	4.5	0.09	0.22	<0.05	0.10	0.19	0.59	0.29	0.88	04:40
04:45	1.7	5.1	1.3	4.0	1.7	5.0	0.10	0.26	<0.05	0.12	0.24	0.72	0.36	1.0	04:45
04:50	1.8	5.6	1.4	4.4	1.8	5.5	0.12	0.30	0.05	0.14	0.28	0.86	0.43	1.2	04:50
04:55	2.0	6.1	1.6	4.8	2.0	6.0	0.14	0.35	0.06	0.17	0.34	1.0	0.51	1.5	04:55
05:00	2.2	6.5	1.7	5.2	2.1	6.5	0.16	0.40	0.07	0.19	0.39	1.1	0.59	1.7	05:00
05:05	2.3	7.0	1.8	5.5	2.3	6.9	0.18	0.45	0.08	0.22	0.46	1.3	0.69	2.0	05:05
05:10	2.4	7.4	1.9	5.8	2.4	7.3	0.19	0.50	0.09	0.24	0.52	1.5	0.78	2.3	05:10
05:15	2.5	7.7	2.0	6.1	2.5	7.6	0.21	0.55	0.10	0.27	0.58	1.7	0.88	2.6	05:15
05:20	2.6	8.0	2.1	6.3	2.6	7.9	0.23	0.61	0.12	0.30	0.65	1.9	0.98	2.9	05:20
05:25	2.7	8.2	2.1	6.5	2.7	8.1	0.25	0.66	0.13	0.33	0.72	2.1	1.0	3.2	05:25
05:30	2.8	8.4	2.2	6.6	2.8	8.3	0.27	0.72	0.14	0.36	0.79	2.3	1.1	3.5	05:30
05:35	2.8	8.5	2.2	6.7	2.8	8.5	0.29	0.77	0.15	0.39	0.86	2.5	1.2	3.8	05:35
05:40	2.9	8.6	2.2	6.8	2.8	8.5	0.31	0.83	0.16	0.42	0.92	2.7	1.3	4.1	05:40

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Time	Location 8 U-1 Pipe Chase		Location 9 CCP 1A-A		Location 10 CCP 1B-B		Location 11 CCP 1C-C		Location 12 Near Elevator		Location 13 SI 1B-B		Location 14 SI 1A-A		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	<0.05	<0.05	<0.05	0.08	<0.05	0.11	<0.05	0.06	0.11	0.33	0.05	0.16	<0.05	0.09	03:40
03:45	<0.05	<0.05	<0.05	0.14	0.07	0.21	<0.05	0.12	0.20	0.62	0.09	0.29	0.06	0.18	03:45
03:50	<0.05	<0.05	0.07	0.23	0.11	0.34	0.06	0.19	0.33	0.98	0.15	0.47	0.09	0.28	03:50
03:55	<0.05	<0.05	0.11	0.34	0.16	0.50	0.09	0.27	0.48	1.4	0.22	0.68	0.14	0.41	03:55
04:00	<0.05	<0.05	0.15	0.46	0.23	0.68	0.12	0.38	0.65	1.9	0.31	0.93	0.19	0.57	04:00
04:05	<0.05	0.07	0.20	0.61	0.30	0.89	0.16	0.49	0.85	2.5	0.40	1.2	0.24	0.74	04:05
04:10	<0.05	0.11	0.25	0.76	0.37	1.1	0.20	0.62	1.0	3.2	0.51	1.5	0.31	0.93	04:10
04:15	0.05	0.15	0.31	0.93	0.46	1.3	0.25	0.76	1.3	3.9	0.62	1.8	0.38	1.1	04:15
04:20	0.07	0.21	0.37	1.1	0.54	1.6	0.30	0.90	1.5	4.6	0.74	2.2	0.45	1.3	04:20
04:25	0.09	0.29	0.43	1.3	0.64	1.9	0.35	1.0	1.8	5.4	0.87	2.6	0.53	1.5	04:25
04:30	0.12	0.37	0.50	1.5	0.74	2.2	0.41	1.2	2.1	6.3	1.0	3.0	0.61	1.8	04:30
04:35	0.16	0.47	0.57	1.7	0.84	2.5	0.46	1.3	2.4	7.1	1.1	3.4	0.70	2.0	04:35
04:40	0.19	0.59	0.64	1.9	0.94	2.8	0.52	1.5	2.7	8.0	1.2	3.8	0.78	2.3	04:40
04:45	0.24	0.72	0.72	2.1	1.0	3.1	0.58	1.7	3.0	9.0	1.4	4.3	0.88	2.6	04:45
04:50	0.28	0.86	0.79	2.3	1.1	3.4	0.64	1.9	3.3	9.9	1.5	4.7	0.96	2.8	04:50
04:55	0.34	1.0	0.86	2.5	1.2	3.7	0.70	2.0	3.6	10	1.7	5.1	1.0	3.1	04:55
05:00	0.39	1.1	0.93	2.7	1.3	4.0	0.75	2.2	3.8	11	1.8	5.5	1.1	3.3	05:00
05:05	0.46	1.3	0.99	2.9	1.4	4.3	0.80	2.4	4.1	12	1.9	5.9	1.2	3.6	05:05
05:10	0.52	1.5	1.0	3.1	1.5	4.5	0.85	2.5	4.3	13	2.0	6.2	1.2	3.8	05:10
05:15	0.58	1.7	1.0	3.2	1.6	4.7	0.88	2.6	4.5	13	2.1	6.5	1.3	3.9	05:15
05:20	0.65	1.9	1.1	3.3	1.6	4.9	0.92	2.7	4.7	14	2.2	6.7	1.3	4.1	05:20
05:25	0.72	2.1	1.1	3.4	1.7	5.0	0.94	2.8	4.8	14	2.3	6.9	1.4	4.2	05:25
05:30	0.79	2.3	1.1	3.5	1.7	5.2	0.96	2.8	4.9	14	2.3	7.0	1.4	4.3	05:30
05:35	0.86	2.5	1.2	3.6	1.7	5.2	0.98	2.9	5.0	15	2.4	7.2	1.4	4.3	05:35
05:40	0.92	2.7	1.2	3.6	1.8	5.3	0.99	2.9	5.1	15	2.4	7.2	1.4	4.4	05:40

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Time	Location 15 Near Waste Cond Sys Pump/Filter		Location 16 Cask Decon Tank Room Gen'l Area		Location 17 SI 2A-A		Location 18 SI 2B-B		Location 19 CCP 2C-C		Location 20 CCP 2B-B		Location 21 CCP 2A-A		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	0.15	0.46	0.10	0.30	<0.05	0.09	0.05	0.16	<0.05	0.06	<0.05	0.11	<0.05	0.08	03:40
03:45	0.28	0.85	0.18	0.56	0.06	0.18	0.09	0.29	<0.05	0.12	0.07	0.21	<0.05	0.14	03:45
03:50	0.45	1.3	0.30	0.90	0.09	0.28	0.15	0.47	0.06	0.19	0.11	0.34	0.07	0.23	03:50
03:55	0.66	1.9	0.43	1.3	0.14	0.41	0.22	0.68	0.09	0.27	0.16	0.50	0.11	0.34	03:55
04:00	0.90	2.6	0.59	1.7	0.19	0.57	0.31	0.93	0.12	0.38	0.23	0.68	0.15	0.46	04:00
04:05	1.1	3.5	0.77	2.3	0.24	0.74	0.40	1.2	0.16	0.49	0.30	0.89	0.20	0.61	04:05
04:10	1.4	4.4	0.97	2.9	0.31	0.93	0.51	1.5	0.20	0.62	0.37	1.1	0.25	0.76	04:10
04:15	1.8	5.3	1.1	3.5	0.38	1.1	0.62	1.8	0.25	0.76	0.46	1.3	0.31	0.93	04:15
04:20	2.1	6.4	1.4	4.2	0.45	1.3	0.74	2.2	0.30	0.90	0.54	1.6	0.37	1.1	04:20
04:25	2.5	7.5	1.6	4.9	0.53	1.5	0.87	2.6	0.35	1.0	0.64	1.9	0.43	1.3	04:25
04:30	2.9	8.6	1.9	5.7	0.61	1.8	1.0	3.0	0.41	1.2	0.74	2.2	0.50	1.5	04:30
04:35	3.3	9.8	2.1	6.5	0.70	2.0	1.1	3.4	0.46	1.3	0.84	2.5	0.57	1.7	04:35
04:40	3.7	11	2.4	7.3	0.78	2.3	1.2	3.8	0.52	1.5	0.94	2.8	0.64	1.9	04:40
04:45	4.1	12	2.7	8.2	0.88	2.6	1.4	4.3	0.58	1.7	1.0	3.1	0.72	2.1	04:45
04:50	4.5	13	3.0	9.0	0.96	2.8	1.5	4.7	0.64	1.9	1.1	3.4	0.79	2.3	04:50
04:55	4.9	14	3.3	9.8	1.0	3.1	1.7	5.1	0.70	2.0	1.2	3.7	0.86	2.5	04:55
05:00	5.3	15	3.5	10	1.1	3.3	1.8	5.5	0.75	2.2	1.3	4.0	0.93	2.7	05:00
05:05	5.7	17	3.7	11	1.2	3.6	1.9	5.9	0.80	2.4	1.4	4.3	0.99	2.9	05:05
05:10	6.0	17	3.9	11	1.2	3.8	2.0	6.2	0.85	2.5	1.5	4.5	1.0	3.1	05:10
05:15	6.2	18	4.1	12	1.3	3.9	2.1	6.5	0.88	2.6	1.6	4.7	1.0	3.2	05:15
05:20	6.5	19	4.3	12	1.3	4.1	2.2	6.7	0.92	2.7	1.6	4.9	1.1	3.3	05:20
05:25	6.6	19	4.4	13	1.4	4.2	2.3	6.9	0.94	2.8	1.7	5.0	1.1	3.4	05:25
05:30	6.8	20	4.5	13	1.4	4.3	2.3	7.0	0.96	2.8	1.7	5.2	1.1	3.5	05:30
05:35	6.9	20	4.6	13	1.4	4.3	2.4	7.2	0.98	2.9	1.7	5.2	1.2	3.6	05:35
05:40	7.0	20	4.6	13	1.4	4.4	2.4	7.2	0.99	2.9	1.8	5.3	1.2	3.6	05:40

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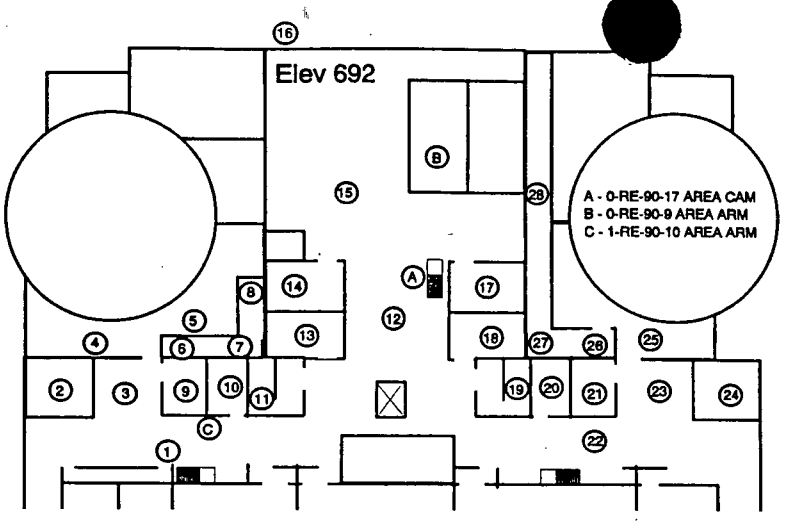
Time	Location 22 Unit 2 End		Location 23 Outside Unit 2 Penetration Rm		Location 24 U-2 TDAFW Pump		Location 25 Unit 2 Penetration Rm		Location 26 U-2 Pipe Chase		Location 27 U-2 Pipe Chase		Location 28 U-2 Pipe Chase		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	0.09	0.27	0.06	0.19	0.05	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:40
03:45	0.16	0.50	0.11	0.34	0.09	0.27	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:45
03:50	0.26	0.80	0.18	0.55	0.14	0.44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:50
03:55	0.38	1.1	0.27	0.81	0.21	0.64	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:55
04:00	0.53	1.5	0.36	1.1	0.29	0.87	<0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:00
04:05	0.69	2.0	0.48	1.4	0.38	1.1	0.05	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:05
04:10	0.86	2.6	0.60	1.8	0.48	1.4	0.07	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:10
04:15	1.0	3.1	0.73	2.2	0.58	1.7	0.10	0.28	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	04:15
04:20	1.2	3.7	0.88	2.6	0.70	2.0	0.13	0.36	<0.05	0.05	<0.05	0.07	<0.05	0.05	04:20
04:25	1.4	4.4	1.0	3.0	0.82	2.4	0.16	0.45	<0.05	0.06	<0.05	0.10	<0.05	0.06	04:25
04:30	1.7	5.1	1.1	3.5	0.94	2.8	0.20	0.56	<0.05	0.09	<0.05	0.13	<0.05	0.09	04:30
04:35	1.9	5.8	1.3	4.0	1.0	3.2	0.24	0.67	<0.05	0.11	0.06	0.17	<0.05	0.11	04:35
04:40	2.1	6.5	1.5	4.5	1.2	3.6	0.29	0.81	0.05	0.15	0.07	0.22	0.05	0.15	04:40
04:45	2.4	7.3	1.7	5.0	1.3	4.0	0.34	0.95	0.06	0.18	0.09	0.28	0.06	0.18	04:45
04:50	2.6	8.0	1.8	5.5	1.4	4.4	0.39	1.1	0.07	0.23	0.11	0.34	0.07	0.23	04:50
04:55	2.9	8.7	2.0	6.0	1.6	4.8	0.45	1.2	0.09	0.27	0.13	0.41	0.09	0.27	04:55
05:00	3.1	9.3	2.1	6.5	1.7	5.2	0.51	1.4	0.11	0.33	0.16	0.49	0.11	0.33	05:00
05:05	3.3	10	2.3	7.0	1.8	5.5	0.57	1.6	0.13	0.38	0.19	0.58	0.13	0.38	05:05
05:10	3.5	10	2.4	7.3	1.9	5.8	0.64	1.8	0.15	0.45	0.22	0.67	0.15	0.45	05:10
05:15	3.6	11	2.5	7.6	2.0	6.1	0.71	2.0	0.17	0.52	0.26	0.78	0.17	0.52	05:15
05:20	3.8	11	2.6	7.9	2.1	6.3	0.78	2.2	0.19	0.59	0.29	0.89	0.19	0.59	05:20
05:25	3.9	11	2.7	8.1	2.1	6.5	0.85	2.4	0.22	0.67	0.33	1.0	0.22	0.67	05:25
05:30	4.0	12	2.8	8.3	2.2	6.6	0.91	2.6	0.25	0.75	0.37	1.1	0.25	0.75	05:30
05:35	4.0	12	2.8	8.5	2.2	6.7	0.98	2.8	0.28	0.83	0.42	1.2	0.28	0.83	05:35
05:40	4.1	12	2.8	8.6	2.2	6.8	1.0	3.0	0.30	0.92	0.46	1.3	0.30	0.92	05:40

-A- 0-17 692 CAM	-B- WastEvap	-C- 1-10B 692 ARM	
1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	MIN to MAX Units
2.5E+4@	1.5E-1	1.0E-1	03:40
3.6E+4@	2.8E-1	1.5E-1	03:45
5.6E+4@	4.4E-1	2.4E-1	03:50
9.0E+4@	6.5E-1	3.6E-1	03:55
1.4E+5@	8.8E-1	4.9E-1	04:00
2.2E+5@	1.1E+0	6.4E-1	04:05
3.3E+5@	1.4E+0	8.0E-1	04:10
4.7E+5@	1.7E+0	9.8E-1	04:15
6.7E+5@	2.1E+0	1.1E+0	04:20
9.2E+5@	2.4E+0	1.3E+0	04:25
1.2E+6@	2.8E+0	1.5E+0	04:30
1.5E+6@	3.2E+0	1.8E+0	04:35
2.0E+6@	3.6E+0	2.0E+0	04:40
2.5E+6@	4.1E+0	2.2E+0	04:45
3.1E+6@	4.5E+0	2.5E+0	04:50
3.8E+6@	4.9E+0	2.7E+0	04:55
4.5E+6@	5.2E+0	2.9E+0	05:00
5.4E+6@	5.6E+0	3.1E+0	05:05
6.3E+6@	5.9E+0	3.3E+0	05:10
7.3E+6@	6.2E+0	3.4E+0	05:15
8.4E+6@	6.4E+0	3.5E+0	05:20
9.5E+6@	6.6E+0	3.6E+0	05:25
OffHigh	6.7E+0	3.7E+0	05:30
OffHigh	6.8E+0	3.8E+0	05:35
OffHigh	6.9E+0	3.8E+0	05:40



WBN692 08-04-1993 15:08:59 wbn93ge — Watts Bar Nuclear Plant

	EP Map Points:4, 5 Data Location: U1 Penetration Room					EP Map Points:6,7,8 Elev 713 14,15 Data Location: U1 Pipe Chase					EP Map Points:25 Data Location: U2 Penetration Roc					EP Map Points:26,27,28 Elev 713 20,21 Data Location: U2 Pipe Chase					EP Map Points:2,9,10,11,13,14,17-21,24 Data Location: Rooms off Main Elev					EP Map Points:1,3,12,15,16,22,23 Data Location: Main 692 Elevation				
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG
Time	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR
03:40	<100	<2.0	950	<2.0	<0.05	<100	<2.0	16000	<2.0	<0.05	<100	<2.0	3800	<2.0	<0.05	<100	<2.0	4600	<2.0	<0.05	<100	<2.0	1100	<2.0	<0.05	230	<2.0	OffHigh	6.7	<0.05
03:45	<100	<2.0	1600	<2.0	<0.05	100	<2.0	23000	2.3	<0.05	<100	<2.0	6500	<2.0	<0.05	<100	<2.0	6300	<2.0	<0.05	<100	<2.0	1800	<2.0	<0.05	420	<2.0	OffHigh	13	<0.05
03:50	<100	<2.0	2800	<2.0	<0.05	150	<2.0	38000	3.8	<0.05	<100	<2.0	11000	<2.0	<0.05	<100	<2.0	9700	<2.0	<0.05	<100	<2.0	3200	<2.0	<0.05	740	<2.0	OffHigh	22	<0.05
03:55	<100	<2.0	4700	<2.0	<0.05	230	<2.0	OffHigh	6.6	<0.05	<100	<2.0	19000	<2.0	<0.05	<100	<2.0	15000	<2.0	<0.05	<100	<2.0	5400	<2.0	<0.05	1200	<2.0	OffHigh	36	<0.05
04:00	<100	<2.0	7500	<2.0	<0.05	380	<2.0	OffHigh	11	<0.05	100	<2.0	30000	3.0	<0.05	<100	<2.0	25000	2.5	<0.05	<100	<2.0	8700	<2.0	<0.05	1900	<2.0	OffHigh	53	0.05
04:05	<100	<2.0	11000	<2.0	<0.05	620	<2.0	OffHigh	18	<0.05	160	<2.0	46000	4.6	<0.05	140	<2.0	41000	4.1	<0.05	<100	<2.0	13000	<2.0	<0.05	2900	<2.0	OffHigh	74	0.06
04:10	<100	<2.0	16000	<2.0	<0.05	980	<2.0	OffHigh	27	<0.05	250	<2.0	OffHigh	6.6	<0.05	220	<2.0	OffHigh	6.4	<0.05	<100	<2.0	18000	<2.0	<0.05	4100	<2.0	OffHigh	99	0.08
04:15	<100	<2.0	22000	2.2	<0.05	1400	<2.0	OffHigh	41	<0.05	360	<2.0	OffHigh	9.2	<0.05	340	<2.0	OffHigh	9.5	<0.05	100	<2.0	26000	2.6	<0.05	5600	<2.0	OffHigh	120	0.10
04:20	120	<2.0	30000	3.0	<0.05	2200	<2.0	OffHigh	57	<0.05	510	<2.0	OffHigh	12	<0.05	510	<2.0	OffHigh	13	<0.05	140	<2.0	35000	3.5	<0.05	7300	<2.0	OffHigh	150	0.12
04:25	170	<2.0	39000	3.9	<0.05	3100	<2.0	OffHigh	78	<0.05	690	<2.0	OffHigh	16	<0.05	740	<2.0	OffHigh	19	<0.05	190	<2.0	45000	4.5	<0.05	9400	<2.0	OffHigh	190	0.14
04:30	220	<2.0	OffHigh	5.0	<0.05	4300	<2.0	OffHigh	100	0.06	920	<2.0	OffHigh	20	<0.05	1000	<2.0	OffHigh	25	<0.05	260	<2.0	OffHigh	5.8	<0.05	11000	<2.0	OffHigh	220	0.17
04:35	290	<2.0	OffHigh	6.2	<0.05	5800	<2.0	OffHigh	130	0.07	1100	<2.0	OffHigh	25	<0.05	1400	<2.0	OffHigh	33	<0.05	340	<2.0	OffHigh	7.2	<0.05	14000	<2.0	OffHigh	260	0.19
04:40	370	<2.0	OffHigh	7.6	<0.05	7600	<2.0	OffHigh	160	0.09	1500	<2.0	OffHigh	30	<0.05	1900	<2.0	OffHigh	43	<0.05	430	<2.0	OffHigh	8.8	<0.05	17000	<2.0	OffHigh	300	0.21
04:45	460	<2.0	OffHigh	9.2	<0.05	9700	<2.0	OffHigh	200	0.11	1800	<2.0	OffHigh	36	<0.05	2400	<2.0	OffHigh	54	<0.05	530	<2.0	OffHigh	10	<0.05	20000	2.0	OffHigh	340	0.24
04:50	570	<2.0	OffHigh	10	<0.05	12000	<2.0	OffHigh	240	0.14	2200	<2.0	OffHigh	43	<0.05	3100	<2.0	OffHigh	66	<0.05	660	<2.0	OffHigh	12	<0.05	23000	2.3	OffHigh	380	0.26
04:55	690	<2.0	OffHigh	12	<0.05	15000	<2.0	OffHigh	290	0.16	2700	<2.0	OffHigh	50	<0.05	3900	<2.0	OffHigh	80	<0.05	790	<2.0	OffHigh	14	<0.05	27000	2.7	OffHigh	420	0.28
05:00	820	<2.0	OffHigh	14	<0.05	18000	<2.0	OffHigh	340	0.19	3200	<2.0	OffHigh	57	<0.05	4900	<2.0	OffHigh	96	0.05	940	<2.0	OffHigh	16	<0.05	30000	3.0	OffHigh	460	0.30
05:05	960	<2.0	OffHigh	16	<0.05	21000	2.1	OffHigh	390	0.22	3800	<2.0	OffHigh	65	<0.05	6000	<2.0	OffHigh	110	0.06	1100	<2.0	OffHigh	19	<0.05	33000	3.3	OffHigh	490	0.32
05:10	1100	<2.0	OffHigh	18	<0.05	25000	2.5	OffHigh	450	0.25	4400	<2.0	OffHigh	73	<0.05	7200	<2.0	OffHigh	130	0.07	1200	<2.0	OffHigh	21	<0.05	37000	3.7	OffHigh	520	0.34
05:15	1200	<2.0	OffHigh	21	<0.05	30000	3.0	OffHigh	510	0.28	5000	<2.0	OffHigh	81	<0.05	8500	<2.0	OffHigh	150	0.08	1400	<2.0	OffHigh	24	<0.05	40000	4.0	OffHigh	550	0.35
05:20	1400	<2.0	OffHigh	23	<0.05	34000	3.4	OffHigh	570	0.31	5700	<2.0	OffHigh	90	<0.05	10000	<2.0	OffHigh	170	0.09	1600	<2.0	OffHigh	26	<0.05	44000	4.4	OffHigh	570	0.36
05:25	1600	<2.0	OffHigh	25	<0.05	39000	3.9	OffHigh	630	0.34	6400	<2.0	OffHigh	98	<0.05	11000	<2.0	OffHigh	190	0.10	1900	<2.0	OffHigh	29	<0.05	47000	4.7	OffHigh	590	0.37
05:30	1800	<2.0	OffHigh	27	<0.05	44000	4.4	OffHigh	690	0.36	7200	<2.0	OffHigh	100	<0.05	13000	<2.0	OffHigh	220	0.11	2100	<2.0	OffHigh	31	<0.05	OffHigh	5.0	OffHigh	610	0.37
05:35	2000	<2.0	OffHigh	29	<0.05	49000	4.9	OffHigh	740	0.39	7900	<2.0	OffHigh	110	<0.05	15000	<2.0	OffHigh	240	0.12	2300	<2.0	OffHigh	34	<0.05	OffHigh	5.3	OffHigh	620	0.37
05:40	2200	<2.0	OffHigh	32	<0.05	OffHigh	5.5	OffHigh	800	0.42	8700	<2.0	OffHigh	120	<0.05	17000	<2.0	OffHigh	260	0.13	2500	<2.0	OffHigh	36	<0.05	OffHigh	5.5	OffHigh	620	0.37

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Time	Location 1 Unit 1 End		Location 2 U-1 TDAFW Pump		Location 3 Outside Unit 1 Penetration Rm		Location 4 Unit 1 Penetration Rm		Location 5 Unit 1 Penetration Rm		Location 6 U-1 Pipe Chase		Location 7 U-1 Pipe Chase		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	2.9	8.6	2.3	6.8	2.9	8.6	0.33	0.88	0.18	0.45	0.99	2.9	1.4	4.4	
05:50	2.9	8.6	2.2	6.8	2.8	8.5	0.35	0.93	0.19	0.48	1.0	3.1	1.5	4.7	
05:55	2.8	8.6	2.2	6.8	2.8	8.5	0.36	0.99	0.20	0.51	1.1	3.3	1.6	4.9	
06:00	2.8	8.4	2.2	6.6	2.8	8.4	0.38	1.0	0.21	0.54	1.1	3.4	1.7	5.1	
06:05	2.7	8.3	2.2	6.5	2.7	8.2	0.39	1.0	0.22	0.56	1.2	3.6	1.8	5.4	
06:10	2.7	8.1	2.1	6.4	2.7	8.1	0.41	1.1	0.23	0.58	1.2	3.7	1.8	5.5	
06:15	2.6	8.0	2.1	6.3	2.6	7.9	0.42	1.1	0.24	0.61	1.2	3.8	1.9	5.7	
06:20	2.6	7.8	2.0	6.1	2.6	7.7	0.44	1.2	0.25	0.63	1.3	3.9	1.9	5.8	
06:25	2.5	7.6	2.0	6.0	2.5	7.6	0.45	1.2	0.25	0.65	1.3	3.9	2.0	5.9	
06:30	2.5	7.5	2.0	5.9	2.5	7.5	0.46	1.2	0.26	0.67	1.3	4.0	2.0	6.0	
06:40	2.4	7.2	1.9	5.7	2.4	7.1	0.48	1.3	0.27	0.71	1.3	4.1	2.0	6.1	
06:50	2.3	7.0	1.8	5.5	2.3	6.9	0.50	1.4	0.28	0.74	1.3	4.1	2.0	6.2	
07:00	2.2	6.7	1.7	5.3	2.2	6.6	0.52	1.4	0.29	0.77	1.3	4.1	2.0	6.1	
07:10	2.1	6.5	1.7	5.1	2.1	6.4	0.54	1.5	0.30	0.80	1.3	4.0	2.0	6.0	
07:20	2.1	6.2	1.6	4.9	2.1	6.2	0.55	1.5	0.31	0.82	1.3	3.9	1.9	5.8	
07:30	2.0	6.0	1.6	4.7	2.0	6.0	0.57	1.6	0.32	0.84	1.2	3.8	1.9	5.7	
07:40	1.9	5.8	1.5	4.6	1.9	5.8	0.58	1.6	0.32	0.86	1.2	3.6	1.8	5.5	
07:50	1.8	5.6	1.5	4.4	1.8	5.6	0.59	1.7	0.33	0.88	1.1	3.5	1.7	5.2	
08:00	1.8	5.4	1.4	4.3	1.8	5.4	0.60	1.7	0.33	0.90	1.1	3.3	1.7	5.0	

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Time	Location 8 U-1 Pipe Chase		Location 9 CCP 1A-A		Location 10 CCP 1B-B		Location 11 CCP 1C-C		Location 12 Near Elevator		Location 13 SI 1B-B		Location 14 SI 1A-A		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	0.99	2.9	1.2	3.6	1.8	5.3	1.0	2.9	5.1	15	2.4	7.3	1.5	4.4	05:45
05:50	1.0	3.1	1.2	3.6	1.8	5.3	0.99	2.9	5.1	15	2.4	7.2	1.4	4.4	05:50
05:55	1.1	3.3	1.2	3.6	1.7	5.3	0.99	2.9	5.1	15	2.4	7.2	1.4	4.4	05:55
06:00	1.1	3.4	1.2	3.5	1.7	5.2	0.97	2.9	5.0	14	2.4	7.1	1.4	4.3	06:00
06:05	1.2	3.6	1.1	3.5	1.7	5.1	0.96	2.8	4.9	14	2.3	7.0	1.4	4.2	06:05
06:10	1.2	3.7	1.1	3.4	1.7	5.0	0.94	2.7	4.8	14	2.3	6.8	1.4	4.1	06:10
06:15	1.2	3.8	1.1	3.3	1.6	4.9	0.92	2.7	4.7	14	2.2	6.7	1.3	4.1	06:15
06:20	1.3	3.9	1.1	3.3	1.6	4.8	0.90	2.6	4.6	13	2.2	6.6	1.3	4.0	06:20
06:25	1.3	3.9	1.0	3.2	1.6	4.7	0.88	2.6	4.5	13	2.1	6.4	1.3	3.9	06:25
06:30	1.3	4.0	1.0	3.1	1.5	4.6	0.87	2.5	4.4	13	2.1	6.3	1.3	3.8	06:30
06:40	1.3	4.1	1.0	3.0	1.5	4.4	0.83	2.4	4.3	12	2.0	6.1	1.2	3.7	06:40
06:50	1.3	4.1	0.99	2.9	1.4	4.3	0.80	2.4	4.1	12	1.9	5.9	1.2	3.6	06:50
07:00	1.3	4.1	0.95	2.8	1.4	4.1	0.77	2.3	4.0	11	1.9	5.6	1.1	3.4	07:00
07:10	1.3	4.0	0.92	2.7	1.3	4.0	0.75	2.2	3.8	11	1.8	5.4	1.1	3.3	07:10
07:20	1.3	3.9	0.89	2.6	1.3	3.8	0.72	2.1	3.7	11	1.7	5.2	1.0	3.2	07:20
07:30	1.2	3.8	0.86	2.5	1.2	3.7	0.69	2.0	3.6	10	1.7	5.1	1.0	3.1	07:30
07:40	1.2	3.6	0.83	2.4	1.2	3.6	0.67	2.0	3.4	10	1.6	4.9	1.0	3.0	07:40
07:50	1.1	3.5	0.80	2.3	1.1	3.4	0.65	1.9	3.3	9.9	1.6	4.7	0.97	2.8	07:50
08:00	1.1	3.3	0.77	2.2	1.1	3.3	0.63	1.8	3.2	9.6	1.5	4.5	0.94	2.8	08:00

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Time	Location 15 Near Waste Cond Sys Pump/Filter		Location 16 Cask Decon Tank Room Gen'l Area		Location 17 SI 2A-A		Location 18 SI 2B-B		Location 19 CCP 2C-C		Location 20 CCP 2B-B		Location 21 CCP 2A-A		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	7.0	21	4.7	13	1.5	4.4	2.4	7.3	1.0	2.9	1.8	5.3	1.2	3.6	
05:50	7.0	20	4.6	13	1.4	4.4	2.4	7.2	0.99	2.9	1.8	5.3	1.2	3.6	
05:55	7.0	20	4.6	13	1.4	4.4	2.4	7.2	0.99	2.9	1.7	5.3	1.2	3.6	
06:00	6.8	20	4.5	13	1.4	4.3	2.4	7.1	0.97	2.9	1.7	5.2	1.2	3.5	
06:05	6.7	20	4.5	13	1.4	4.2	2.3	7.0	0.96	2.8	1.7	5.1	1.1	3.5	
06:10	6.6	19	4.4	13	1.4	4.1	2.3	6.8	0.94	2.7	1.7	5.0	1.1	3.4	
06:15	6.5	19	4.3	12	1.3	4.1	2.2	6.7	0.92	2.7	1.6	4.9	1.1	3.3	
06:20	6.3	18	4.2	12	1.3	4.0	2.2	6.6	0.90	2.6	1.6	4.8	1.1	3.3	
06:25	6.2	18	4.1	12	1.3	3.9	2.1	6.4	0.88	2.6	1.6	4.7	1.0	3.2	
06:30	6.1	18	4.0	12	1.3	3.8	2.1	6.3	0.87	2.5	1.5	4.6	1.0	3.1	
06:40	5.9	17	3.9	11	1.2	3.7	2.0	6.1	0.83	2.4	1.5	4.4	1.0	3.0	
06:50	5.7	16	3.8	11	1.2	3.6	1.9	5.9	0.80	2.4	1.4	4.3	0.99	2.9	
07:00	5.4	16	3.6	10	1.1	3.4	1.9	5.6	0.77	2.3	1.4	4.1	0.95	2.8	
07:10	5.3	15	3.5	10	1.1	3.3	1.8	5.4	0.75	2.2	1.3	4.0	0.92	2.7	
07:20	5.1	15	3.4	10	1.0	3.2	1.7	5.2	0.72	2.1	1.3	3.8	0.89	2.6	
07:30	4.9	14	3.2	9.7	1.0	3.1	1.7	5.1	0.69	2.0	1.2	3.7	0.86	[illegible]	
07:40	[illegible]	14	3.1	9.4	1.0	3.0	1.6	4.9	0.67	2.0	1.2	3.6	0.83	[illegible]	
07:5[illegible]	[illegible]	13	3.0	9.0	0.97	2.8	1.6	4.7	0.65	1.9	1.1	3.4	0.8[illegible]	[illegible]	
08:[illegible]	[illegible]	13	2.9	8.7	0.94	2.8	1.5	4.5	0.63	1.8	1.1	3.3	0.7[illegible]	[illegible]	

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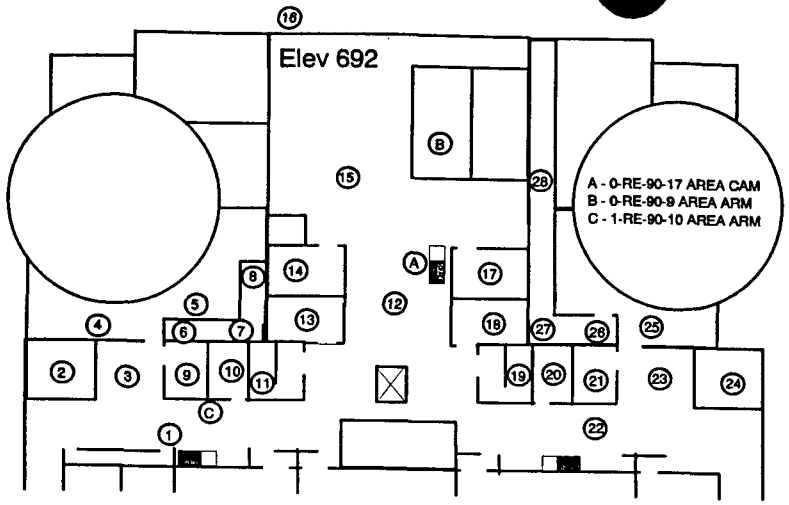
Time	Location 22 Unit 2 End		Location 23 Outside Unit 2 Penetration Rm		Location 24 U-2 TDAFW Pump		Location 25 Unit 2 Penetration Rm		Location 26 U-2 Pipe Chase		Location 27 U-2 Pipe Chase		Location 28 U-2 Pipe Chase		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	4.1	12	2.9	8.6	2.3	6.8	1.1	3.2	0.33	1.0	0.50	1.5	0.33	1.0	05:45
05:50	4.1	12	2.8	8.6	2.2	6.8	1.1	3.3	0.36	1.0	0.55	1.6	0.36	1.0	05:50
05:55	4.1	12	2.8	8.5	2.2	6.8	1.2	3.5	0.39	1.1	0.59	1.7	0.39	1.1	05:55
06:00	4.0	12	2.8	8.4	2.2	6.6	1.2	3.7	0.42	1.2	0.63	1.9	0.42	1.2	06:00
06:05	3.9	11	2.7	8.2	2.2	6.5	1.3	3.8	0.45	1.3	0.68	2.0	0.45	1.3	06:05
06:10	3.9	11	2.7	8.1	2.1	6.4	1.3	4.0	0.48	1.4	0.72	2.1	0.48	1.4	06:10
06:15	3.8	11	2.6	7.9	2.1	6.3	1.4	4.1	0.51	1.5	0.76	2.2	0.51	1.5	06:15
06:20	3.7	11	2.6	7.7	2.0	6.1	1.4	4.2	0.53	1.6	0.80	2.4	0.53	1.6	06:20
06:25	3.6	10	2.5	7.6	2.0	6.0	1.5	4.4	0.56	1.6	0.84	2.5	0.56	1.6	06:25
06:30	3.6	10	2.5	7.5	2.0	5.9	1.5	4.5	0.58	1.7	0.87	2.6	0.58	1.7	06:30
06:40	3.4	10	2.4	7.2	1.9	5.7	1.6	4.7	0.63	1.8	0.94	2.8	0.63	1.8	06:40
06:50	3.3	10	2.3	6.9	1.8	5.5	1.6	4.8	0.66	1.9	0.99	2.9	0.66	1.9	06:50
07:00	3.2	9.6	2.2	6.7	1.7	5.3	1.7	5.0	0.69	2.0	1.0	3.1	0.69	2.0	07:00
07:10	3.1	9.2	2.1	6.4	1.7	5.1	1.7	5.1	0.72	2.1	1.0	3.2	0.72	2.1	07:1[illegible]
07:20	3.0	8.9	2.1	6.2	1.6	4.9	1.7	5.2	0.74	2.2	1.1	3.3	0.74	2.2	07:2[illegible]
07:30	2.9	8.6	2.0	6.0	1.6	4.7	1.8	5.3	0.75	2.2	1.1	3.3	[illegible]	2.2	07:30
07:40	2.8	8.3	1.9	5.8	1.5	4.6	1.8	5.4	0.76	2.2	1.1	3.4	[illegible]	2.2	07:40
07:50	2.7	8.0	1.9	5.6	1.5	4.4	1.8	5.4	0.77	2.3	1.1	3.4	[illegible]	2.3	07:50
08:00	2.6	7.7	1.8	5.4	1.4	4.3	1.8	5.5	0.77	2.3	1.1	3.4	[illegible]	2.3	08:00

-A- 0-17 692 CAM	-B- 1-9 WastEvap	-C- 1-10B 692 ARM	
1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	MIN to MAX Units
OffHigh	6.9E+0	3.8E+0	05:45
OffHigh	6.9E+0	3.8E+0	05:50
OffHigh	6.9E+0	3.8E+0	05:55
OffHigh	6.8E+0	3.7E+0	06:00
OffHigh	6.6E+0	3.7E+0	06:05
OffHigh	6.5E+0	3.6E+0	06:10
OffHigh	6.4E+0	3.5E+0	06:15
OffHigh	6.3E+0	3.4E+0	06:20
OffHigh	6.1E+0	3.4E+0	06:25
OffHigh	6.0E+0	3.3E+0	06:30
OffHigh	5.8E+0	3.2E+0	06:40
OffHigh	5.6E+0	3.1E+0	06:50
OffHigh	5.4E+0	3.0E+0	07:00
OffHigh	5.2E+0	2.9E+0	07:10
OffHigh	5.0E+0	2.8E+0	07:20
OffHigh	4.8E+0	2.7E+0	07:30
OffHigh	4.7E+0	2.6E+0	07:40
OffHigh	4.5E+0	2.5E+0	07:50
OffHigh	4.3E+0	2.4E+0	08:00



WBN692 08-04-1993 15:10:03 wbn93ge Watts Bar Nuclear Plant

EP Map Points:4, 5
Data Location: U1 Penetration Room

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	2400	<2.0	OffHigh	34	<0.05
05:50	2600	<2.0	OffHigh	36	<0.05
05:55	2800	<2.0	OffHigh	38	<0.05
06:00	3000	<2.0	OffHigh	39	<0.05
06:05	3300	<2.0	OffHigh	41	<0.05
06:10	3400	<2.0	OffHigh	43	<0.05
06:15	3600	<2.0	OffHigh	44	<0.05
06:20	3800	<2.0	OffHigh	46	<0.05
06:25	4000	<2.0	OffHigh	47	<0.05
06:30	4200	<2.0	OffHigh	48	<0.05
06:40	4500	<2.0	OffHigh	50	<0.05
06:50	4800	<2.0	OffHigh	52	<0.05
07:00	5100	<2.0	OffHigh	53	<0.05
07:10	5400	<2.0	OffHigh	54	<0.05
07:20	5600	<2.0	OffHigh	55	<0.05
07:30	5800	<2.0	OffHigh	56	<0.05
07:40	6000	<2.0	OffHigh	56	<0.05
07:50	6100	<2.0	OffHigh	57	<0.05
08:00	6200	<2.0	OffHigh	57	<0.05

EP Map Points:6,7,8 Elev 713 14,15
Data Location: U1 Pipe Chase

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDGE GM MR/HR
05:45	OffHigh	6.0	OffHigh	850	0.44
05:50	OffHigh	6.5	OffHigh	900	0.46
05:55	OffHigh	7.1	OffHigh	950	0.49
06:00	OffHigh	7.6	OffHigh	990	0.50
06:05	OffHigh	8.1	OffHigh	1000	0.51
06:10	OffHigh	8.6	OffHigh	1000	0.53
06:15	OffHigh	9.0	OffHigh	1000	0.53
06:20	OffHigh	9.4	OffHigh	1100	0.54
06:25	OffHigh	9.8	OffHigh	1100	0.54
06:30	OffHigh	10	OffHigh	1100	0.54
06:40	OffHigh	10	OffHigh	1100	0.52
06:50	OffHigh	11	OffHigh	1100	0.50
07:00	OffHigh	11	OffHigh	1000	0.48
07:10	OffHigh	11	OffHigh	1000	0.45
07:20	OffHigh	11	OffHigh	990	0.42
07:30	OffHigh	11	OffHigh	950	0.39
07:40	OffHigh	11	OffHigh	890	0.36
07:50	OffHigh	11	OffHigh	840	0.32
08:00	OffHigh	10	OffHigh	790	0.29

EP Map Points:25
Data Location: U2 Penetration Roc

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
05:45	9400	<2.0	OffHigh	130
05:50	10000	<2.0	OffHigh	130
05:55	11000	<2.0	OffHigh	140
06:00	11000	<2.0	OffHigh	140
06:05	12000	<2.0	OffHigh	150
06:10	13000	<2.0	OffHigh	160
06:15	13000	<2.0	OffHigh	160
06:20	14000	<2.0	OffHigh	160
06:25	15000	<2.0	OffHigh	170
06:30	15000	<2.0	OffHigh	170
06:40	16000	<2.0	OffHigh	180
06:50	17000	<2.0	OffHigh	180
07:00	18000	<2.0	OffHigh	180
07:10	19000	<2.0	OffHigh	180
07:20	19000	<2.0	OffHigh	180
07:30	20000	2.0	OffHigh	180
07:40	20000	2.0	OffHigh	180
07:50	20000	2.0	OffHigh	180
08:00	21000	2.1	OffHigh	180

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EP Map Points:26,27,28 Elev 713 20,21
Data Location: U2 Pipe Chase

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	19000	<2.0	OffHigh	290	0.14
05:50	21000	2.1	OffHigh	310	0.15
05:55	23000	2.3	OffHigh	340	0.16
06:00	25000	2.5	OffHigh	360	0.17
06:05	28000	2.8	OffHigh	380	0.18
06:10	30000	3.0	OffHigh	400	0.19
06:15	32000	3.2	OffHigh	420	0.20
06:20	34000	3.4	OffHigh	440	0.21
06:25	37000	3.7	OffHigh	460	0.21
06:30	39000	3.9	OffHigh	480	0.22
06:40	43000	4.3	OffHigh	500	0.22
06:50	47000	4.7	OffHigh	530	0.23
07:00	OffHigh	5.0	OffHigh	540	0.23
07:10	OffHigh	5.3	OffHigh	550	0.23
07:20	OffHigh	5.5	OffHigh	560	0.22
07:30	OffHigh	5.7	OffHigh	560	0.22
07:40	OffHigh	5.8	OffHigh	550	0.21
07:50	OffHigh	5.9	OffHigh	550	0.20
08:00	OffHigh	6.0	OffHigh	540	0.19

Watts Bar Nuclear Plant

EP Map Points:2,9,10,11,13,14,17-21,24
Data Location: Rooms off Main Elev

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR
05:45	2800	<2.0	OffHigh	39	<0.05
05:50	3000	<2.0	OffHigh	41	<0.05
05:55	3300	<2.0	OffHigh	43	<0.05
06:00	3500	<2.0	OffHigh	45	<0.05
06:05	3700	<2.0	OffHigh	47	<0.05
06:10	4000	<2.0	OffHigh	49	<0.05
06:15	4200	<2.0	OffHigh	51	<0.05
06:20	4400	<2.0	OffHigh	52	<0.05
06:25	4600	<2.0	OffHigh	54	<0.05
06:30	4800	<2.0	OffHigh	55	<0.05
06:40	5200	<2.0	OffHigh	57	<0.05
06:50	5500	<2.0	OffHigh	59	<0.05
07:00	5900	<2.0	OffHigh	61	<0.05
07:10	6100	<2.0	OffHigh	62	<0.05
07:20	6400	<2.0	OffHigh	63	<0.05
07:30	6600	<2.0	OffHigh	64	<0.05
07:40	6800	<2.0	OffHigh	64	<0.05
07:50	7000	<2.0	OffHigh	65	<0.05
08:00	7100	<2.0	OffHigh	65	<0.05

EP Map Points:1,3,12,15,16,22,23
Data Location: Main 692 Elevation

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR
05:45	OffHigh	5.7	OffHigh	620	0.37
05:50	OffHigh	5.9	OffHigh	620	0.36
05:55	OffHigh	6.0	OffHigh	610	0.35
06:00	OffHigh	6.1	OffHigh	600	0.34
06:05	OffHigh	6.2	OffHigh	590	0.32
06:10	OffHigh	6.3	OffHigh	570	0.31
06:15	OffHigh	6.3	OffHigh	560	0.30
06:20	OffHigh	6.3	OffHigh	540	0.28
06:25	OffHigh	6.3	OffHigh	530	0.27
06:30	OffHigh	6.3	OffHigh	520	0.26
06:40	OffHigh	6.2	OffHigh	490	0.23
06:50	OffHigh	6.1	OffHigh	460	0.21
07:00	OffHigh	6.0	OffHigh	440	0.20
07:10	OffHigh	5.9	OffHigh	420	0.18
07:20	OffHigh	5.7	OffHigh	390	0.17
07:30	OffHigh	5.6	OffHigh	370	0.15
07:40	OffHigh	5.5	OffHigh	350	0.14
07:50	OffHigh	5.3	OffHigh	330	0.13
08:00	OffHigh	5.2	OffHigh	320	0.11

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Time	Location 1 Near Elevator		Location 2 General Area		Location 3 Outside CS Rms		Location 4 1A-A RHR Room		Location 5 1B-B RHR Room		Location 6 1A-A CS Room		Location 7 1B-B CS Room		Location 8 TDCT Room		Location 9 Outside TDCT Rm		Location 10 2B-B CS Room		Location 11 2A-A CS Room		Location 12 Outside CS Rms		Location 13 2B-B RHR Room		Location 14 2A-A RHR Rooms		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:35

WBN676 08-04-1993 15:07:28 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 Waste Evap and Cond Tk & pump		Location 16 U-2 Pipe Chase		Location 17 U-2 Pipe Chase		Location 18 FDCT Room		Location 19 FDCT Room		Location 20 Near Waste Gas Stripper Room		Location 21 Entrance to U1 Pipe Chase		Location 22 U-1 Pipe Chase		Location 23 U-1 Pipe Chase		Location 24 U-1 Pipe Chase		Location 25 U-1 Pipe Chase		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
00:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:00
00:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	00:30
01:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:00
01:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:30
01:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	01:55
02:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:00
02:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:05
02:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:10
02:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:15
02:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:20
02:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:25
02:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:30
02:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:35
02:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:40
02:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:45
02:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:50
02:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	02:55
03:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:00
03:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:05
03:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:10
03:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:15
03:20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:20
03:25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:25
03:30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:30
03:35	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:35

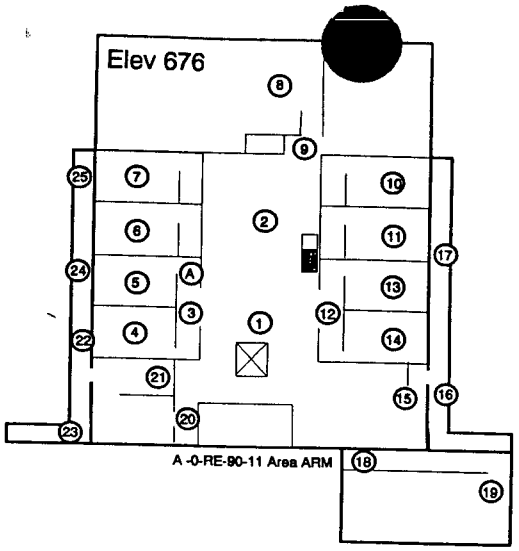
WBN [redacted] 8-04-1993 15:07:28 wbn93ge

Watts Bar Nuclear Plant

Map Points:4 or 14 depending on Unit#	EP Map Points:5 or 13 depending on Unit#	EP Map Points:All poi[redacted]4
Data Location: Affected Unit RHR A	Data Location: Affected Unit RHR B	Data Location: All Othe[redacted]ion

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
00:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
00:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
01:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
01:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
01:55	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:10	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:15	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:20	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:25	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:35	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:40	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:45	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:50	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
02:55	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0
03:00	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	100	<2.0
03:05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	120	<2.0
03:10	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	140	<2.0
03:15	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	160	<2.0
03:20	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	190	<2.0
03:25	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	210	<2.0
03:30	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	250	<2.0
03:35	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	340	<2.0

-A- 1-118 676 ARM	
1.0E-01 to 1.0E+04 mr/hr	MIN to MAX Units
.	00:00
.	00:30
.	01:00
.	01:30
.	01:55
.	02:00
.	02:05
1.0E-1	02:10
1.0E-1	02:15
1.0E-1	02:20
1.0E-1	02:25
1.0E-1	02:30
1.0E-1	02:35
1.0E-1	02:40
1.0E-1	02:45
1.0E-1	02:50
1.0E-1	02:55
1.0E-1	03:00
1.0E-1	03:05
1.0E-1	03:10
1.0E-1	03:15
1.0E-1	03:20
1.0E-1	03:25
1.0E-1	03:30
1.0E-1	03:35



WBN676 08-04-1993 15:08:59 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 Near Elevator		Location 2 General Area		Location 3 Outside CS Rms		Location 4 1A-A RHR Room		Location 5 1B-B RHR Room		Location 6 1A-A CS Room		Location 7 1B-B CS Room		Location 8 TDCT Room		Location 9 Outside TDCT Rm		Location 10 2B-B CS Room		Location 11 2A-A CS Room		Location 12 Outside CS Rms		Location 13 2B-B RHR Room		Location 14 2A-A RHR Rooms		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:40
03:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:45
03:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:50
03:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:55
04:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:00
04:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:05
04:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:10
04:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:15
04:20	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:20
04:25	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:25
04:30	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:30
04:35	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:35
04:40	<0.05	0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:40
04:45	<0.05	0.06	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:45
04:50	<0.05	0.08	0.05	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:50
04:55	<0.05	0.09	0.06	0.18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:55
05:00	<0.05	0.10	0.07	0.21	<0.05	<0.05	<0.05	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	<0.05	0.05	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	0.05	<0.05	0.05	05:00
05:05	<0.05	0.12	0.08	0.24	<0.05	0.05	<0.05	0.06	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	0.06	<0.05	0.07	<0.05	0.07	<0.05	0.05	<0.05	0.06	<0.05	0.06	05:05
05:10	<0.05	0.13	0.09	0.27	<0.05	0.05	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	0.05	0.16	<0.05	0.07	<0.05	0.08	<0.05	0.08	<0.05	0.05	<0.05	0.07	<0.05	0.07	05:10
05:15	0.05	0.15	0.10	0.30	<0.05	0.06	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	0.06	0.18	<0.05	0.07	<0.05	0.09	<0.05	0.09	<0.05	0.06	<0.05	0.07	<0.05	0.07	05:15
05:20	0.05	0.16	0.11	0.33	<0.05	0.06	<0.05	0.08	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	0.06	0.20	<0.05	0.08	<0.05	0.11	<0.05	0.11	<0.05	0.06	<0.05	0.08	<0.05	0.08	05:20
05:25	0.06	0.18	0.12	0.36	<0.05	0.07	<0.05	0.09	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	0.07	0.22	<0.05	0.09	<0.05	0.12	<0.05	0.12	<0.05	0.07	<0.05	0.09	<0.05	0.09	05:25
05:30	0.06	0.20	0.13	0.40	<0.05	0.08	<0.05	0.10	<0.05	0.10	<0.05	<0.05	<0.05	<0.05	0.08	0.24	<0.05	0.10	<0.05	0.13	<0.05	0.13	<0.05	0.08	<0.05	0.10	<0.05	0.10	05:30
05:35	0.07	0.21	0.14	0.43	<0.05	0.09	<0.05	0.11	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	0.08	0.26	<0.05	0.11	<0.05	0.14	<0.05	0.14	<0.05	0.09	<0.05	0.11	<0.05	0.11	05:35
05:40	0.07	0.23	0.15	0.46	<0.05	0.09	<0.05	0.12	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	0.09	0.28	<0.05	0.12	0.05	0.15	0.05	0.15	<0.05	0.09	<0.05	0.12	<0.05	0.12	05:40

WBN676 08-04-1993 15:08:59 wbn93ge Watts Bar Nuclear Plant

Time	Location 15 Waste Evap and Cond Tk & pump		Location 16 U-2 Pipe Chase		Location 17 U-2 Pipe Chase		Location 18 FDCT Room		Location 19 FDCT Room		Location 20 Near Waste Gas Stripper Room		Location 21 Entrance to U1 Pipe Chase		Location 22 U-1 Pipe Chase		Location 23 U-1 Pipe Chase		Location 24 U-1 Pipe Chase		Location 25 U-1 Pipe Chase		Location 26		Location 27		Location 28		Time
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
03:40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:40
03:45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:45
03:50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:50
03:55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.07	<0.05	0.07	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	03:55
04:00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.12	<0.05	0.12	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:00
04:05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	0.06	0.19	0.06	0.19	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:05
04:10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.21	0.09	0.29	0.10	0.29	0.07	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:10
04:15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.10	0.30	0.13	0.41	0.14	0.43	0.10	0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:15
04:20	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	0.41	0.19	0.57	0.19	0.59	0.14	0.41	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:20
04:25	<0.05	<0.05	<0.05	0.05	0.06	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.18	0.55	0.25	0.76	0.26	0.78	0.18	0.55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:25
04:30	<0.05	<0.05	0.05	0.07	0.08	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	0.72	0.33	0.98	0.34	1.0	0.24	0.72	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:30
04:35	<0.05	<0.05	0.07	0.09	0.10	0.13	<0.05	0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.31	0.91	0.41	1.2	0.43	1.2	0.31	0.91	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:35
04:40	<0.05	<0.05	0.09	0.11	0.13	0.16	<0.05	0.07	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.38	1.1	0.52	1.5	0.53	1.5	0.38	1.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:40
04:45	<0.05	<0.05	0.12	0.14	0.17	0.20	<0.05	0.08	<0.05	<0.05	<0.05	0.07	<0.05	0.05	0.46	1.3	0.63	1.8	0.65	1.9	0.46	1.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:45
04:50	<0.05	<0.05	0.15	0.17	0.21	0.24	<0.05	0.09	<0.05	<0.05	<0.05	0.08	<0.05	0.06	0.56	1.6	0.75	2.2	0.78	2.3	0.56	1.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:50
04:55	<0.05	0.05	0.18	0.21	0.25	0.29	<0.05	0.11	<0.05	<0.05	<0.05	0.10	<0.05	0.07	0.66	1.9	0.89	2.6	0.92	2.7	0.66	1.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	04:55
05:00	<0.05	0.06	0.21	0.25	0.30	0.35	<0.05	0.12	<0.05	0.05	<0.05	0.11	<0.05	0.08	0.77	2.2	1.0	3.1	1.0	3.2	0.77	2.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:00
05:05	<0.05	0.07	0.25	0.29	0.35	0.41	<0.05	0.14	<0.05	0.05	<0.05	0.13	<0.05	0.09	0.89	2.6	1.2	3.5	1.2	3.7	0.89	2.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:05
05:10	<0.05	0.08	0.29	0.34	0.41	0.47	0.05	0.16	<0.05	0.06	0.05	0.15	<0.05	0.11	1.0	2.9	1.3	4.0	1.4	4.1	1.0	2.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:10
05:15	<0.05	0.09	0.34	0.39	0.47	0.54	0.06	0.18	<0.05	0.07	0.05	0.16	0.05	0.12	1.1	3.3	1.5	4.5	1.5	4.7	1.1	3.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:15
05:20	<0.05	0.10	0.38	0.44	0.54	0.62	0.06	0.20	<0.05	0.08	0.06	0.18	0.05	0.13	1.2	3.7	1.7	5.1	1.7	5.2	1.2	3.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:20
05:25	<0.05	0.11	0.43	0.50	0.61	0.70	0.07	0.22	<0.05	0.08	0.06	0.20	0.06	0.14	1.4	4.1	1.9	5.6	1.9	5.8	1.4	4.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:25
05:30	<0.05	0.12	0.49	0.55	0.68	0.78	0.08	0.24	<0.05	0.09	0.07	0.22	0.07	0.16	1.5	4.5	2.0	6.1	2.1	6.3	1.5	4.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:30
05:35	<0.05	0.13	0.54	0.62	0.76	0.86	0.08	0.26	<0.05	0.10	0.08	0.24	0.07	0.17	1.6	4.9	2.2	6.6	2.3	6.9	1.6	4.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:35
05:40	<0.05	0.14	0.60	0.68	0.84	0.95	0.09	0.28	<0.05	0.11	0.08	0.25	0.08	0.19	1.8	5.3	2.4	7.2	2.5	7.4	1.8	5.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:40

WBN676 [redacted]-1993 15:08:59 wbn93ge

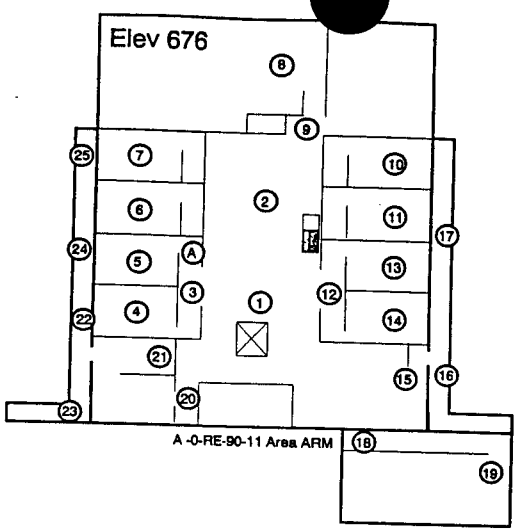
Watts Bar Nuclear Plant

[redacted]Points:4 or 14 depending on Unit# | EP Map Points:5 or 13 depending on Unit# | EP Map Points:All points [redacted]

[redacted]ocation: Affected Unit RHR A | Data Location: Affected Unit RHR B | Data Location: All Other Lo[redacted]

Time	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTRIDG GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR	IODINE CARTIDGE GM MR/HR	SURFACE CONTAM FRISKER CPM	SURFACE CONTAM ION MR/HR	AIR SAMPLE -1m3 PRE-FILTER FRISKER CPM	AIR SAMPLE -1m3 PRE-FILTER ION MR/HR
03:40	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	530	<2.0
03:45	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	900	<2.0
03:50	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	<100	<2.0	<0.05	<100	<2.0	1500	<2.0
03:55	<100	<2.0	110	<2.0	<0.05	<100	<2.0	110	<2.0	<0.05	<100	<2.0	2600	<2.0
04:00	<100	<2.0	180	<2.0	<0.05	<100	<2.0	180	<2.0	<0.05	<100	<2.0	4100	<2.0
04:05	<100	<2.0	280	<2.0	<0.05	<100	<2.0	280	<2.0	<0.05	<100	<2.0	6300	<2.0
04:10	<100	<2.0	430	<2.0	<0.05	<100	<2.0	430	<2.0	<0.05	<100	<2.0	9100	<2.0
04:15	<100	<2.0	620	<2.0	<0.05	<100	<2.0	620	<2.0	<0.05	<100	<2.0	12000	<2.0
04:20	<100	<2.0	890	<2.0	<0.05	<100	<2.0	890	<2.0	<0.05	<100	<2.0	16000	<2.0
04:25	<100	<2.0	1200	<2.0	<0.05	<100	<2.0	1200	<2.0	<0.05	<100	<2.0	22000	2.2
04:30	<100	<2.0	1600	<2.0	<0.05	<100	<2.0	1600	<2.0	<0.05	120	<2.0	28000	2.8
04:35	<100	<2.0	2100	<2.0	<0.05	<100	<2.0	2100	<2.0	<0.05	160	<2.0	34000	3.5
04:40	<100	<2.0	2700	<2.0	<0.05	<100	<2.0	2700	<2.0	<0.05	200	<2.0	42000	4.2
04:45	<100	<2.0	3500	<2.0	<0.05	<100	<2.0	3500	<2.0	<0.05	260	<2.0	OffHigh	5.1
04:50	<100	<2.0	4300	<2.0	<0.05	<100	<2.0	4300	<2.0	<0.05	310	<2.0	OffHigh	6.0
04:55	<100	<2.0	5300	<2.0	<0.05	<100	<2.0	5300	<2.0	<0.05	380	<2.0	OffHigh	7.0
05:00	<100	<2.0	6400	<2.0	<0.05	<100	<2.0	6400	<2.0	<0.05	450	<2.0	OffHigh	8.1
05:05	<100	<2.0	7700	<2.0	<0.05	<100	<2.0	7700	<2.0	<0.05	530	<2.0	OffHigh	9.3
05:10	<100	<2.0	9000	<2.0	<0.05	<100	<2.0	9000	<2.0	<0.05	620	<2.0	OffHigh	10
05:15	<100	<2.0	10000	<2.0	<0.05	<100	<2.0	10000	<2.0	<0.05	720	<2.0	OffHigh	11
05:20	<100	<2.0	12000	<2.0	<0.05	<100	<2.0	12000	<2.0	<0.05	820	<2.0	OffHigh	13
05:25	<100	<2.0	13000	<2.0	<0.05	<100	<2.0	13000	<2.0	<0.05	920	<2.0	OffHigh	14
05:30	<100	<2.0	15000	<2.0	<0.05	<100	<2.0	15000	<2.0	<0.05	1000	<2.0	OffHigh	15
05:35	100	<2.0	17000	<2.0	<0.05	100	<2.0	17000	<2.0	<0.05	1100	<2.0	OffHigh	16
05:40	120	<2.0	20000	2.0	<0.05	120	<2.0	20000	2.0	<0.05	1200	<2.0	OffHigh	18

-A- 1-11B 676 ARM 1.0E-01 to 1.0E+04 mr/hr	MIN to MAX Units
1.0E-1	03:40
1.0E-1	03:45
1.0E-1	03:50
1.0E-1	03:55
1.0E-1	04:00
1.0E-1	04:05
1.0E-1	04:10
1.0E-1	04:15
1.0E-1	04:20
1.0E-1	04:25
1.0E-1	04:30
1.0E-1	04:35
1.0E-1	04:40
1.0E-1	04:45
1.0E-1	04:50
1.0E-1	04:55
1.0E-1	05:00
1.0E-1	05:05
1.0E-1	05:10
1.0E-1	05:15
1.0E-1	05:20
1.0E-1	05:25
1.0E-1	05:30
1.0E-1	05:35
1.0E-1	05:40



WBN676 08-04-1993 15:10:03 wbn93ge Watts Bar Nuclear Plant

Time	Location 1 Near Elevator		Location 2 General Area		Location 3 Outside CS Rms		Location 4 1A-A RHR Room		Location 5 1B-B RHR Room		Location 6 1A-A CS Room		Location 7 1B-B CS Room		Location 8 TDCT Room		Location 9 Outside TDCT Rm		Location 10 2B-B CS Room		Location 11 2A-A CS Room		Location 12 Outside CS Rms		Location 13 2B-B RHR Room		Location 14 2A-A RHR Rooms		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	0.08	0.24	0.16	0.49	<0.05	0.10	<0.05	0.13	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	0.10	0.29	<0.05	0.13	0.05	0.16	0.05	0.16	<0.05	0.10	<0.05	0.13	<0.05	0.13	05:45
05:50	0.08	0.26	0.17	0.53	<0.05	0.11	<0.05	0.13	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	0.10	0.31	<0.05	0.13	0.05	0.17	0.05	0.17	<0.05	0.11	<0.05	0.13	<0.05	0.13	05:50
05:55	0.09	0.28	0.18	0.56	<0.05	0.11	<0.05	0.14	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	0.11	0.33	<0.05	0.14	0.06	0.18	0.06	0.18	<0.05	0.11	<0.05	0.14	<0.05	0.14	05:55
06:00	0.09	0.29	0.19	0.59	<0.05	0.12	0.05	0.15	0.05	0.15	<0.05	<0.05	<0.05	<0.05	0.11	0.35	0.05	0.15	0.06	0.19	0.06	0.19	<0.05	0.12	0.05	0.15	0.05	0.15	06:00
06:05	0.10	0.31	0.20	0.62	<0.05	0.12	0.05	0.16	0.05	0.16	<0.05	<0.05	<0.05	<0.05	0.12	0.37	0.05	0.16	0.06	0.20	0.06	0.20	<0.05	0.12	0.05	0.16	0.05	0.16	06:05
06:10	0.10	0.32	0.21	0.64	0.05	0.13	0.05	0.16	0.05	0.16	<0.05	<0.05	<0.05	<0.05	0.13	0.38	0.05	0.16	0.07	0.21	0.07	0.21	0.05	0.13	0.05	0.16	0.05	0.16	06:10
06:15	0.11	0.33	0.22	0.67	0.05	0.14	0.05	0.17	0.05	0.17	<0.05	<0.05	<0.05	<0.05	0.13	0.40	0.05	0.17	0.07	0.22	0.07	0.22	0.05	0.14	0.05	0.17	0.05	0.17	06:15
06:20	0.11	0.35	0.23	0.70	0.05	0.14	0.06	0.18	0.06	0.18	<0.05	<0.05	<0.05	<0.05	0.14	0.42	0.06	0.18	0.07	0.23	0.07	0.23	0.05	0.14	0.06	0.18	0.06	0.18	06:20
06:25	0.12	0.36	0.24	0.72	0.05	0.15	0.06	0.19	0.06	0.19	<0.05	<0.05	<0.05	<0.05	0.14	0.43	0.06	0.18	0.08	0.23	0.08	0.23	0.05	0.15	0.06	0.19	0.06	0.19	06:25
06:30	0.12	0.37	0.25	0.75	0.05	0.15	0.06	0.19	0.06	0.19	<0.05	<0.05	<0.05	<0.05	0.15	0.45	0.06	0.19	0.08	0.24	0.08	0.24	0.05	0.15	0.06	0.19	0.06	0.19	06:30
06:40	0.13	0.39	0.26	0.79	0.06	0.16	0.07	0.20	0.07	0.20	<0.05	<0.05	<0.05	<0.05	0.16	0.47	0.06	0.20	0.08	0.26	0.08	0.26	0.06	0.16	0.07	0.20	0.07	0.20	06:40
06:50	0.14	0.41	0.28	0.83	0.06	0.17	0.07	0.21	0.07	0.21	<0.05	0.05	<0.05	0.05	0.16	0.50	0.07	0.21	0.09	0.27	0.09	0.27	0.06	0.17	0.07	0.21	0.07	0.21	06:50
07:00	0.14	0.43	0.29	0.87	0.06	0.18	0.07	0.22	0.07	0.22	<0.05	0.05	<0.05	0.05	0.17	0.52	0.07	0.22	0.09	0.28	0.09	0.28	0.06	0.18	0.07	0.22	0.07	0.22	07:00
07:10	0.15	0.45	0.30	0.90	0.07	0.18	0.07	0.23	0.07	0.23	<0.05	0.06	<0.05	0.06	0.18	0.54	0.07	0.23	0.10	0.29	0.10	0.29	0.07	0.18	0.07	0.23	0.07	0.23	07:10
07:20	0.15	0.46	0.31	0.94	0.07	0.19	0.08	0.24	0.08	0.24	<0.05	0.06	<0.05	0.06	0.18	0.56	0.08	0.24	0.10	0.30	0.10	0.30	0.07	0.19	0.08	0.24	0.08	0.24	07:20
07:30	0.16	0.48	0.32	0.97	0.07	0.20	0.08	0.25	0.08	0.25	<0.05	0.07	<0.05	0.07	0.19	0.58	0.08	0.25	0.10	0.32	0.10	0.32	0.07	0.20	0.08	0.25	0.08	0.25	07:30
07:40	0.16	0.49	0.33	1.0	0.07	0.20	0.08	0.26	0.08	0.26	<0.05	0.08	<0.05	0.08	0.20	0.60	0.08	0.26	0.11	0.32	0.11	0.32	0.07	0.20	0.08	0.26	0.08	0.26	07:40
07:50	0.17	0.51	0.34	1.0	0.08	0.21	0.09	0.26	0.09	0.26	<0.05	0.08	<0.05	0.08	0.20	0.61	0.09	0.26	0.11	0.33	0.11	0.33	0.08	0.21	0.09	0.26	0.09	0.26	07:50
08:00	0.17	0.52	0.35	1.0	0.08	0.21	0.09	0.27	0.09	0.27	<0.05	0.09	<0.05	0.09	0.21	0.63	0.09	0.27	0.11	0.34	0.11	0.34	0.08	0.21	0.09	0.27	0.09	0.27	08:00

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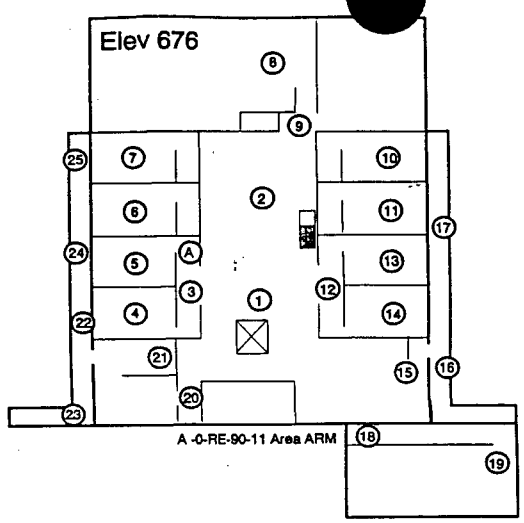
Time	Location 15 Waste Evap and Cond Tk & pump		Location 16 U-2 Pipe Chase		Location 17 U-2 Pipe Chase		Location 18 FDCT Room		Location 19 FDCT Room		Location 20 Near Waste Gas Stripper Room		Location 21 Entrance to U1 Pipe Chase		Location 22 U-1 Pipe Chase		Location 23 U-1 Pipe Chase		Location 24 U-1 Pipe Chase		Location 25 U-1 Pipe Chase		Location 26		Location 27		Location 28		
	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	Closed Window mr/hr	Open Window mr/hr	
05:45	0.05	0.15	0.66	0.74	0.92	1.0	0.10	0.30	<0.05	0.12	0.09	0.27	0.08	0.20	1.9	5.6	2.6	7.7	2.7	7.9	1.9	5.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:45
05:50	0.05	0.16	0.72	0.80	1.0	1.1	0.10	0.32	<0.05	0.12	0.09	0.29	0.09	0.21	2.0	6.0	2.7	8.1	2.8	8.4	2.0	6.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:50
05:55	0.05	0.17	0.77	0.86	1.0	1.2	0.11	0.33	<0.05	0.13	0.10	0.31	0.09	0.22	2.1	6.3	2.9	8.6	3.0	8.9	2.1	6.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	05:55
06:00	0.06	0.18	0.83	0.93	1.1	1.3	0.12	0.35	<0.05	0.14	0.11	0.32	0.10	0.24	2.2	6.6	3.0	9.0	3.1	9.3	2.2	6.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:00
06:05	0.06	0.19	0.89	1.0	1.2	1.3	0.12	0.37	0.05	0.15	0.11	0.34	0.11	0.25	2.3	6.9	3.1	9.4	3.3	9.7	2.3	6.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:05
06:10	0.06	0.19	0.95	1.0	1.3	1.4	0.13	0.39	0.05	0.15	0.12	0.36	0.11	0.26	2.4	7.1	3.3	9.7	3.4	10	2.4	7.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:10
06:15	0.06	0.20	1.0	1.1	1.3	1.5	0.13	0.40	0.05	0.16	0.12	0.37	0.11	0.27	2.5	7.3	3.3	10	3.5	10	2.5	7.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:15
06:20	0.07	0.21	1.0	1.1	1.4	1.6	0.14	0.42	0.05	0.17	0.13	0.38	0.12	0.28	2.6	7.5	3.4	10	3.6	10	2.6	7.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:20
06:25	0.07	0.22	1.1	1.2	1.5	1.7	0.14	0.43	0.05	0.17	0.13	0.40	0.12	0.29	2.6	7.6	3.5	10	3.6	10	2.6	7.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:25
06:30	0.07	0.23	1.1	1.2	1.6	1.7	0.15	0.45	0.06	0.18	0.14	0.41	0.12	0.30	2.6	7.7	3.5	10	3.7	10	2.6	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:30
06:40	0.08	0.24	1.2	1.3	1.7	1.9	0.16	0.48	0.06	0.19	0.14	0.44	0.13	0.31	2.7	7.9	3.6	10	3.8	11	2.7	7.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:40
06:50	0.08	0.25	1.3	1.4	1.8	2.0	0.16	0.50	0.06	0.20	0.15	0.46	0.14	0.33	2.7	7.9	3.6	10	3.8	11	2.7	7.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	06:50
07:00	0.09	0.26	1.3	1.5	1.9	2.1	0.17	0.52	0.07	0.21	0.16	0.48	0.14	0.34	2.7	7.8	3.6	10	3.7	11	2.7	7.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:00
07:10	0.09	0.27	1.4	1.5	1.9	2.2	0.18	0.54	0.07	0.22	0.16	0.50	0.14	0.35	2.6	7.7	3.5	10	3.7	10	2.6	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:10
07:20	0.09	0.28	1.4	1.6	2.0	2.2	0.19	0.56	0.07	0.22	0.17	0.52	0.15	0.36	2.6	7.5	3.4	10	3.6	10	2.6	7.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:20
07:30	0.10	0.29	1.5	1.6	2.0	2.3	0.19	0.58	0.08	0.23	0.18	0.54	0.15	0.37	2.5	7.3	3.3	9.9	3.5	10	2.5	7.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:30
07:40	0.10	0.30	1.5	1.6	2.1	2.3	0.20	0.60	0.08	0.24	0.18	0.55	0.15	0.38	2.4	7.0	3.2	9.6	3.4	9.9	2.4	7.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:40
07:50	0.10	0.31	1.5	1.7	2.1	2.3	0.20	0.62	0.08	0.25	0.19	0.57	0.15	0.39	2.3	6.8	3.1	9.2	3.2	9.5	2.3	6.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	07:50
08:00	0.10	0.32	1.5	1.7	2.1	2.3	0.21	0.63	0.08	0.25	0.19	0.58	0.15	0.39	2.2	6.5	3.0	8.8	3.1	9.1	2.2	6.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	08:00

WBN676 [redacted]93 15:10:03 wbn93ge

Watts Bar Nuclear Plant

Time	EP [redacted]oints:4 or 14 depending on Unit# Data Location: Affected Unit RHR A					EP Map Points:5 or 13 depending on Unit# Data Location: Affected Unit RHR B					EP Map Points:All points excep[redacted] Data Location: All Other Locati[redacted]			
	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTRIDG	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER		IODINE CARTIDGE	SURFACE CONTAM		AIR SAMPLE -1m3 PRE-FILTER	
	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR	GM MR/HR	FRISKER CPM	ION MR/HR	FRISKER CPM	ION MR/HR
05:45	140	<2.0	22000	2.2	<0.05	140	<2.0	22000	2.2	<0.05	1300	<2.0	OffHigh	19
05:50	150	<2.0	24000	2.4	<0.05	150	<2.0	24000	2:4	<0.05	1500	<2.0	OffHigh	20
05:55	170	<2.0	27000	2.7	<0.05	170	<2.0	27000	2.7	<0.05	1600	<2.0	OffHigh	21
06:00	190	<2.0	29000	2.9	<0.05	190	<2.0	29000	2.9	<0.05	1700	<2.0	OffHigh	22
06:05	210	<2.0	32000	3.2	<0.05	210	<2.0	32000	3.2	<0.05	1800	<2.0	OffHigh	23
06:10	240	<2.0	34000	3.4	<0.05	240	<2.0	34000	3.4	<0.05	1900	<2.0	OffHigh	24
06:15	260	<2.0	37000	3.7	<0.05	260	<2.0	37000	3.7	<0.05	2000	<2.0	OffHigh	25
06:20	280	<2.0	39000	3.9	<0.05	280	<2.0	39000	3.9	<0.05	2100	<2.0	OffHigh	26
06:25	310	<2.0	42000	4.2	<0.05	310	<2.0	42000	4.2	<0.05	2200	<2.0	OffHigh	26
06:30	330	<2.0	45000	4.5	<0.05	330	<2.0	45000	4.5	<0.05	2300	<2.0	OffHigh	27
06:40	380	<2.0	OffHigh	5.0	<0.05	380	<2.0	OffHigh	5.0	<0.05	2500	<2.0	OffHigh	28
06:50	440	<2.0	OffHigh	5.5	<0.05	440	<2.0	OffHigh	5.5	<0.05	2700	<2.0	OffHigh	29
07:00	490	<2.0	OffHigh	6.0	<0.05	490	<2.0	OffHigh	6.0	<0.05	2900	<2.0	OffHigh	30
07:10	540	<2.0	OffHigh	6.5	<0.05	540	<2.0	OffHigh	6.5	<0.05	3000	<2.0	OffHigh	31
07:20	600	<2.0	OffHigh	7.0	<0.05	600	<2.0	OffHigh	7.0	<0.05	3200	<2.0	OffHigh	31
07:30	650	<2.0	OffHigh	7.5	<0.05	650	<2.0	OffHigh	7.5	<0.05	3300	<2.0	OffHigh	32
07:40	700	<2.0	OffHigh	7.9	<0.05	700	<2.0	OffHigh	7.9	<0.05	3400	<2.0	OffHigh	32
07:50	760	<2.0	OffHigh	8.3	<0.05	760	<2.0	OffHigh	8.3	<0.05	3500	<2.0	OffHigh	32
08:00	800	<2.0	OffHigh	8.7	<0.05	800	<2.0	OffHigh	8.7	<0.05	3500	<2.0	OffHigh	32

-A- 1-118 676 ARM	
1.0E-01 to 1.0E+04 mr/hr	MIN to MAX Units
1.0E-1	05:45
1.0E-1	05:50
1.0E-1	05:55
1.0E-1	06:00
1.0E-1	06:05
1.0E-1	06:10
1.0E-1	06:15
1.0E-1	06:20
1.0E-1	06:25
1.0E-1	06:30
1.0E-1	06:40
1.0E-1	06:50
1.0E-1	07:00
1.0E-1	07:10
1.0E-1	07:20
1.0E-1	07:30
1.0E-1	07:40
1.0E-1	07:50
1.0E-1	08:00



WBNPASF[illegible] wbn93ge
08-01-199[illegible]:26:32

Watts Bar Nuclear Plant DRILL DATA LOCATION: Post Accident Sampling

	REACTOR COOLANT SAMPLE DILUTED 1:1000 (24 ML)								DISSOLVED REACTOR COOLANT GAS DILUTED 1:15000 (14 CC)						
	TOP OF CASK		UNSHIELDED			SHIELDED			UNSHIELDED			SHIELDED			
	UNSHIELD	SHIELDED	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER	
00:00	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:00
00:05	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:05
00:10	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:10
00:15	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:15
00:20	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:20
00:22	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:22
00:25	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:25
00:30	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:30
00:35	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:35
00:40	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:40
00:45	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:45
00:50	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:50
00:55	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	00:55
01:00	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:00
01:05	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:05
01:10	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:10
01:15	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:15
01:20	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:20
01:25	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:25
01:30	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:30
01:35	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:35
01:40	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:40
01:45	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:45
01:50	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:50
01:55	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	01:55
02:00	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:00
02:05	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:05
02:10	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:10
02:15	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:15
02:20	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:20
02:25	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:25
02:30	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:30
02:35	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:35
02:40	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:40
02:45	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:45
02:50	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:50
02:55	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	02:55
03:00	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	03:00
03:05	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	03:05
03:10	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	03:10
03:15	0.01	0.01	.	.	.	.	.	.	.	.	.	.	.	.	03:15
03:20	0.01	0.01	0.10	.	.	0.02	.	.	.	.	.	.	.	.	03:20
03:25	0.01	0.01	0.42	0.01	.	0.08	.	.	.	.	.	.	.	.	03:25
03:30	0.01	0.01	0.94	0.02	.	0.18	.	.	0.01	.	.	.	.	.	03:30
03:35	0.01	0.01	1.6	0.04	.	0.33	.	.	0.02	.	.	.	.	.	03:35
03:40	0.01	0.01	2.0	0.05	.	0.41	0.01	.	0.03	.	.	.	.	.	03:40
03:45	0.01	0.01	2.0	0.05	.	0.40	0.01	.	0.03	.	.	.	.	.	03:45
03:50	0.01	0.01	1.9	0.05	.	0.39	0.01	.	0.03	.	.	.	.	.	03:50

03:55	.01	0.01	1.9	0.05	.	0.39	0.01	.	.03	.	.	.	.	.	03:55
04:00	0.01	0.01	1.9	0.05	.	0.38	0.01	.	0.03	.	.	.	.	.	04:00
04:05	0.01	0.01	1.8	0.05	.	0.37	0.01	.	0.02	.	.	.	.	.	04:05
04:10	0.01	0.01	1.8	0.05	.	0.36	0.01	.	0.02	.	.	.	.	.	04:10
04:15	0.01	0.01	1.8	0.05	.	0.36	0.01	.	0.02	.	.	.	.	.	04:15
04:20	0.01	0.01	1.7	0.04	.	0.35	.	.	0.02	.	.	.	.	.	04:20
04:25	0.01	0.01	1.7	0.04	.	0.34	.	.	0.02	.	.	.	.	.	04:25
04:30	0.01	0.01	1.7	0.04	.	0.34	.	.	0.02	.	.	.	.	.	04:30
04:35	0.01	0.01	1.6	0.04	.	0.33	.	.	0.02	.	.	.	.	.	04:35
04:40	0.01	0.01	1.6	0.04	.	0.33	.	.	0.02	.	.	.	.	.	04:40
04:45	0.01	0.01	1.6	0.04	.	0.32	.	.	0.02	.	.	.	.	.	04:45
04:50	0.01	0.01	1.6	0.04	.	0.32	.	.	0.02	.	.	.	.	.	04:50
04:55	0.01	0.01	1.5	0.04	.	0.31	.	.	0.02	.	.	.	.	.	04:55
05:00	0.01	0.01	1.5	0.04	.	0.31	.	.	0.02	.	.	.	.	.	05:00
05:05	0.01	0.01	1.5	0.04	.	0.30	.	.	0.02	.	.	.	.	.	05:05
05:10	0.01	0.01	1.5	0.04	.	0.30	.	.	0.02	.	.	.	.	.	05:10
05:15	0.01	0.01	1.5	0.04	.	0.30	.	.	0.02	.	.	.	.	.	05:15
05:20	0.01	0.01	1.4	0.04	.	0.29	.	.	0.01	.	.	.	.	.	05:20
05:25	0.01	0.01	1.4	0.04	.	0.29	.	.	0.01	.	.	.	.	.	05:25
05:30	0.01	0.01	1.4	0.04	.	0.28	.	.	0.01	.	.	.	.	.	05:30
05:35	0.01	0.01	1.4	0.03	.	0.28	.	.	0.01	.	.	.	.	.	05:35
05:40	0.01	0.01	1.4	0.03	.	0.28	.	.	0.01	.	.	.	.	.	05:40
05:45	0.01	0.01	1.3	0.03	.	0.27	.	.	0.01	.	.	.	.	.	05:45
05:50	0.01	0.01	1.3	0.03	.	0.27	.	.	0.01	.	.	.	.	.	05:50
05:55	0.01	0.01	1.3	0.03	.	0.27	.	.	0.01	.	.	.	.	.	05:55
06:00	0.01	0.01	1.3	0.03	.	0.27	.	.	0.01	.	.	.	.	.	06:00
06:05	0.01	0.01	1.3	0.03	.	0.26	.	.	0.01	.	.	.	.	.	06:05
06:10	0.01	0.01	1.3	0.03	.	0.26	.	.	0.01	.	.	.	.	.	06:10
06:15	0.01	0.01	1.3	0.03	.	0.26	.	.	0.01	.	.	.	.	.	06:15
06:20	0.01	0.01	1.2	0.03	.	0.25	.	.	0.01	.	.	.	.	.	06:20
06:25	0.01	0.01	1.2	0.03	.	0.25	.	.	0.01	.	.	.	.	.	06:25
06:30	0.01	0.01	1.2	0.03	.	0.25	.	.	0.01	.	.	.	.	.	06:30
06:35	0.01	0.01	1.2	0.03	.	0.25	.	.	0.01	.	.	.	.	.	06:35
06:40	0.01	0.01	1.2	0.03	.	0.25	.	.	0.01	.	.	.	.	.	06:40
06:45	0.01	0.01	1.2	0.03	.	0.24	.	.	0.01	.	.	.	.	.	06:45
06:50	0.01	0.01	1.2	0.03	.	0.24	.	.	0.01	.	.	.	.	.	06:50
06:55	0.01	0.01	1.2	0.03	.	0.24	.	.	0.01	.	.	.	.	.	06:55
07:00	0.01	0.01	0.90	0.02	.	0.18	.	.	0.01	.	.	.	.	.	07:00
07:05	0.01	0.01	0.67	0.01	.	0.13	.	.	.	.	.	.	.	.	07:05
07:10	0.01	0.01	0.50	0.01	.	0.10	.	.	.	.	.	.	.	.	07:10
07:15	0.01	0.01	0.37	0.01	.	0.07	.	.	.	.	.	.	.	.	07:15
07:20	0.01	0.01	0.28	.	.	0.05	.	.	.	.	.	.	.	.	07:20
07:25	0.01	0.01	0.21	.	.	0.04	.	.	.	.	.	.	.	.	07:25
07:30	0.01	0.01	0.15	.	.	0.03	.	.	.	.	.	.	.	.	07:30
07:35	0.01	0.01	0.11	.	.	0.02	.	.	.	.	.	.	.	.	07:35
07:40	0.01	0.01	0.08	.	.	0.01	.	.	.	.	.	.	.	.	07:40
07:45	0.01	0.01	0.06	.	.	0.01	.	.	.	.	.	.	.	.	07:45
07:50	0.01	0.01	0.04	.	.	.	.	.	.	.	.	.	.	.	07:50
07:55	0.01	0.01	0.03	.	.	.	.	.	.	.	.	.	.	.	07:55
08:00	0.01	0.01	0.02	.	.	.	.	.	.	.	.	.	.	.	08:00

WBNPASF2.PRN wbn93ge
08-01-1993 16:26:32

Watts Bar Nuclear Plant DRILL DATA LOCATION: Post Accident Sampling

CONTAINMENT AIR SAMPLE (0.5 CC) ALSO SEE WBNPASF3 FOR NOBLE GAS READINGS

	PARTICULATE FILTER			SHIELDED PARTICULATE FILTR			IODINE FILTER			SHIELDED IODINE FILTER			
	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER	
00:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:00
00:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:05
00:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:10
00:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:15
00:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:20
00:22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:22
00:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:25
00:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:30
00:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:35
00:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:40
00:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:45
00:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:50
00:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:55
01:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:00
01:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:05
01:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:10
01:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:15
01:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:20
01:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:25
01:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:30
01:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:35
01:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:40
01:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:45
01:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:50
01:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:55
02:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:00
02:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:05
02:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:10
02:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:15
02:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:20
02:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:25
02:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:30
02:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:35
02:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:40
02:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:45
02:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:50
02:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:55
03:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:00
03:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:05
03:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:10
03:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:15
03:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:20
03:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:25
03:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:30
03:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:35
03:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:40
03:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:45

03:50	.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1	0.01	0.01	0.01	03:50
03:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	.01	0.01	0.01	0.01	03:55
04:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:00
04:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:05
04:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:10
04:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:15
04:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:20
04:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:25
04:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:30
04:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:35
04:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:40
04:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:45
04:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:50
04:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:55
05:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:00
05:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:05
05:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:10
05:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:15
05:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:20
05:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:25
05:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:30
05:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:35
05:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:40
05:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:45
05:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:50
05:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:55
06:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:00
06:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:05
06:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:10
06:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:15
06:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:20
06:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:25
06:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:30
06:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:35
06:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:40
06:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:45
06:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:50
06:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:55
07:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:00
07:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:05
07:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:10
07:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:15
07:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:20
07:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:25
07:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:30
07:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:35
07:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:40
07:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:45
07:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:50
07:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:55
08:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	08:00

WBNPASF3.[illegible] wbn93ge
08-01-1993 16:26:32

Watts Bar Nuclear Plant DRILL DATA LOCATION: Post Accidnet Sampling

CONTAINMENT AIR SAMPLE (0.5 CC) ALSO SEE WBNPASF3 FOR NOBLE GAS READINGS

	NOBLE GAS VIAL			SHIELDED NOBLE GAS VIAL									
	CONTACT	1FOOT	1METER	CONTACT	1FOOT	1METER							
00:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:00
00:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:05
00:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:10
00:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:15
00:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:20
00:22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:22
00:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:25
00:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:30
00:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:35
00:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:40
00:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:45
00:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:50
00:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	00:55
01:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:00
01:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:05
01:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:10
01:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:15
01:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:20
01:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:25
01:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:30
01:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:35
01:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:40
01:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:45
01:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:50
01:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	01:55
02:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:00
02:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:05
02:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:10
02:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:15
02:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:20
02:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:25
02:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:30
02:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:35
02:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:40
02:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:45
02:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:50
02:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	02:55
03:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:00
03:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:05
03:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:10
03:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:15
03:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:20
03:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:25
03:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:30
03:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:35
03:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:40
03:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:45

03:50	[illegible].01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	[illegible]	0.01	0.01	0.01	03:50
03:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	03:55
04:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:00
04:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:05
04:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:10
04:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:15
04:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:20
04:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:25
04:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:30
04:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:35
04:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:40
04:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:45
04:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:50
04:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	04:55
05:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:00
05:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:05
05:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:10
05:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:15
05:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:20
05:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:25
05:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:30
05:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:35
05:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:40
05:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:45
05:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:50
05:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	05:55
06:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:00
06:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:05
06:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:10
06:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:15
06:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:20
06:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:25
06:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:30
06:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:35
06:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:40
06:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:45
06:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:50
06:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	06:55
07:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:00
07:05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:05
07:10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:10
07:15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:15
07:20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:20
07:25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:25
07:30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:30
07:35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:35
07:40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:40
07:45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:45
07:50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:50
07:55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	07:55
08:00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	08:00

Rad Monitors

Time (Min)	1-112A UCntmt P	1-112B UCntmt N	1-112C UCntmt I	1-271 Up Cntmt	1-272 Up Cntmt	1-106A Lo Cntmt	1-106B Lo Cntmt	1-106C Lo Cntmt	1-273 Lo Cntmt	1-274 Lo Cntmt	1-130 Purge	1-131 Purge	1-60 Lo Cntmt	1-61 Lo Cntmt	1-62 Lo Cntmt	08-01-1993 16:26:34
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	MIN to MAX Units
00:00	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:05
00:10	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:10
00:15	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:15
00:20	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:20
00:22	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:22
00:25	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:25
00:30	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:30
00:35	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:35
00:40	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:40
00:45	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:45
00:50	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:50
00:55	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	00:55
01:00	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:00
01:05	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:05
01:10	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:10
01:15	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:15
01:20	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:20
01:25	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:25
01:30	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:30
01:35	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:35
01:40	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:40
01:45	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:45
01:50	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:50
01:55	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	01:55
02:00	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	02:00
02:05	.	.	.	.	.	.	.	.	1.0E+0	1.0E+0	.	.	.	.	.	02:05
02:10	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	.	.	.	.	.	02:10
02:15	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:15
02:20	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:20
02:25	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:25
02:30	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:30
02:35	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:35
02:40	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:40
02:45	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:45
02:50	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:50
02:55	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	02:55
03:00	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:00
03:05	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:05
03:10	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:10

Time (Min)	1-112A UCntmt P	1-112B UCntmt N	1-112C UCntmt I	1-271 Up Cntmt	1-272 Up Cntmt	1-106A Lo Cntmt	1-106B Lo Cntmt	1-106C Lo Cntmt	1-273 Lo Cntmt	1-274 Lo Cntmt	1-130 Purge	1-131 Purge	1-60 Lo Cntmt	1-61 Lo Cntmt	1-62 Lo Cntmt	08-01-1993 16:27:37
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	MIN to MAX Units
03:15	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:15
03:20	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:20
03:25	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:25
03:30	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:30
03:35	1.0E+1	1.0E+1	1.2E+1	.	.	1.5E+1	1.0E+1	1.2E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:35
03:40	1.9E+1	1.1E+1	2.7E+1	.	.	3.4E+1	1.1E+1	2.7E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:40
03:45	3.5E+1	2.0E+1	4.9E+1	.	.	6.2E+1	2.0E+1	4.9E+1	1.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:45
03:50	5.5E+1	3.2E+1	7.9E+1	.	.	9.8E+1	3.2E+1	7.9E+1	1.1E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:50
03:55	8.0E+1	4.6E+1	1.1E+2	.	.	1.4E+2	4.6E+1	1.1E+2	1.2E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	03:55
04:00	1.0E+2	6.2E+1	1.5E+2	.	.	1.9E+2	6.2E+1	1.5E+2	1.2E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:00
04:05	1.4E+2	8.0E+1	1.9E+2	.	.	2.4E+2	8.0E+1	1.9E+2	1.3E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:05
04:10	1.7E+2	1.0E+2	2.4E+2	.	.	3.1E+2	1.0E+2	2.4E+2	1.4E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:10
04:15	2.1E+2	1.2E+2	3.0E+2	.	.	3.7E+2	1.2E+2	3.0E+2	1.5E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:15
04:20	2.5E+2	1.4E+2	3.5E+2	.	.	4.4E+2	1.4E+2	3.5E+2	1.5E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:20
04:25	2.9E+2	1.6E+2	4.1E+2	.	.	5.1E+2	1.6E+2	4.1E+2	1.6E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:25
04:30	3.3E+2	1.9E+2	4.7E+2	.	.	5.8E+2	1.9E+2	4.7E+2	1.7E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:30
04:35	3.7E+2	2.1E+2	5.3E+2	.	.	6.6E+2	2.1E+2	5.3E+2	1.7E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:35
04:40	4.1E+2	2.4E+2	5.9E+2	.	.	7.3E+2	2.4E+2	5.9E+2	1.8E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:40
04:45	4.6E+2	2.6E+2	6.5E+2	.	.	8.1E+2	2.6E+2	6.5E+2	1.8E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:45
04:50	5.0E+2	2.8E+2	7.1E+2	.	.	8.8E+2	2.8E+2	7.1E+2	1.8E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:50
04:55	5.4E+2	3.1E+2	7.7E+2	.	.	9.5E+2	3.1E+2	7.7E+2	1.9E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	04:55
05:00	5.7E+2	3.3E+2	8.2E+2	.	.	1.0E+3	3.3E+2	8.2E+2	1.9E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:00
05:05	6.0E+2	3.4E+2	8.6E+2	.	.	1.0E+3	3.4E+2	8.6E+2	1.9E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:05
05:10	6.3E+2	3.6E+2	8.9E+2	.	.	1.1E+3	3.6E+2	8.9E+2	2.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:10
05:15	6.4E+2	3.7E+2	9.2E+2	.	.	1.1E+3	3.7E+2	9.2E+2	2.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:15
05:20	6.6E+2	3.8E+2	9.4E+2	.	.	1.1E+3	3.8E+2	9.4E+2	2.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:20
05:25	6.7E+2	3.8E+2	9.5E+2	.	.	1.1E+3	3.8E+2	9.5E+2	2.0E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:25
05:30	6.7E+2	3.8E+2	9.6E+2	.	.	1.1E+3	3.8E+2	9.6E+2	2.1E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:30
05:35	6.7E+2	3.8E+2	9.6E+2	.	.	1.1E+3	3.8E+2	9.6E+2	2.1E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	05:35
05:40	6.6E+2	3.8E+2	9.5E+2	.	.	1.1E+3	3.8E+2	9.5E+2	2.1E+0	1.0E+0	1.1E+1	1.1E+1	.	.	.	05:40
05:45	6.5E+2	3.7E+2	9.3E+2	.	.	1.1E+3	3.7E+2	9.3E+2	2.1E+0	1.0E+0	1.1E+1	1.1E+1	.	.	.	05:45
05:50	6.3E+2	3.6E+2	9.1E+2	.	.	1.1E+3	3.6E+2	9.1E+2	2.1E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	05:50
05:55	6.1E+2	3.5E+2	8.8E+2	.	.	1.0E+3	3.5E+2	8.8E+2	2.1E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	05:55
06:00	5.9E+2	3.4E+2	8.5E+2	.	.	1.0E+3	3.4E+2	8.5E+2	2.1E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	06:00
06:05	5.6E+2	3.2E+2	8.0E+2	.	.	9.9E+2	3.2E+2	8.0E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:05
06:10	5.3E+2	3.0E+2	7.6E+2	.	.	9.4E+2	3.0E+2	7.6E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:10
06:15	5.1E+2	2.9E+2	7.3E+2	.	.	9.0E+2	2.9E+2	7.3E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:15
06:20	4.8E+2	2.7E+2	6.9E+2	.	.	8.5E+2	2.7E+2	6.9E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:20
06:25	4.6E+2	2.6E+2	6.6E+2	.	.	8.1E+2	2.6E+2	6.6E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:25
06:30	4.3E+2	2.5E+2	6.3E+2	.	.	7.7E+2	2.5E+2	6.3E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:30

Time (Min)	1-112A UCntmt P	1-112B UCntmt N	1-112C UCntmt I	1-271 Up Cntmt	1-272 Up Cntmt	1-106A Lo Cntmt	1-106B Lo Cntmt	1-106C Lo Cntmt	1-273 Lo Cntmt	1-274 Lo Cntmt	1-130 Purge	1-131 Purge	1-60 Lo Cntmt	1-61 Lo Cntmt	1-62 Lo Cntmt	08-01-1993 16:28:45
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	MIN to MAX Units
06:35	4.1E+2	2.4E+2	5.9E+2	.	.	7.3E+2	2.4E+2	5.9E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:35
06:40	3.9E+2	2.2E+2	5.7E+2	.	.	7.0E+2	2.2E+2	5.7E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:40
06:45	3.7E+2	2.1E+2	5.4E+2	.	.	6.6E+2	2.1E+2	5.4E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:45
06:50	3.5E+2	2.0E+2	5.1E+2	.	.	6.3E+2	2.0E+2	5.1E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:50
06:55	3.4E+2	1.9E+2	4.9E+2	.	.	6.0E+2	1.9E+2	4.9E+2	2.1E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	06:55
07:00	3.2E+2	1.8E+2	4.7E+2	.	.	5.7E+2	1.8E+2	4.7E+2	2.0E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	07:00
07:05	3.1E+2	1.7E+2	4.4E+2	.	.	5.4E+2	1.7E+2	4.4E+2	1.9E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	07:05
07:10	2.9E+2	1.7E+2	4.2E+2	.	.	5.2E+2	1.7E+2	4.2E+2	1.8E+0	1.0E+0	1.3E+1	1.3E+1	.	.	.	07:10
07:15	2.8E+2	1.6E+2	4.0E+2	.	.	4.9E+2	1.6E+2	4.0E+2	1.8E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	07:15
07:20	2.6E+2	1.5E+2	3.8E+2	.	.	4.7E+2	1.5E+2	3.8E+2	1.8E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	07:20
07:25	2.5E+2	1.4E+2	3.6E+2	.	.	4.5E+2	1.4E+2	3.6E+2	1.7E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	07:25
07:30	2.4E+2	1.4E+2	3.5E+2	.	.	4.3E+2	1.4E+2	3.5E+2	1.7E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	07:30
07:35	2.3E+2	1.3E+2	3.3E+2	.	.	4.1E+2	1.3E+2	3.3E+2	1.7E+0	1.0E+0	1.2E+1	1.2E+1	.	.	.	07:35
07:40	2.2E+2	1.2E+2	3.2E+2	.	.	3.9E+2	1.2E+2	3.2E+2	1.6E+0	1.0E+0	1.1E+1	1.1E+1	.	.	.	07:40
07:45	2.1E+2	1.2E+2	3.0E+2	.	.	3.7E+2	1.2E+2	3.0E+2	1.6E+0	1.0E+0	1.1E+1	1.1E+1	.	.	.	07:45
07:50	2.0E+2	1.1E+2	2.9E+2	.	.	3.5E+2	1.1E+2	2.9E+2	1.6E+0	1.0E+0	1.1E+1	1.1E+1	.	.	.	07:50
07:55	1.9E+2	1.1E+2	2.7E+2	.	.	3.3E+2	1.1E+2	2.7E+2	1.6E+0	1.0E+0	1.1E+1	1.1E+1	.	.	.	07:55
08:00	1.8E+2	1.0E+2	2.6E+2	.	.	3.2E+2	1.0E+2	2.6E+2	1.6E+0	1.0E+0	1.0E+1	1.0E+1	.	.	.	08:00

Time (Min)	2-112A UCntmt P	2-112B UCntmt N	2-112C UCntmt I	2-271 Up Cntmt	2-272 Up Cntmt	2-106A Lo Cntmt	2-106B Lo Cntmt	2-106C Lo Cntmt	2-273 Lo Cntmt	2-274 Lo Cntmt	2-130 Purge	2-131 Purge	2-60 Lo Cntmt	2-61 Lo Cntmt	2-62 Lo Cntmt	08-01-1993 16:27:37
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	MIN to MAX Units
03:15	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:15
03:20	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:20
03:25	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:25
03:30	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:30
03:35	1.5E+1	1.0E+1	1.2E+1	.	.	1.5E+1	1.0E+1	1.2E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:35
03:40	3.4E+1	1.9E+1	2.6E+1	.	.	3.4E+1	1.9E+1	2.6E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:40
03:45	6.2E+1	3.5E+1	4.8E+1	.	.	6.2E+1	3.5E+1	4.8E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:45
03:50	9.8E+1	5.6E+1	7.7E+1	.	.	9.8E+1	5.6E+1	7.7E+1	.	.	1.0E+1	1.0E+1	.	.	.	03:50
03:55	1.4E+2	8.1E+1	1.1E+2	.	.	1.4E+2	8.1E+1	1.1E+2	.	.	1.0E+1	1.0E+1	.	.	.	03:55
04:00	1.9E+2	1.1E+2	1.5E+2	.	.	1.9E+2	1.1E+2	1.5E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:00
04:05	2.4E+2	1.4E+2	1.9E+2	.	.	2.4E+2	1.4E+2	1.9E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:05
04:10	3.1E+2	1.7E+2	2.4E+2	.	.	3.1E+2	1.7E+2	2.4E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:10
04:15	3.7E+2	2.1E+2	2.9E+2	.	.	3.7E+2	2.1E+2	2.9E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:15
04:20	4.4E+2	2.5E+2	3.4E+2	.	.	4.4E+2	2.5E+2	3.4E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:20
04:25	5.1E+2	2.9E+2	4.0E+2	.	.	5.1E+2	2.9E+2	4.0E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:25
04:30	5.8E+2	3.3E+2	4.5E+2	.	.	5.8E+2	3.3E+2	4.5E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:30
04:35	6.6E+2	3.8E+2	5.1E+2	.	.	6.6E+2	3.8E+2	5.1E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:35
04:40	7.3E+2	4.2E+2	5.7E+2	.	.	7.3E+2	4.2E+2	5.7E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:40
04:45	8.1E+2	4.6E+2	6.3E+2	.	.	8.1E+2	4.6E+2	6.3E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:45
04:50	8.8E+2	5.1E+2	6.9E+2	.	.	8.8E+2	5.1E+2	6.9E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:50
04:55	9.5E+2	5.5E+2	7.4E+2	.	.	9.5E+2	5.5E+2	7.4E+2	.	.	1.0E+1	1.0E+1	.	.	.	04:55
05:00	1.0E+3	5.8E+2	7.9E+2	.	.	1.0E+3	5.8E+2	7.9E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:00
05:05	1.0E+3	6.1E+2	8.3E+2	.	.	1.0E+3	6.1E+2	8.3E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:05
05:10	1.1E+3	6.3E+2	8.6E+2	.	.	1.1E+3	6.3E+2	8.6E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:10
05:15	1.1E+3	6.5E+2	8.9E+2	.	.	1.1E+3	6.5E+2	8.9E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:15
05:20	1.1E+3	6.7E+2	9.1E+2	.	.	1.1E+3	6.7E+2	9.1E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:20
05:25	1.1E+3	6.8E+2	9.2E+2	.	.	1.1E+3	6.8E+2	9.2E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:25
05:30	1.1E+3	6.8E+2	9.2E+2	.	.	1.1E+3	6.8E+2	9.2E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:30
05:35	1.1E+3	6.8E+2	9.2E+2	.	.	1.1E+3	6.8E+2	9.2E+2	.	.	1.0E+1	1.0E+1	.	.	.	05:35
05:40	1.1E+3	6.7E+2	9.1E+2	.	.	1.1E+3	6.7E+2	9.1E+2	.	.	1.1E+1	1.1E+1	.	.	.	05:40
05:45	1.1E+3	6.6E+2	9.0E+2	.	.	1.1E+3	6.6E+2	9.0E+2	.	.	1.1E+1	1.1E+1	.	.	.	05:45
05:50	1.1E+3	6.4E+2	8.8E+2	.	.	1.1E+3	6.4E+2	8.8E+2	.	.	1.2E+1	1.2E+1	.	.	.	05:50
05:55	1.0E+3	6.2E+2	8.5E+2	.	.	1.0E+3	6.2E+2	8.5E+2	.	.	1.2E+1	1.2E+1	.	.	.	05:55
06:00	1.0E+3	6.0E+2	8.1E+2	.	.	1.0E+3	6.0E+2	8.1E+2	.	.	1.3E+1	1.3E+1	.	.	.	06:00
06:05	9.9E+2	5.7E+2	7.7E+2	.	.	9.9E+2	5.7E+2	7.7E+2	.	.	1.3E+1	1.3E+1	.	.	.	06:05
06:10	9.4E+2	5.4E+2	7.3E+2	.	.	9.4E+2	5.4E+2	7.3E+2	.	.	1.3E+1	1.3E+1	.	.	.	06:10
06:15	9.0E+2	5.1E+2	7.0E+2	.	.	9.0E+2	5.1E+2	7.0E+2	.	.	1.3E+1	1.3E+1	.	.	.	06:15
06:20	8.5E+2	4.9E+2	6.6E+2	.	.	8.5E+2	4.9E+2	6.6E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:20
06:25	8.1E+2	4.6E+2	6.3E+2	.	.	8.1E+2	4.6E+2	6.3E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:25
06:30	7.7E+2	4.4E+2	6.0E+2	.	.	7.7E+2	4.4E+2	6.0E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:30

Time (Min)	2-112A UCntmt P	2-112B UCntmt N	2-112C UCntmt I	2-271 Up Cntmt	2-272 Up Cntmt	2-106A Lo Cntmt	2-106B Lo Cntmt	2-106C Lo Cntmt	2-273 Lo Cntmt	2-274 Lo Cntmt	2-130 Purge	2-131 Purge	2-60 Lo Cntmt	2-61 Lo Cntmt	2-62 Lo Cntmt	08-01-1993 16:28:45
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+00 to 1.0E+08 R/hr	1.0E+00 to 1.0E+08 R/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	MIN to MAX Units
06:35	7.3E+2	4.2E+2	5.7E+2	.	.	7.3E+2	4.2E+2	5.7E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:35
06:40	7.0E+2	4.0E+2	5.4E+2	.	.	7.0E+2	4.0E+2	5.4E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:40
06:45	6.6E+2	3.8E+2	5.2E+2	.	.	6.6E+2	3.8E+2	5.2E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:45
06:50	6.3E+2	3.6E+2	4.9E+2	.	.	6.3E+2	3.6E+2	4.9E+2	.	.	1.4E+1	1.4E+1	.	.	.	06:50
06:55	6.0E+2	3.4E+2	4.7E+2	.	.	6.0E+2	3.4E+2	4.7E+2	.	.	1.3E+1	1.3E+1	.	.	.	06:55
07:00	5.7E+2	3.3E+2	4.5E+2	.	.	5.7E+2	3.3E+2	4.5E+2	.	.	1.3E+1	1.3E+1	.	.	.	07:00
07:05	5.4E+2	3.1E+2	4.2E+2	.	.	5.4E+2	3.1E+2	4.2E+2	.	.	1.3E+1	1.3E+1	.	.	.	07:05
07:10	5.2E+2	3.0E+2	4.0E+2	.	.	5.2E+2	3.0E+2	4.0E+2	.	.	1.3E+1	1.3E+1	.	.	.	07:10
07:15	4.9E+2	2.8E+2	3.8E+2	.	.	4.9E+2	2.8E+2	3.8E+2	.	.	1.3E+1	1.3E+1	.	.	.	07:15
07:20	4.7E+2	2.7E+2	3.7E+2	.	.	4.7E+2	2.7E+2	3.7E+2	.	.	1.3E+1	1.3E+1	.	.	.	07:20
07:25	4.5E+2	2.6E+2	3.5E+2	.	.	4.5E+2	2.6E+2	3.5E+2	.	.	1.2E+1	1.2E+1	.	.	.	07:25
07:30	4.3E+2	2.4E+2	3.3E+2	.	.	4.3E+2	2.4E+2	3.3E+2	.	.	1.2E+1	1.2E+1	.	.	.	07:30
07:35	4.1E+2	2.3E+2	3.2E+2	.	.	4.1E+2	2.3E+2	3.2E+2	.	.	1.2E+1	1.2E+1	.	.	.	07:35
07:40	3.9E+2	2.2E+2	3.0E+2	.	.	3.9E+2	2.2E+2	3.0E+2	.	.	1.2E+1	1.2E+1	.	.	.	07:40
07:45	3.7E+2	2.1E+2	2.9E+2	.	.	3.7E+2	2.1E+2	2.9E+2	.	.	1.2E+1	1.2E+1	.	.	.	07:45
07:50	3.5E+2	2.0E+2	2.7E+2	.	.	3.5E+2	2.0E+2	2.7E+2	.	.	1.1E+1	1.1E+1	.	.	.	07:50
07:55	3.3E+2	1.9E+2	2.6E+2	.	.	3.3E+2	1.9E+2	2.6E+2	.	.	1.1E+1	1.1E+1	.	.	.	07:55
08:00	3.2E+2	1.8E+2	2.5E+2	.	.	3.2E+2	1.8E+2	2.5E+2	.	.	1.1E+1	1.1E+1	.	.	.	08:00

Time (Min)	0-105 CR CAM	0-125 CR Intak	0-126 CR Intak	0-205 CR Emerg	0-206 CR Emerg	1-400C ShlBld N	1-260 ShldBldg	1-261 ShldBldg	2-400C ShlBld N	2-260 ShldBldg	2-261 ShldBldg	0-102 FuelPool	0-103 FuelPool	This col unused	This col unused	08-01-1993 16:26:34
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-02 to 9.9E+09 uCi/s	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 1.0E+07 mr/hr	1.0E-02 to 9.9E+09 uCi/s	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 1.0E+07 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	0.0E+00 to 0.0E+00 UNUSED	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
00:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:05
00:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:10
00:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:15
00:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:20
00:22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:22
00:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:25
00:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:30
00:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:35
00:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:40
00:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:45
00:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:50
00:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:55
01:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:00
01:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:05
01:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:10
01:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:15
01:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:20
01:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:25
01:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:30
01:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:35
01:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:40
01:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:45
01:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:50
01:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:55
02:00	.	1.0E+2	9.6E+1	1.0E+1	1.0E+1	.	.	.	.	.	.	.	.	.	.	02:00
02:05	1.0E+1	1.0E+2	1.0E+2	1.0E+1	1.0E+1	.	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	.	.	.	.	02:05
02:10	1.0E+1	1.1E+2	1.0E+2	1.0E+1	1.0E+1	8.3E+1	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:10
02:15	1.0E+1	1.1E+2	1.1E+2	1.0E+1	1.0E+1	9.3E+1	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:15
02:20	1.0E+1	1.2E+2	1.1E+2	1.0E+1	1.0E+1	1.0E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:20
02:25	1.0E+1	1.2E+2	1.2E+2	1.0E+1	1.0E+1	1.1E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:25
02:30	1.0E+1	1.3E+2	1.2E+2	1.0E+1	1.0E+1	1.2E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:30
02:35	1.0E+1	1.3E+2	1.3E+2	1.0E+1	1.0E+1	1.3E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:35
02:40	1.0E+1	1.4E+2	1.3E+2	1.0E+1	1.0E+1	1.4E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:40
02:45	1.0E+1	1.4E+2	1.3E+2	1.0E+1	1.0E+1	1.5E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:45
02:50	1.0E+1	1.4E+2	1.4E+2	1.0E+1	1.0E+1	1.6E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:50
02:55	1.0E+1	1.5E+2	1.4E+2	1.0E+1	1.0E+1	1.7E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	02:55
03:00	1.0E+1	1.5E+2	1.4E+2	1.0E+1	1.0E+1	1.8E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:00
03:05	1.0E+1	1.6E+2	1.5E+2	1.0E+1	1.0E+1	1.9E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:05
03:10	1.0E+1	1.6E+2	1.5E+2	1.0E+1	1.0E+1	2.0E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:10

Time (Min)	0-105 CR CAM	0-125 CR Intak	0-126 CR Intak	0-205 CR Emerg	0-206 CR Emerg	1-400C ShlBld N	1-260 ShldBldg	1-261 ShldBldg	2-400C ShlBld N	2-260 ShldBldg	2-261 ShldBldg	0-102 FuelPool	0-103 FuelPool	This col unused	This col unused	08-01-1993 16:27:37
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-02 to 9.9E+09 uCi/s	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 1.0E+07 mr/hr	1.0E-02 to 9.9E+09 uCi/s	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 1.0E+07 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	0.0E+00 to 0.0E+00 UNUSED	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
03:15	1.0E+1	1.6E+2	1.5E+2	1.0E+1	1.0E+1	2.1E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:15
03:20	1.0E+1	3.0E+3@	2.8E+3@	3.1E+1	2.9E+1	2.2E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:20
03:25	1.0E+1	1.0E+4@	9.5E+3@	1.0E+2	9.7E+1	7.6E+2	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:25
03:30	1.0E+1	2.3E+4@	2.2E+4@	2.4E+2	2.3E+2	2.1E+3	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E-1	1.0E-1	.	.	03:30
03:35	1.0E+1	4.6E+4@	4.4E+4@	4.8E+2@	4.5E+2@	4.7E+3	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.5E-1	1.5E-1	.	.	03:35
03:40	1.0E+1	7.2E+4@	6.8E+4@	7.4E+2@	7.0E+2@	9.2E+3	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	3.4E-1	3.3E-1	.	.	03:40
03:45	1.0E+1	9.7E+4@	9.3E+4@	1.0E+3@	9.4E+2@	1.4E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	6.2E-1	6.0E-1	.	.	03:45
03:50	1.0E+1	1.2E+5@	1.1E+5@	1.2E+3@	1.1E+3@	2.0E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	9.9E-1	9.5E-1	.	.	03:50
03:55	1.0E+1	1.4E+5@	1.3E+5@	1.4E+3@	1.4E+3@	2.5E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.4E+0	1.3E+0	.	.	03:55
04:00	1.0E+1	1.6E+5@	1.5E+5@	1.7E+3@	1.6E+3@	3.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.9E+0	1.8E+0	.	.	04:00
04:05	1.0E+1	1.8E+5@	1.7E+5@	1.9E+3@	1.8E+3@	3.7E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	2.5E+0	2.4E+0	.	.	04:05
04:10	1.0E+1	2.1E+5@	1.9E+5@	2.1E+3@	2.0E+3@	4.2E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	3.2E+0	3.0E+0	.	.	04:10
04:15	1.0E+1	2.3E+5@	2.1E+5@	2.3E+3@	2.2E+3@	4.8E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	3.8E+0	3.7E+0	.	.	04:15
04:20	1.0E+1	2.4E+5@	2.3E+5@	2.5E+3@	2.4E+3@	5.4E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	4.6E+0	4.4E+0	.	.	04:20
04:25	1.0E+1	2.6E+5@	2.5E+5@	2.7E+3@	2.5E+3@	6.0E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	5.4E+0	5.2E+0	.	.	04:25
04:30	1.0E+1	2.8E+5@	2.7E+5@	2.9E+3@	2.7E+3@	6.6E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	6.2E+0	5.9E+0	.	.	04:30
04:35	1.0E+1	3.0E+5@	2.8E+5@	3.1E+3@	2.9E+3@	7.2E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	7.0E+0	6.7E+0	.	.	04:35
04:40	1.0E+1	3.1E+5@	3.0E+5@	3.2E+3@	3.0E+3@	7.7E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	7.9E+0	7.6E+0	.	.	04:40
04:45	1.0E+1	3.3E+5@	3.1E+5@	3.4E+3@	3.2E+3@	8.3E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	8.7E+0	8.4E+0	.	.	04:45
04:50	1.0E+1	3.2E+5@	3.0E+5@	3.3E+3@	3.1E+3@	8.9E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	9.6E+0	9.2E+0	.	.	04:50
04:55	1.0E+1	3.1E+5@	2.9E+5@	3.2E+3@	3.0E+3@	9.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E+1	1.0E+1	.	.	04:55
05:00	1.0E+1	2.9E+5@	2.8E+5@	3.0E+3@	2.8E+3@	9.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.1E+1	1.0E+1	.	.	05:00
05:05	1.0E+1	2.8E+5@	2.6E+5@	2.8E+3@	2.7E+3@	9.2E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.1E+1	1.1E+1	.	.	05:05
05:10	1.0E+1	2.6E+5@	2.5E+5@	2.7E+3@	2.5E+3@	9.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.2E+1	1.2E+1	.	.	05:10
05:15	1.0E+1	2.4E+5@	2.3E+5@	2.5E+3@	2.3E+3@	9.0E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.2E+1	1.2E+1	.	.	05:15
05:20	1.0E+1	2.2E+5@	2.1E+5@	2.2E+3@	2.1E+3@	8.9E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.2E+1	.	.	05:20
05:25	1.0E+1	1.9E+5@	1.8E+5@	2.0E+3@	1.9E+3@	8.6E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.3E+1	.	.	05:25
05:30	1.0E+1	1.7E+5@	1.6E+5@	1.7E+3@	1.6E+3@	8.3E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.3E+1	.	.	05:30
05:35	1.0E+1	1.4E+5@	1.4E+5@	1.5E+3@	1.4E+3@	8.0E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.4E+1	1.3E+1	.	.	05:35
05:40	1.0E+1	1.2E+5@	1.1E+5@	1.2E+3@	1.1E+3@	7.6E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.4E+1	1.3E+1	.	.	05:40
05:45	1.0E+1	9.1E+4@	8.6E+4@	9.4E+2@	8.8E+2@	7.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.3E+1	.	.	05:45
05:50	1.0E+1	6.1E+4@	5.8E+4@	6.3E+2@	5.9E+2@	6.6E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.3E+1	.	.	05:50
05:55	1.0E+1	3.1E+4@	2.9E+4@	3.2E+2@	3.0E+2@	6.0E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.3E+1	.	.	05:55
06:00	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	5.4E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.3E+1	1.2E+1	.	.	06:00
06:05	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	4.7E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.2E+1	1.2E+1	.	.	06:05
06:10	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	4.6E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.2E+1	1.2E+1	.	.	06:10
06:15	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	4.4E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.2E+1	1.1E+1	.	.	06:15
06:20	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	4.3E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.1E+1	1.1E+1	.	.	06:20
06:25	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	4.2E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.1E+1	1.0E+1	.	.	06:25
06:30	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	4.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.1E+1	1.0E+1	.	.	06:30

Time (Min)	0-105 CR CAM	0-125 CR Intak	0-126 CR Intak	0-205 CR Emerg	0-206 CR Emerg	1-400C ShlBld N	1-260 ShldBldg	1-261 ShldBldg	2-400C ShlBld N	2-260 ShldBldg	2-261 ShldBldg	0-102 FuelPool	0-103 FuelPool	This col unused	This col unused	08-01-1993 16:28:45
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-02 to 9.9E+09 uCi/s	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 1.0E+07 mr/hr	1.0E-02 to 9.9E+09 uCi/s	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 1.0E+07 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	0.0E+00 to 0.0E+00 UNUSED	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
06:35	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.9E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E+1	1.0E+1	.	.	06:35
06:40	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.8E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E+1	9.9E+0	.	.	06:40
06:45	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.7E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	1.0E+1	9.6E+0	.	.	06:45
06:50	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.6E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	9.7E+0	9.3E+0	.	.	06:50
06:55	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.5E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	9.4E+0	9.0E+0	.	.	06:55
07:00	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.4E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	9.1E+0	8.8E+0	.	.	07:00
07:05	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.3E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	8.8E+0	8.5E+0	.	.	07:05
07:10	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.2E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	8.6E+0	8.2E+0	.	.	07:10
07:15	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.1E+4@	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	8.3E+0	8.0E+0	.	.	07:15
07:20	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	3.0E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	8.1E+0	7.8E+0	.	.	07:20
07:25	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.9E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	7.8E+0	7.5E+0	.	.	07:25
07:30	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.8E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	7.6E+0	7.3E+0	.	.	07:30
07:35	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.7E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	7.4E+0	7.1E+0	.	.	07:35
07:40	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.7E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	7.1E+0	6.9E+0	.	.	07:40
07:45	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.6E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	6.9E+0	6.7E+0	.	.	07:45
07:50	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.5E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	6.7E+0	6.5E+0	.	.	07:50
07:55	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.4E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	6.5E+0	6.3E+0	.	.	07:55
08:00	1.0E+1	1.0E+1	1.0E+1	1.0E+1	1.0E+1	2.4E+4	1.0E-1	1.0E+3	.	1.0E-1	1.0E+3	6.3E+0	6.1E+0	.	.	08:00

Time (Min)	1-122 Liq Effl	1-118 WGDT	1-212 TB Sump	1-225 ConDemin	1-123 CSS Liq	2-123 CSS Liq	1-99 CVE Mid	1-119 CVE Low	1-255 CVE	1-256 CVE	2-99 CVE Mid	2-119 CVE Low	2-255 CVE	2-256 CVE	This col unused	08-01-1993 16:26:34
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 cpm	1.0E+03 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 cpm	1.0E+03 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
00:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:05
00:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:10
00:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:15
00:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:20
00:22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:22
00:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:25
00:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:30
00:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:35
00:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:40
00:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:45
00:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:50
00:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:55
01:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:00
01:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:05
01:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:10
01:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:15
01:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:20
01:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:25
01:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:30
01:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:35
01:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:40
01:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:45
01:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:50
01:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:55
02:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	02:00
02:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	02:05
02:10	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	.	.	.	.	.	.	02:10
02:15	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	.	.	.	.	.	.	02:15
02:20	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	.	.	.	.	.	.	02:20
02:25	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	.	.	.	.	.	.	02:25
02:30	1.0E+1	1.0E+1	.	.	1.0E+1	1.0E+1	.	.	.	.	.	.	.	.	.	02:30
02:35	1.0E+1	1.0E+1	.	.	1.1E+1	1.1E+1	.	.	.	.	.	.	.	.	.	02:35
02:40	1.0E+1	1.0E+1	.	.	1.2E+1	1.2E+1	.	.	.	.	.	.	.	.	.	02:40
02:45	1.0E+1	1.0E+1	.	.	1.4E+1	1.4E+1	.	.	.	.	.	.	.	.	.	02:45
02:50	1.0E+1	1.0E+1	.	.	1.6E+1	1.6E+1	.	.	.	.	.	.	.	.	.	02:50
02:55	1.0E+1	1.0E+1	.	.	1.7E+1	1.7E+1	.	.	.	.	.	.	.	.	.	02:55
03:00	1.0E+1	1.0E+1	.	.	1.9E+1	1.9E+1	.	.	.	.	.	.	.	.	.	03:00
03:05	1.0E+1	1.0E+1	.	.	2.1E+1	2.1E+1	.	.	.	.	.	.	.	.	.	03:05
03:10	1.0E+1	1.0E+1	.	.	2.2E+1	2.2E+1	.	.	.	.	.	.	.	.	.	03:10

Time (Min)	1-122 Liq Effl	1-118 WGDT	1-212 TB Sump	1-225 ConDemin	1-123 CSS Liq	2-123 CSS Liq	1-99 CVE Mid	1-119 CVE Low	1-255 CVE	1-256 CVE	2-99 CVE Mid	2-119 CVE Low	2-255 CVE	2-256 CVE	This col unused	08-01-1993 16:27:37
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 cpm	1.0E+03 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 cpm	1.0E+03 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
03:15	1.0E+1	1.0E+1	.	.	2.4E+1	2.4E+1	.	.	.	.	.	.	.	.	.	03:15
03:20	1.0E+1	1.0E+1	.	.	2.5E+1	2.5E+1	.	.	.	.	.	.	.	.	.	03:20
03:25	1.8E+1	1.0E+1	.	.	5.9E+1	5.9E+1	.	.	.	.	.	.	.	.	.	03:25
03:30	4.9E+1	1.0E+1	.	.	1.7E+2	1.7E+2	.	.	.	.	.	.	.	.	.	03:30
03:35	1.2E+2	1.0E+1	.	.	4.3E+2	4.3E+2	.	.	.	.	.	.	.	.	.	03:35
03:40	2.6E+2	1.0E+1	.	.	9.3E+2	9.3E+2	.	.	.	.	.	.	.	.	.	03:40
03:45	4.8E+2	1.0E+1	.	.	1.6E+3	1.6E+3	.	.	.	.	.	.	.	.	.	03:45
03:50	7.7E+2@	1.0E+1	.	.	2.6E+3@	2.6E+3@	.	.	.	.	.	.	.	.	.	03:50
03:55	1.1E+3@	1.0E+1	.	.	3.8E+3@	3.8E+3@	.	.	.	.	.	.	.	.	.	03:55
04:00	1.5E+3@	1.0E+1	.	.	5.2E+3@	5.2E+3@	.	.	.	.	.	.	.	.	.	04:00
04:05	2.0E+3@	1.0E+1	.	.	6.7E+3@	6.7E+3@	.	.	.	.	.	.	.	.	.	04:05
04:10	2.5E+3@	1.0E+1	.	.	8.4E+3@	8.4E+3@	.	.	.	.	.	.	.	.	.	04:10
04:15	3.0E+3@	1.0E+1	.	.	1.0E+4@	1.0E+4@	.	.	.	.	.	.	.	.	.	04:15
04:20	3.6E+3@	1.0E+1	.	.	1.2E+4@	1.2E+4@	.	.	.	.	.	.	.	.	.	04:20
04:25	4.3E+3@	1.0E+1	.	.	1.3E+4@	1.3E+4@	.	.	.	.	.	.	.	.	.	04:25
04:30	4.9E+3@	1.0E+1	.	.	1.5E+4@	1.5E+4@	.	.	.	.	.	.	.	.	.	04:30
04:35	5.6E+3@	1.0E+1	.	.	1.7E+4@	1.7E+4@	.	.	.	.	.	.	.	.	.	04:35
04:40	6.3E+3@	1.0E+1	.	.	1.9E+4@	1.9E+4@	.	.	.	.	.	.	.	.	.	04:40
04:45	7.1E+3@	1.0E+1	.	.	2.2E+4@	2.2E+4@	.	.	.	.	.	.	.	.	.	04:45
04:50	7.8E+3@	1.0E+1	.	.	2.4E+4@	2.4E+4@	.	.	.	.	.	.	.	.	.	04:50
04:55	8.5E+3@	1.0E+1	.	.	2.6E+4@	2.6E+4@	.	.	.	.	.	.	.	.	.	04:55
05:00	9.1E+3@	1.0E+1	.	.	2.7E+4@	2.7E+4@	.	.	.	.	.	.	.	.	.	05:00
05:05	9.8E+3@	1.0E+1	.	.	2.9E+4@	2.9E+4@	.	.	.	.	.	.	.	.	.	05:05
05:10	1.0E+4@	1.0E+1	.	.	3.0E+4@	3.0E+4@	.	.	.	.	.	.	.	.	.	05:10
05:15	1.0E+4@	1.0E+1	.	.	3.1E+4@	3.1E+4@	.	.	.	.	.	.	.	.	.	05:15
05:20	1.1E+4@	1.0E+1	.	.	3.1E+4@	3.1E+4@	.	.	.	.	.	.	.	.	.	05:20
05:25	1.1E+4@	1.0E+1	.	.	3.2E+4@	3.2E+4@	.	.	.	.	.	.	.	.	.	05:25
05:30	1.1E+4@	1.0E+1	.	.	3.2E+4@	3.2E+4@	.	.	.	.	.	.	.	.	.	05:30
05:35	1.1E+4@	1.0E+1	.	.	3.2E+4@	3.2E+4@	.	.	.	.	.	.	.	.	.	05:35
05:40	1.2E+4@	1.0E+1	.	.	3.2E+4@	3.2E+4@	.	.	.	.	.	.	.	.	.	05:40
05:45	1.2E+4@	1.0E+1	.	.	3.1E+4@	3.1E+4@	.	.	.	.	.	.	.	.	.	05:45
05:50	1.2E+4@	1.0E+1	.	.	3.0E+4@	3.0E+4@	.	.	.	.	.	.	.	.	.	05:50
05:55	1.2E+4@	1.0E+1	.	.	2.9E+4@	2.9E+4@	.	.	.	.	.	.	.	.	.	05:55
06:00	1.1E+4@	1.0E+1	.	.	2.8E+4@	2.8E+4@	.	.	.	.	.	.	.	.	.	06:00
06:05	1.1E+4@	1.0E+1	.	.	2.7E+4@	2.7E+4@	.	.	.	.	.	.	.	.	.	06:05
06:10	1.1E+4@	1.0E+1	.	.	2.5E+4@	2.5E+4@	.	.	.	.	.	.	.	.	.	06:10
06:15	1.1E+4@	1.0E+1	.	.	2.4E+4@	2.4E+4@	.	.	.	.	.	.	.	.	.	06:15
06:20	1.1E+4@	1.0E+1	.	.	2.3E+4@	2.3E+4@	.	.	.	.	.	.	.	.	.	06:20
06:25	1.0E+4@	1.0E+1	.	.	2.2E+4@	2.2E+4@	.	.	.	.	.	.	.	.	.	06:25
06:30	1.0E+4@	1.0E+1	.	.	2.1E+4@	2.1E+4@	.	.	.	.	.	.	.	.	.	06:30

Time (Min)	1-122 Liq Effl	1-118 WGDT	1-212 TB Sump	1-225 ConDemin	1-123 CSS Liq	2-123 CSS Liq	1-99 CVE Mid	1-119 CVE Low	1-255 CVE	1-256 CVE	2-99 CVE Mid	2-119 CVE Low	2-255 CVE	2-256 CVE	This col unused	08-01-1993 16:28:45
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 cpm	1.0E+03 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 cpm	1.0E+03 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
06:35	1.0E+4@	1.0E+1	.	.	2.0E+4@	2.0E+4@	.	.	.	.	.	.	.	.	.	06:35
06:40	1.0E+4@	1.0E+1	.	.	1.9E+4@	1.9E+4@	.	.	.	.	.	.	.	.	.	06:40
06:45	9.9E+3@	1.0E+1	.	.	1.8E+4@	1.8E+4@	.	.	.	.	.	.	.	.	.	06:45
06:50	9.8E+3@	1.0E+1	.	.	1.7E+4@	1.7E+4@	.	.	.	.	.	.	.	.	.	06:50
06:55	9.6E+3@	1.0E+1	.	.	1.6E+4@	1.6E+4@	.	.	.	.	.	.	.	.	.	06:55
07:00	9.4E+3@	1.0E+1	.	.	1.5E+4@	1.5E+4@	.	.	.	.	.	.	.	.	.	07:00
07:05	9.2E+3@	1.0E+1	.	.	1.4E+4@	1.4E+4@	.	.	.	.	.	.	.	.	.	07:05
07:10	9.1E+3@	1.0E+1	.	.	1.4E+4@	1.4E+4@	.	.	.	.	.	.	.	.	.	07:10
07:15	8.9E+3@	1.0E+1	.	.	1.3E+4@	1.3E+4@	.	.	.	.	.	.	.	.	.	07:15
07:20	8.7E+3@	1.0E+1	.	.	1.2E+4@	1.2E+4@	.	.	.	.	.	.	.	.	.	07:20
07:25	8.6E+3@	1.0E+1	.	.	1.2E+4@	1.2E+4@	.	.	.	.	.	.	.	.	.	07:25
07:30	8.4E+3@	1.0E+1	.	.	1.1E+4@	1.1E+4@	.	.	.	.	.	.	.	.	.	07:30
07:35	8.3E+3@	1.0E+1	.	.	1.1E+4@	1.1E+4@	.	.	.	.	.	.	.	.	.	07:35
07:40	8.2E+3@	1.0E+1	.	.	1.0E+4@	1.0E+4@	.	.	.	.	.	.	.	.	.	07:40
07:45	8.0E+3@	1.0E+1	.	.	1.0E+4@	1.0E+4@	.	.	.	.	.	.	.	.	.	07:45
07:50	7.8E+3@	1.0E+1	.	.	9.7E+3@	9.7E+3@	.	.	.	.	.	.	.	.	.	07:50
07:55	7.7E+3@	1.0E+1	.	.	9.2E+3@	9.2E+3@	.	.	.	.	.	.	.	.	.	07:55
08:00	7.6E+3@	1.0E+1	.	.	8.8E+3@	8.8E+3@	.	.	.	.	.	.	.	.	.	08:00

Time (Min)	0-133 ERCW	0-134 ERCW	0-140 ERCW	0-141 ERCW	1-104 Removed	1-170 U1 CVCS	2-104 Removed	2-170 U1 CVCS	1-101A AB Parti	1-101B AB NGas	1-101C AB Iodin	1-132A SrvBld P	1-132B SrvBlg N	1-132C SrvBld I	This col unused	08-01-1993 16:26:34
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-05 to 1.1E-04 cpm	1.0E+01 to 1.0E+06 cpm	1.0E-05 to 1.1E-04 cpm	1.0E+01 to 1.0E+06 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
00:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:05
00:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:10
00:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:15
00:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:20
00:22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:22
00:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:25
00:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:30
00:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:35
00:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:40
00:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:45
00:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:50
00:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:55
01:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:00
01:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:05
01:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:10
01:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:15
01:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:20
01:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:25
01:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:30
01:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:35
01:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:40
01:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:45
01:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:50
01:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:55
02:00	.	.	.	.	.	.	.	.	.	.	.	1.0E+1	9.4E+1	1.0E+1	.	02:00
02:05	.	.	.	.	.	.	.	.	.	.	.	1.0E+1	1.0E+2	1.0E+1	.	02:05
02:10	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	3.2E+3	8.3E+2	1.0E+1	1.0E+1	1.0E+2	1.0E+1	.	02:10
02:15	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	9.9E+3	1.0E+3	1.8E+1	1.0E+1	1.1E+2	1.0E+1	.	02:15
02:20	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	1.9E+4@	1.0E+3	2.8E+1	1.0E+1	1.1E+2	1.0E+1	.	02:20
02:25	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	3.1E+4@	1.1E+3	4.0E+1	1.0E+1	1.2E+2	1.0E+1	.	02:25
02:30	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	4.6E+4@	1.2E+3	5.1E+1	1.0E+1	1.2E+2	1.0E+1	.	02:30
02:35	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	6.3E+4@	1.2E+3	6.4E+1	1.0E+1	1.3E+2	1.0E+1	.	02:35
02:40	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	8.1E+4@	1.3E+3	7.7E+1	1.0E+1	1.3E+2	1.0E+1	.	02:40
02:45	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	1.0E+5@	1.3E+3	9.0E+1	1.0E+1	1.4E+2	1.1E+1	.	02:45
02:50	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	1.2E+5@	1.3E+3	1.0E+2	1.0E+1	1.4E+2	1.3E+1	.	02:50
02:55	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	1.4E+5@	1.4E+3	1.1E+2	1.0E+1	1.5E+2	1.4E+1	.	02:55
03:00	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	1.6E+5@	1.4E+3	1.3E+2	1.0E+1	1.5E+2	1.6E+1	.	03:00
03:05	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	1.9E+5@	1.5E+3	1.4E+2	1.0E+1	1.5E+2	1.7E+1	.	03:05
03:10	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	2.1E+5@	1.5E+3	1.6E+2	1.0E+1	1.6E+2	1.9E+1	.	03:10

Time (Min)	0-133 ERCW	0-134 ERCW	0-140 ERCW	0-141 ERCW	1-104 Removed	1-170 U1 CVCS	2-104 Removed	2-170 U1 CVCS	1-101A AB Parti	1-101B AB NGas	1-101C AB Iodin	1-132A SrvBld P	1-132B SrvBlg N	1-132C SrvBld I	This col unused	08-01-1993 16:27:37
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-05 to 1.1E-04 cpm	1.0E+01 to 1.0E+06 cpm	1.0E-05 to 1.1E-04 cpm	1.0E+01 to 1.0E+06 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
03:15	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	2.4E+5@	1.6E+3	1.7E+2	1.0E+1	1.6E+2	2.0E+1	.	03:15
03:20	1.0E+1	1.0E+1	1.0E+1	1.0E+1	.	1.0E+1	.	1.0E+1	2.7E+5@	1.6E+3	1.9E+2	1.0E+1	8.1E+2	7.5E+1	.	03:20
03:25	1.0E+1	1.2E+1	1.0E+1	1.2E+1	.	1.0E+1	.	1.0E+1	3.0E+5@	7.0E+3	6.4E+2	1.0E+1	2.3E+3	3.3E+2	.	03:25
03:30	1.7E+1	3.3E+1	1.7E+1	3.3E+1	.	1.1E+1	.	1.1E+1	3.7E+5@	2.1E+4@	2.8E+3@	1.0E+1	5.4E+3	1.0E+3	.	03:30
03:35	4.3E+1	8.4E+1	4.3E+1	8.4E+1	.	2.7E+1	.	2.7E+1	5.1E+5@	4.8E+4@	9.1E+3@	2.1E+1	1.0E+4@	2.5E+3@	.	03:35
03:40	9.4E+1	1.8E+2	9.4E+1	1.8E+2	.	5.8E+1	.	5.8E+1	8.2E+5@	9.5E+4@	2.2E+4@	3.4E+1	1.6E+4@	5.0E+3@	.	03:40
03:45	1.7E+2	3.3E+2	1.7E+2	3.3E+2	.	1.0E+2	.	1.0E+2	1.4E+6@	1.5E+5@	4.5E+4@	4.7E+1	2.2E+4@	8.4E+3@	.	03:45
03:50	2.7E+2	5.2E+2	2.7E+2	5.2E+2	.	1.7E+2	.	1.7E+2	2.4E+6@	2.0E+5@	7.7E+4@	6.2E+1	2.7E+4@	1.2E+4@	.	03:50
03:55	4.0E+2	7.6E+2@	4.0E+2	7.6E+2@	.	2.4E+2	.	2.4E+2	3.9E+6@	2.6E+5@	1.1E+5@	7.7E+1	3.2E+4@	1.8E+4@	.	03:55
04:00	5.4E+2	1.0E+3@	5.4E+2	1.0E+3@	.	3.3E+2	.	3.3E+2	6.1E+6@	3.1E+5@	1.6E+5@	9.2E+1	3.7E+4@	2.4E+4@	.	04:00
04:05	7.1E+2@	1.3E+3@	7.1E+2@	1.3E+3@	.	4.3E+2	.	4.3E+2	9.0E+6@	3.6E+5@	2.2E+5@	1.1E+2	4.2E+4@	3.1E+4@	.	04:05
04:10	8.9E+2@	1.7E+3@	8.9E+2@	1.7E+3@	.	5.5E+2	.	5.5E+2	OffHigh	4.1E+5@	2.9E+5@	1.2E+2	4.6E+4@	3.8E+4@	.	04:10
04:15	1.0E+3@	2.1E+3@	1.0E+3@	2.1E+3@	.	6.7E+2	.	6.7E+2	OffHigh	4.5E+5@	3.7E+5@	1.4E+2	5.1E+4@	4.7E+4@	.	04:15
04:20	1.3E+3@	2.5E+3@	1.3E+3@	2.5E+3@	.	8.1E+2	.	8.1E+2	OffHigh	4.9E+5@	4.5E+5@	1.6E+2	5.5E+4@	5.6E+4@	.	04:20
04:25	1.5E+3@	2.9E+3@	1.5E+3@	2.9E+3@	.	9.5E+2	.	9.5E+2	OffHigh	5.4E+5@	5.4E+5@	1.7E+2	5.9E+4@	6.7E+4@	.	04:25
04:30	1.7E+3@	3.3E+3@	1.7E+3@	3.3E+3@	.	1.1E+3	.	1.1E+3	OffHigh	5.8E+5@	6.4E+5@	1.9E+2	6.3E+4@	7.7E+4@	.	04:30
04:35	1.9E+3@	3.8E+3@	1.9E+3@	3.8E+3@	.	1.2E+3	.	1.2E+3	OffHigh	6.1E+5@	7.5E+5@	2.1E+2	6.6E+4@	8.9E+4@	.	04:35
04:40	2.2E+3@	4.3E+3@	2.2E+3@	4.3E+3@	.	1.4E+3	.	1.4E+3	OffHigh	6.5E+5@	8.7E+5@	2.3E+2	7.0E+4@	1.0E+5@	.	04:40
04:45	2.5E+3@	4.8E+3@	2.5E+3@	4.8E+3@	.	1.6E+3	.	1.6E+3	OffHigh	6.8E+5@	9.9E+5@	2.4E+2	7.3E+4@	1.1E+5@	.	04:45
04:50	2.7E+3@	5.3E+3@	2.7E+3@	5.3E+3@	.	1.7E+3	.	1.7E+3	OffHigh	7.2E+5@	1.1E+6@	2.5E+2	7.1E+4@	1.2E+5@	.	04:50
04:55	3.0E+3@	5.7E+3@	3.0E+3@	5.7E+3@	.	1.9E+3	.	1.9E+3	OffHigh	7.1E+5@	1.2E+6@	2.5E+2	6.9E+4@	1.3E+5@	.	04:55
05:00	3.2E+3@	6.2E+3@	3.2E+3@	6.2E+3@	.	2.1E+3	.	2.1E+3	OffHigh	6.8E+5@	1.3E+6@	2.6E+2	6.5E+4@	1.5E+5@	.	05:00
05:05	3.4E+3@	6.6E+3@	3.4E+3@	6.6E+3@	.	2.2E+3	.	2.2E+3	OffHigh	6.5E+5@	1.4E+6@	2.5E+2	6.2E+4@	1.6E+5@	.	05:05
05:10	3.6E+3@	6.9E+3@	3.6E+3@	6.9E+3@	.	2.4E+3	.	2.4E+3	OffHigh	6.2E+5@	1.6E+6@	2.5E+2	5.8E+4@	1.7E+5@	.	05:10
05:15	3.8E+3@	7.2E+3@	3.8E+3@	7.2E+3@	.	2.5E+3	.	2.5E+3	OffHigh	5.8E+5@	1.7E+6@	2.4E+2	5.4E+4@	1.8E+5@	.	05:15
05:20	3.9E+3@	7.5E+3@	3.9E+3@	7.5E+3@	.	2.6E+3	.	2.6E+3	OffHigh	5.4E+5@	1.8E+6@	2.3E+2	4.9E+4@	1.9E+5@	.	05:20
05:25	4.0E+3@	7.7E+3@	4.0E+3@	7.7E+3@	.	2.7E+3	.	2.7E+3	OffHigh	4.9E+5@	1.8E+6@	2.2E+2	4.4E+4@	1.9E+5@	.	05:25
05:30	4.1E+3@	7.9E+3@	4.1E+3@	7.9E+3@	.	2.8E+3	.	2.8E+3	OffHigh	4.4E+5@	1.9E+6@	2.1E+2	3.8E+4@	2.0E+5@	.	05:30
05:35	4.2E+3@	8.0E+3@	4.2E+3@	8.0E+3@	.	2.8E+3	.	2.8E+3	OffHigh	3.9E+5@	2.0E+6@	1.9E+2	3.2E+4@	2.1E+5@	.	05:35
05:40	4.2E+3@	8.1E+3@	4.2E+3@	8.1E+3@	.	2.9E+3	.	2.9E+3	OffHigh	3.3E+5@	2.1E+6@	1.8E+2	2.6E+4@	2.1E+5@	.	05:40
05:45	4.2E+3@	8.2E+3@	4.2E+3@	8.2E+3@	.	2.9E+3	.	2.9E+3	OffHigh	2.7E+5@	2.1E+6@	1.6E+2	2.0E+4@	2.2E+5@	.	05:45
05:50	4.2E+3@	8.1E+3@	4.2E+3@	8.1E+3@	.	2.9E+3	.	2.9E+3	OffHigh	2.1E+5@	2.2E+6@	1.4E+2	1.3E+4@	2.2E+5@	.	05:50
05:55	4.2E+3@	8.1E+3@	4.2E+3@	8.1E+3@	.	2.9E+3	.	2.9E+3	OffHigh	1.4E+5@	2.2E+6@	1.2E+2	7.0E+3@	2.2E+5@	.	05:55
06:00	4.1E+3@	8.0E+3@	4.1E+3@	8.0E+3@	.	2.9E+3	.	2.9E+3	OffHigh	8.3E+4@	2.2E+6@	1.0E+2	5.8E+1	2.2E+5@	.	06:00
06:05	4.1E+3@	7.8E+3@	4.1E+3@	7.8E+3@	.	2.8E+3	.	2.8E+3	OffHigh	1.4E+4	2.2E+6@	9.1E+1	5.2E+1	2.2E+5@	.	06:05
06:10	4.0E+3@	7.7E+3@	4.0E+3@	7.7E+3@	.	2.8E+3	.	2.8E+3	OffHigh	2.9E+3	2.2E+6@	8.3E+1	4.7E+1	2.2E+5@	.	06:10
06:15	3.9E+3@	7.5E+3@	3.9E+3@	7.5E+3@	.	2.7E+3	.	2.7E+3	OffHigh	1.0E+3	2.2E+6@	7.6E+1	4.4E+1	2.2E+5@	.	06:15
06:20	3.8E+3@	7.4E+3@	3.8E+3@	7.4E+3@	.	2.7E+3	.	2.7E+3	OffHigh	7.2E+2	2.2E+6@	7.1E+1	4.0E+1	2.2E+5@	.	06:20
06:25	3.8E+3@	7.2E+3@	3.8E+3@	7.2E+3@	.	2.6E+3	.	2.6E+3	OffHigh	6.5E+2	2.2E+6@	6.6E+1	3.8E+1	2.2E+5@	.	06:25
06:30	3.7E+3@	7.1E+3@	3.7E+3@	7.1E+3@	.	2.6E+3	.	2.6E+3	OffHigh	6.3E+2	2.2E+6@	6.2E+1	3.6E+1	2.2E+5@	.	06:30

Time (Min)	0-133 ERCW	0-134 ERCW	0-140 ERCW	0-141 ERCW	1-104 Removed	1-170 U1 CVCS	2-104 Removed	2-170 U1 CVCS	1-101A AB Parti	1-101B AB NGas	1-101C AB Iodin	1-132A SrvBld P	1-132B SrvBlg N	1-132C SrvBld I	This col unused	08-01-1993 16:28:45
	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-05 to 1.1E-04 cpm	1.0E+01 to 1.0E+06 cpm	1.0E-05 to 1.1E-04 cpm	1.0E+01 to 1.0E+06 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
06:35	3.6E+3@	6.9E+3@	3.6E+3@	6.9E+3@	.	2.5E+3	.	2.5E+3	OffHigh	6.1E+2	2.2E+6@	5.9E+1	3.4E+1	2.2E+5@	.	06:35
06:40	3.5E+3@	6.8E+3@	3.5E+3@	6.8E+3@	.	2.5E+3	.	2.5E+3	OffHigh	5.9E+2	2.2E+6@	5.6E+1	3.2E+1	2.2E+5@	.	06:40
06:45	3.5E+3@	6.7E+3@	3.5E+3@	6.7E+3@	.	2.4E+3	.	2.4E+3	OffHigh	5.8E+2	2.2E+6@	5.4E+1	3.1E+1	2.2E+5@	.	06:45
06:50	3.4E+3@	6.6E+3@	3.4E+3@	6.6E+3@	.	2.3E+3	.	2.3E+3	OffHigh	5.7E+2	2.2E+6@	5.2E+1	3.0E+1	2.2E+5@	.	06:50
06:55	3.4E+3@	6.5E+3@	3.4E+3@	6.5E+3@	.	2.3E+3	.	2.3E+3	OffHigh	5.5E+2	2.2E+6@	5.1E+1	2.9E+1	2.2E+5@	.	06:55
07:00	3.3E+3@	6.3E+3@	3.3E+3@	6.3E+3@	.	2.2E+3	.	2.2E+3	OffHigh	5.4E+2	2.2E+6@	5.0E+1	2.8E+1	2.2E+5@	.	07:00
07:05	3.2E+3@	6.2E+3@	3.2E+3@	6.2E+3@	.	2.2E+3	.	2.2E+3	OffHigh	5.3E+2	2.2E+6@	4.9E+1	2.8E+1	2.2E+5@	.	07:05
07:10	3.2E+3@	6.1E+3@	3.2E+3@	6.1E+3@	.	2.1E+3	.	2.1E+3	OffHigh	5.1E+2	2.2E+6@	4.8E+1	2.7E+1	2.2E+5@	.	07:10
07:15	3.1E+3@	6.0E+3@	3.1E+3@	6.0E+3@	.	2.1E+3	.	2.1E+3	OffHigh	5.0E+2	2.2E+6@	4.7E+1	2.7E+1	2.2E+5@	.	07:15
07:20	3.1E+3@	5.9E+3@	3.1E+3@	5.9E+3@	.	2.0E+3	.	2.0E+3	OffHigh	4.9E+2	2.2E+6@	4.6E+1	2.6E+1	2.2E+5@	.	07:20
07:25	3.0E+3@	5.8E+3@	3.0E+3@	5.8E+3@	.	1.9E+3	.	1.9E+3	OffHigh	4.7E+2	2.2E+6@	4.5E+1	2.6E+1	2.2E+5@	.	07:25
07:30	2.9E+3@	5.7E+3@	2.9E+3@	5.7E+3@	.	1.9E+3	.	1.9E+3	OffHigh	4.6E+2	2.2E+6@	4.5E+1	2.6E+1	2.2E+5@	.	07:30
07:35	2.9E+3@	5.6E+3@	2.9E+3@	5.6E+3@	.	1.8E+3	.	1.8E+3	OffHigh	4.5E+2	2.2E+6@	4.5E+1	2.5E+1	2.2E+5@	.	07:35
07:40	2.9E+3@	5.5E+3@	2.9E+3@	5.5E+3@	.	1.8E+3	.	1.8E+3	OffHigh	4.4E+2	2.2E+6@	4.4E+1	2.5E+1	2.2E+5@	.	07:40
07:45	2.8E+3@	5.4E+3@	2.8E+3@	5.4E+3@	.	1.7E+3	.	1.7E+3	OffHigh	4.3E+2	2.2E+6@	4.4E+1	2.5E+1	2.2E+5@	.	07:45
07:50	2.7E+3@	5.3E+3@	2.7E+3@	5.3E+3@	.	1.7E+3	.	1.7E+3	OffHigh	4.2E+2	2.2E+6@	4.4E+1	2.5E+1	2.2E+5@	.	07:50
07:55	2.7E+3@	5.2E+3@	2.7E+3@	5.2E+3@	.	1.6E+3	.	1.6E+3	OffHigh	4.1E+2	2.2E+6@	4.3E+1	2.5E+1	2.2E+5@	.	07:55
08:00	2.7E+3@	5.1E+3@	2.7E+3@	5.1E+3@	.	1.6E+3	.	1.6E+3	OffHigh	3.9E+2	2.2E+6@	4.3E+1	2.5E+1	2.2E+5@	.	08:00

Time (Min)	1-11B 676 ARM	1-10B 692 ARM	2-10B 692 ARM	0-17 692 CAM	1-7B 713 ARM	1-8B 713 ARM	1-14 713 CAM	2-7B 713 ARM	2-8B 713 ARM	0-15 713 CAM	0-16 713 CAM	2-14 713 CAM	1-280 PASF ARM	2-280 PASF ARM	This col unused	08-01-1993 16:26:34 MIN to MAX Units
	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+05 mr/hr	1.0E-01 to 1.0E+05 mr/hr	0.0E+00 to 0.0E+00 UNUSED	
00:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:05
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01:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:10
01:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:15
01:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:20
01:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:25
01:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:30
01:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:35
01:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:40
01:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:45
01:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:50
01:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:55
02:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	02:00
02:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	02:05
02:10	1.0E-1	1.0E-1	1.0E-1	2.6E+1	.	1.0E-1	.	.	1.0E-1	6.3E+1	6.3E+1	1.0E+1	1.0E-1	1.0E-1	.	02:10
02:15	1.0E-1	1.0E-1	1.0E-1	1.0E+2	1.0E-1	1.0E-1	1.0E+1	1.0E-1	1.0E-1	2.4E+2	2.4E+2	1.0E+1	1.0E-1	1.0E-1	.	02:15
02:20	1.0E-1	1.0E-1	1.0E-1	2.4E+2	1.0E-1	1.0E-1	1.0E+1	1.0E-1	1.0E-1	6.0E+2	6.0E+2	1.0E+1	1.0E-1	1.0E-1	.	02:20
02:25	1.0E-1	1.0E-1	1.0E-1	4.7E+2	1.0E-1	1.0E-1	1.0E+1	1.0E-1	1.0E-1	1.1E+3	1.1E+3	1.0E+1	1.0E-1	1.0E-1	.	02:25
02:30	1.0E-1	1.0E-1	1.0E-1	8.0E+2	1.0E-1	1.0E-1	1.3E+1	1.0E-1	1.0E-1	2.0E+3	2.0E+3	1.0E+1	1.0E-1	1.0E-1	.	02:30
02:35	1.0E-1	1.0E-1	1.0E-1	1.2E+3	1.0E-1	1.0E-1	2.6E+1	1.0E-1	1.0E-1	3.1E+3@	3.1E+3@	1.0E+1	1.0E-1	1.0E-1	.	02:35
02:40	1.0E-1	1.0E-1	1.0E-1	1.8E+3	1.0E-1	1.0E-1	4.6E+1	1.0E-1	1.0E-1	4.5E+3@	4.5E+3@	1.5E+1	1.0E-1	1.0E-1	.	02:40
02:45	1.0E-1	1.0E-1	1.0E-1	2.5E+3	1.0E-1	1.0E-1	7.5E+1	1.0E-1	1.0E-1	6.3E+3@	6.3E+3@	2.5E+1	1.0E-1	1.0E-1	.	02:45
02:50	1.0E-1	1.0E-1	1.0E-1	3.3E+3@	1.0E-1	1.0E-1	1.1E+2	1.0E-1	1.0E-1	8.5E+3@	8.5E+3@	3.8E+1	1.0E-1	1.0E-1	.	02:50
02:55	1.0E-1	1.0E-1	1.0E-1	4.3E+3@	1.0E-1	1.0E-1	1.6E+2	1.0E-1	1.0E-1	1.1E+4@	1.1E+4@	5.6E+1	1.0E-1	1.0E-1	.	02:55
03:00	1.0E-1	1.0E-1	1.0E-1	5.4E+3@	1.0E-1	1.0E-1	2.3E+2	1.0E-1	1.0E-1	1.4E+4@	1.4E+4@	7.9E+1	1.0E-1	1.0E-1	.	03:00
03:05	1.0E-1	1.0E-1	1.0E-1	6.6E+3@	1.0E-1	1.0E-1	3.2E+2	1.0E-1	1.0E-1	1.7E+4@	1.7E+4@	1.0E+2	1.0E-1	1.0E-1	.	03:05
03:10	1.0E-1	1.0E-1	1.0E-1	8.1E+3@	1.0E-1	1.0E-1	4.2E+2	1.0E-1	1.0E-1	2.1E+4@	2.1E+4@	1.4E+2	1.0E-1	1.0E-1	.	03:10

Time (Min)	1-11B 676 ARM	1-10B 692 ARM	2-10B 692 ARM	0-17 692 CAM	1-7B 713 ARM	1-8B 713 ARM	1-14 713 CAM	2-7B 713 ARM	2-8B 713 ARM	0-15 713 CAM	0-16 713 CAM	2-14 713 CAM	1-280 PASF ARM	2-280 PASF ARM	This col unused	08-01-1993 16:27:37
	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+05 mr/hr	1.0E-01 to 1.0E+05 mr/hr	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
03:15	1.0E-1	1.0E-1	1.0E-1	9.6E+3@	1.0E-1	1.0E-1	5.5E+2	1.0E-1	1.0E-1	2.5E+4@	2.5E+4@	1.8E+2	1.0E-1	1.0E-1	.	03:15
03:20	1.0E-1	1.0E-1	1.0E-1	1.1E+4@	1.0E-1	1.0E-1	7.0E+2	1.0E-1	1.0E-1	3.0E+4@	3.0E+4@	2.3E+2	1.0E-1	1.0E-1	.	03:20
03:25	1.0E-1	1.0E-1	1.0E-1	1.3E+4@	1.0E-1	1.0E-1	8.8E+2	1.0E-1	1.0E-1	3.5E+4@	3.5E+4@	2.9E+2	1.0E-1	1.0E-1	.	03:25
03:30	1.0E-1	1.0E-1	1.0E-1	1.5E+4@	1.0E-1	1.0E-1	1.0E+3	1.0E-1	1.0E-1	4.1E+4@	4.1E+4@	3.7E+2	1.0E-1	1.0E-1	.	03:30
03:35	1.0E-1	1.0E-1	1.0E-1	1.9E+4@	1.0E-1	1.3E-1	1.3E+3	1.0E-1	1.4E-1	5.0E+4@	5.0E+4@	4.6E+2	1.0E-1	1.0E-1	.	03:35
03:40	1.0E-1	1.0E-1	1.0E-1	2.5E+4@	1.0E-1	2.9E-1	1.7E+3	1.0E-1	3.1E-1	6.6E+4@	6.6E+4@	5.9E+2	1.0E-1	1.0E-1	.	03:40
03:45	1.0E-1	1.5E-1	1.6E-1	3.6E+4@	1.0E-1	5.4E-1	2.2E+3	1.0E-1	5.8E-1	9.4E+4@	9.4E+4@	7.9E+2	1.0E-1	1.0E-1	.	03:45
03:50	1.0E-1	2.4E-1	2.6E-1	5.6E+4@	1.0E-1	8.7E-1	3.2E+3@	1.0E-1	9.4E-1	1.4E+5@	1.4E+5@	1.1E+3	1.0E-1	1.0E-1	.	03:50
03:55	1.0E-1	3.6E-1	3.9E-1	9.0E+4@	1.0E-1	1.2E+0	4.7E+3@	1.0E-1	1.3E+0	2.3E+5@	2.3E+5@	1.6E+3	1.0E-1	1.0E-1	.	03:55
04:00	1.0E-1	4.9E-1	5.3E-1	1.4E+5@	1.0E-1	1.7E+0	7.2E+3@	1.0E-1	1.8E+0	3.6E+5@	3.6E+5@	2.4E+3	1.0E-1	1.1E-1	.	04:00
04:05	1.0E-1	6.4E-1	6.9E-1	2.2E+5@	1.0E-1	2.2E+0	1.1E+4@	1.0E-1	2.3E+0	5.5E+5@	5.5E+5@	3.8E+3@	1.2E-1	1.5E-1	.	04:05
04:10	1.0E-1	8.0E-1	8.7E-1	3.3E+5@	1.0E-1	2.8E+0	1.7E+4@	1.0E-1	3.0E+0	8.3E+5@	8.3E+5@	5.7E+3@	1.5E-1	1.8E-1	.	04:10
04:15	1.0E-1	9.8E-1	1.0E+0	4.7E+5@	1.0E-1	3.4E+0	2.5E+4@	1.0E-1	3.6E+0	1.2E+6@	1.2E+6@	8.6E+3@	1.9E-1	2.3E-1	.	04:15
04:20	1.0E-1	1.1E+0	1.2E+0	6.7E+5@	1.0E-1	4.1E+0	3.7E+4@	1.0E-1	4.4E+0	1.6E+6@	1.6E+6@	1.2E+4@	2.3E-1	2.7E-1	.	04:20
04:25	1.0E-1	1.3E+0	1.4E+0	9.2E+5@	1.0E-1	4.8E+0	5.3E+4@	1.0E-1	5.2E+0	2.3E+6@	2.3E+6@	1.8E+4@	2.7E-1	3.2E-1	.	04:25
04:30	1.0E-1	1.5E+0	1.7E+0	1.2E+6@	1.1E-1	5.6E+0	7.4E+4@	1.0E-1	6.0E+0	3.0E+6@	3.0E+6@	2.5E+4@	3.1E-1	3.7E-1	.	04:30
04:35	1.0E-1	1.8E+0	1.9E+0	1.5E+6@	1.3E-1	6.4E+0	1.0E+5@	1.0E-1	6.9E+0	4.0E+6@	4.0E+6@	3.4E+4@	3.5E-1	4.2E-1	.	04:35
04:40	1.0E-1	2.0E+0	2.2E+0	2.0E+6@	1.6E-1	7.3E+0	1.3E+5@	1.0E-1	7.8E+0	5.1E+6@	5.1E+6@	4.6E+4@	4.0E-1	4.7E-1	.	04:40
04:45	1.0E-1	2.2E+0	2.4E+0	2.5E+6@	1.9E-1	8.2E+0	1.7E+5@	1.0E-1	8.8E+0	6.4E+6@	6.4E+6@	6.0E+4@	4.4E-1	5.3E-1	.	04:45
04:50	1.0E-1	2.5E+0	2.7E+0	3.1E+6@	2.2E-1	9.1E+0	2.3E+5@	1.0E-1	9.7E+0	7.9E+6@	7.9E+6@	7.8E+4@	4.9E-1	5.9E-1	.	04:50
04:55	1.0E-1	2.7E+0	2.9E+0	3.8E+6@	2.6E-1	9.9E+0	2.9E+5@	1.0E-1	1.0E+1@	9.7E+6@	9.7E+6@	9.9E+4@	5.4E-1	6.4E-1	.	04:55
05:00	1.0E-1	2.9E+0	3.1E+0	4.5E+6@	3.0E-1	1.0E+1@	3.7E+5@	1.0E-1	1.1E+1@	OffHigh	OffHigh	1.2E+5@	5.8E-1	6.9E-1	.	05:00
05:05	1.0E-1	3.1E+0	3.4E+0	5.4E+6@	3.4E-1	1.1E+1@	4.6E+5@	1.1E-1	1.2E+1@	OffHigh	OffHigh	1.5E+5@	6.1E-1	7.3E-1	.	05:05
05:10	1.0E-1	3.3E+0	3.5E+0	6.3E+6@	3.9E-1	1.2E+1@	5.6E+5@	1.3E-1	1.3E+1@	OffHigh	OffHigh	1.8E+5@	6.5E-1	7.7E-1	.	05:10
05:15	1.0E-1	3.4E+0	3.7E+0	7.3E+6@	4.3E-1	1.2E+1@	6.8E+5@	1.4E-1	1.3E+1@	OffHigh	OffHigh	2.2E+5@	6.8E-1	8.1E-1	.	05:15
05:20	1.0E-1	3.5E+0	3.8E+0	8.4E+6@	4.8E-1	1.3E+1@	8.1E+5@	1.6E-1	1.4E+1@	OffHigh	OffHigh	2.7E+5@	7.0E-1	8.4E-1	.	05:20
05:25	1.0E-1	3.6E+0	3.9E+0	9.5E+6@	5.3E-1	1.3E+1@	9.6E+5@	1.8E-1	1.4E+1@	OffHigh	OffHigh	3.2E+5@	7.3E-1	8.7E-1	.	05:25
05:30	1.0E-1	3.7E+0	4.0E+0	OffHigh	5.8E-1	1.4E+1@	1.1E+6@	1.9E-1	1.5E+1@	OffHigh	OffHigh	3.8E+5@	7.4E-1	8.9E-1	.	05:30
05:35	1.0E-1	3.8E+0	4.1E+0	OffHigh	6.3E-1	1.4E+1@	1.3E+6@	2.1E-1	1.5E+1@	OffHigh	OffHigh	4.4E+5@	7.6E-1	9.0E-1	.	05:35
05:40	1.0E-1	3.8E+0	4.1E+0	OffHigh	6.8E-1	1.4E+1@	1.5E+6@	2.3E-1	1.5E+1@	OffHigh	OffHigh	5.1E+5@	7.7E-1	9.1E-1	.	05:40
05:45	1.0E-1	3.8E+0	4.2E+0	OffHigh	7.3E-1	1.5E+1@	1.7E+6@	2.4E-1	1.6E+1@	OffHigh	OffHigh	5.9E+5@	7.7E-1	9.2E-1	.	05:45
05:50	1.0E-1	3.8E+0	4.1E+0	OffHigh	7.8E-1	1.5E+1@	1.9E+6@	2.6E-1	1.6E+1@	OffHigh	OffHigh	6.7E+5@	7.7E-1	9.1E-1	.	05:50
05:55	1.0E-1	3.8E+0	4.1E+0	OffHigh	8.2E-1	1.5E+1@	2.2E+6@	2.8E-1	1.6E+1@	OffHigh	OffHigh	7.6E+5@	7.6E-1	9.1E-1	.	05:55
06:00	1.0E-1	3.7E+0	4.1E+0	OffHigh	8.7E-1	1.4E+1@	2.5E+6@	2.9E-1	1.5E+1@	OffHigh	OffHigh	8.5E+5@	7.5E-1	9.0E-1	.	06:00
06:05	1.0E-1	3.7E+0	4.0E+0	OffHigh	9.2E-1	1.4E+1@	2.8E+6@	3.1E-1	1.5E+1@	OffHigh	OffHigh	9.5E+5@	7.4E-1	8.8E-1	.	06:05
06:10	1.0E-1	3.6E+0	3.9E+0	OffHigh	9.6E-1	1.4E+1@	3.1E+6@	3.3E-1	1.5E+1@	OffHigh	OffHigh	1.0E+6@	7.3E-1	8.6E-1	.	06:10
06:15	1.0E-1	3.5E+0	3.8E+0	OffHigh	1.0E+0	1.4E+1@	3.4E+6@	3.4E-1	1.5E+1@	OffHigh	OffHigh	1.1E+6@	7.1E-1	8.5E-1	.	06:15
06:20	1.0E-1	3.4E+0	3.7E+0	OffHigh	1.0E+0	1.3E+1@	3.7E+6@	3.5E-1	1.4E+1@	OffHigh	OffHigh	1.2E+6@	7.0E-1	8.3E-1	.	06:20
06:25	1.0E-1	3.4E+0	3.7E+0	OffHigh	1.0E+0	1.3E+1@	4.1E+6@	3.7E-1	1.4E+1@	OffHigh	OffHigh	1.4E+6@	6.9E-1	8.2E-1	.	06:25
06:30	1.0E-1	3.3E+0	3.6E+0	OffHigh	1.1E+0	1.3E+1@	4.5E+6@	3.8E-1	1.4E+1@	OffHigh	OffHigh	1.5E+6@	6.7E-1	8.0E-1	.	06:30

Time (Min)	1-11B 676 ARM	1-10B 692 ARM	2-10B 692 ARM	0-17 692 CAM	1-7B 713 ARM	1-8B 713 ARM	1-14 713 CAM	2-7B 713 ARM	2-8B 713 ARM	0-15 713 CAM	0-16 713 CAM	2-14 713 CAM	1-280 PASF ARM	2-280 PASF ARM	This col unused	08-01-1993 16:28:45
	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+05 mr/hr	1.0E-01 to 1.0E+05 mr/hr	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
06:35	1.0E-1	3.2E+0	3.5E+0	OffHigh	1.1E+0	1.3E+1@	4.9E+6@	3.9E-1	1.4E+1@	OffHigh	OffHigh	1.6E+6@	6.7E-1	7.9E-1	.	06:35
06:40	1.0E-1	3.2E+0	3.5E+0	OffHigh	1.1E+0	1.2E+1@	5.3E+6@	4.1E-1	1.3E+1@	OffHigh	OffHigh	1.8E+6@	6.5E-1	7.8E-1	.	06:40
06:45	1.0E-1	3.1E+0	3.4E+0	OffHigh	1.2E+0	1.2E+1@	5.7E+6@	4.2E-1	1.3E+1@	OffHigh	OffHigh	1.9E+6@	6.4E-1	7.6E-1	.	06:45
06:50	1.0E-1	3.1E+0	3.3E+0	OffHigh	1.2E+0	1.2E+1@	6.1E+6@	4.3E-1	1.3E+1@	OffHigh	OffHigh	2.0E+6@	6.3E-1	7.5E-1	.	06:50
06:55	1.0E-1	3.0E+0	3.3E+0	OffHigh	1.2E+0	1.1E+1@	6.5E+6@	4.4E-1	1.2E+1@	OffHigh	OffHigh	2.2E+6@	6.2E-1	7.4E-1	.	06:55
07:00	1.0E-1	3.0E+0	3.2E+0	OffHigh	1.2E+0	1.1E+1@	6.9E+6@	4.5E-1	1.2E+1@	OffHigh	OffHigh	2.3E+6@	6.1E-1	7.3E-1	.	07:00
07:05	1.0E-1	2.9E+0	3.2E+0	OffHigh	1.3E+0	1.1E+1@	7.4E+6@	4.6E-1	1.2E+1@	OffHigh	OffHigh	2.5E+6@	6.0E-1	7.1E-1	.	07:05
07:10	1.0E-1	2.9E+0	3.1E+0	OffHigh	1.3E+0	1.1E+1@	7.8E+6@	4.7E-1	1.1E+1@	OffHigh	OffHigh	2.7E+6@	5.9E-1	7.0E-1	.	07:10
07:15	1.0E-1	2.8E+0	3.0E+0	OffHigh	1.3E+0	1.0E+1@	8.3E+6@	4.7E-1	1.1E+1@	OffHigh	OffHigh	2.8E+6@	5.8E-1	6.9E-1	.	07:15
07:20	1.0E-1	2.8E+0	3.0E+0	OffHigh	1.3E+0	1.0E+1@	8.7E+6@	4.8E-1	1.1E+1@	OffHigh	OffHigh	3.0E+6@	5.7E-1	6.8E-1	.	07:20
07:25	1.0E-1	2.7E+0	2.9E+0	OffHigh	1.4E+0	1.0E+1@	9.2E+6@	4.9E-1	1.0E+1@	OffHigh	OffHigh	3.1E+6@	5.6E-1	6.7E-1	.	07:25
07:30	1.0E-1	2.7E+0	2.9E+0	OffHigh	1.4E+0	9.8E+0	9.7E+6@	5.0E-1	1.0E+1@	OffHigh	OffHigh	3.3E+6@	5.5E-1	6.6E-1	.	07:30
07:35	1.0E-1	2.6E+0	2.8E+0	OffHigh	1.4E+0	9.5E+0	OffHigh	5.0E-1	1.0E+1@	OffHigh	OffHigh	3.5E+6@	5.4E-1	6.5E-1	.	07:35
07:40	1.0E-1	2.6E+0	2.8E+0	OffHigh	1.4E+0	9.2E+0	OffHigh	5.1E-1	9.9E+0	OffHigh	OffHigh	3.6E+6@	5.3E-1	6.3E-1	.	07:40
07:45	1.0E-1	2.5E+0	2.7E+0	OffHigh	1.4E+0	8.9E+0	OffHigh	5.2E-1	9.6E+0	OffHigh	OffHigh	3.8E+6@	5.2E-1	6.2E-1	.	07:45
07:50	1.0E-1	2.5E+0	2.7E+0	OffHigh	1.4E+0	8.7E+0	OffHigh	5.2E-1	9.3E+0	OffHigh	OffHigh	4.0E+6@	5.2E-1	6.1E-1	.	07:50
07:55	1.0E-1	2.4E+0	2.6E+0	OffHigh	1.4E+0	8.4E+0	OffHigh	5.3E-1	9.0E+0	OffHigh	OffHigh	4.1E+6@	5.1E-1	6.0E-1	.	07:55
08:00	1.0E-1	2.4E+0	2.6E+0	OffHigh	1.4E+0	8.2E+0	OffHigh	5.3E-1	8.7E+0	OffHigh	OffHigh	4.3E+6@	5.0E-1	5.9E-1	.	08:00

Time (Min)	0-5B 737 ARM	1-6B 737 ARM	2-6B 737 ARM	2-1 757 ARM	0-135 CR ARM	1-1 757 ARM	0-12 757 CAM	1-290 U1 RHR A	1-291 U1 RHR A	1-292 U1 RHR B	1-293 U1 RHR B	2-290 U2 RHR A	2-291 U2 RHR A	2-292 U2 RHR B	2-293 U2 RHR B	08-01-1993 16:26:34
	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	MIN to MAX Units
00:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:05
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00:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:15
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00:22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:22
00:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:25
00:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:30
00:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:35
00:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:40
00:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:45
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00:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	00:55
01:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:00
01:05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:05
01:10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:10
01:15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:15
01:20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:20
01:25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:25
01:30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:30
01:35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:35
01:40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:40
01:45	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:45
01:50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:50
01:55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	01:55
02:00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	02:00
02:05	.	.	.	.	1.0E-1	.	.	.	.	.	.	.	.	.	.	02:05
02:10	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	8.1E+1	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:10
02:15	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	3.1E+2	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:15
02:20	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	7.6E+2	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:20
02:25	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.4E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:25
02:30	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	2.4E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:30
02:35	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	3.8E+3@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:35
02:40	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	5.5E+3@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:40
02:45	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	7.6E+3@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:45
02:50	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:50
02:55	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.3E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	02:55
03:00	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.6E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:00
03:05	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	2.0E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:05
03:10	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	2.4E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:10

Time (Min)	0-5B 737 ARM	1-6B 737 ARM	2-6B 737 ARM	2-1 757 ARM	0-135 CR ARM	1-1 757 ARM	0-12 757 CAM	1-290 U1 RHR A	1-291 U1 RHR A	1-292 U1 RHR B	1-293 U1 RHR B	2-290 U2 RHR A	2-291 U2 RHR A	2-292 U2 RHR B	2-293 U2 RHR B	08-01-1993 16:27:38
	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	MIN to MAX Units
03:15	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	2.8E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:15
03:20	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	3.4E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:20
03:25	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	1.0E-1	3.9E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:25
03:30	1.0E-1	1.1E-1	1.1E-1	1.1E-1	1.0E-1	1.0E-1	4.6E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:30
03:35	2.3E-1	2.8E-1	2.9E-1	2.8E-1	1.0E-1	2.7E-1	5.7E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:35
03:40	5.1E-1	6.2E-1	6.3E-1	6.2E-1	1.0E-1	5.9E-1	7.5E+4@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:40
03:45	9.2E-1	1.1E+0	1.1E+0	1.1E+0	1.0E-1	1.0E+0	1.1E+5@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:45
03:50	1.4E+0	1.7E+0	1.8E+0	1.7E+0	1.0E-1	1.7E+0	1.7E+5@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:50
03:55	2.1E+0	2.5E+0	2.6E+0	2.6E+0	1.0E-1	2.4E+0	2.7E+5@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	03:55
04:00	2.8E+0	3.4E+0	3.5E+0	3.5E+0	1.0E-1	3.3E+0	4.3E+5@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:00
04:05	3.6E+0	4.4E+0	4.5E+0	4.6E+0	1.0E-1	4.4E+0	6.7E+5@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:05
04:10	4.6E+0	5.6E+0	5.7E+0	5.7E+0	1.0E-1	5.5E+0	1.0E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:10
04:15	5.5E+0	6.7E+0	6.9E+0	7.0E+0	1.0E-1	6.6E+0	1.4E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:15
04:20	6.5E+0	8.0E+0	8.1E+0	8.3E+0	1.0E-1	7.9E+0	2.0E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:20
04:25	7.6E+0	9.2E+0	9.4E+0	9.7E+0	1.0E-1	9.3E+0	2.8E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:25
04:30	8.7E+0	1.0E+1@	1.0E+1@	1.1E+1@	1.0E-1	1.0E+1@	3.7E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:30
04:35	9.8E+0	1.2E+1@	1.2E+1@	1.2E+1@	1.0E-1	1.2E+1@	4.8E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:35
04:40	1.1E+1@	1.3E+1@	1.3E+1@	1.4E+1@	1.0E-1	1.3E+1@	6.1E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:40
04:45	1.2E+1@	1.4E+1@	1.5E+1@	1.5E+1@	1.0E-1	1.5E+1@	7.7E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:45
04:50	1.3E+1@	1.6E+1@	1.6E+1@	1.7E+1@	1.0E-1	1.6E+1@	9.5E+6@	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:50
04:55	1.4E+1@	1.7E+1@	1.7E+1@	1.8E+1@	1.0E-1	1.8E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	04:55
05:00	1.5E+1@	1.8E+1@	1.8E+1@	2.0E+1@	1.0E-1	1.9E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:00
05:05	1.5E+1@	1.9E+1@	1.9E+1@	2.1E+1@	1.0E-1	2.0E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:05
05:10	1.6E+1@	2.0E+1@	2.0E+1@	2.2E+1@	1.0E-1	2.1E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:10
05:15	1.7E+1@	2.0E+1@	2.1E+1@	2.3E+1@	1.0E-1	2.2E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:15
05:20	1.7E+1@	2.1E+1@	2.1E+1@	2.4E+1@	1.0E-1	2.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:20
05:25	1.7E+1@	2.1E+1@	2.1E+1@	2.4E+1@	1.0E-1	2.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:25
05:30	1.7E+1@	2.1E+1@	2.2E+1@	2.5E+1@	1.0E-1	2.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:30
05:35	1.7E+1@	2.1E+1@	2.1E+1@	2.5E+1@	1.0E-1	2.4E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:35
05:40	1.7E+1@	2.1E+1@	2.1E+1@	2.5E+1@	1.0E-1	2.4E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:40
05:45	1.7E+1@	2.0E+1@	2.1E+1@	2.5E+1@	1.0E-1	2.4E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:45
05:50	1.6E+1@	2.0E+1@	2.0E+1@	2.5E+1@	1.0E-1	2.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:50
05:55	1.6E+1@	1.9E+1@	2.0E+1@	2.4E+1@	1.0E-1	2.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	05:55
06:00	1.5E+1@	1.8E+1@	1.9E+1@	2.4E+1@	1.0E-1	2.2E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:00
06:05	1.4E+1@	1.7E+1@	1.8E+1@	2.3E+1@	1.0E-1	2.2E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:05
06:10	1.4E+1@	1.7E+1@	1.7E+1@	2.2E+1@	1.0E-1	2.1E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:10
06:15	1.3E+1@	1.6E+1@	1.6E+1@	2.1E+1@	1.0E-1	2.0E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:15
06:20	1.2E+1@	1.5E+1@	1.5E+1@	2.1E+1@	1.0E-1	2.0E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:20
06:25	1.2E+1@	1.4E+1@	1.5E+1@	2.0E+1@	1.0E-1	1.9E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:25
06:30	1.1E+1@	1.4E+1@	1.4E+1@	1.9E+1@	1.0E-1	1.9E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:30

Time (Min)	0-5B 737 ARM	1-6B 737 ARM	2-6B 737 ARM	2-1 757 ARM	0-135 CR ARM	1-1 757 ARM	0-12 757 CAM	1-290 U1 RHR A	1-291 U1 RHR A	1-292 U1 RHR B	1-293 U1 RHR B	2-290 U2 RHR A	2-291 U2 RHR A	2-292 U2 RHR B	2-293 U2 RHR B	08-01-1993 16:28:45
	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+01 to 1.0E+07 cpm	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	1.0E-01 to 1.0E+04 mr/hr	1.0E+03 to 9.9E+09 mr/hr	MIN to MAX Units
06:35	1.1E+1@	1.3E+1@	1.3E+1@	1.9E+1@	1.0E-1	1.8E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:35
06:40	1.0E+1@	1.2E+1@	1.2E+1@	1.8E+1@	1.0E-1	1.7E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:40
06:45	9.9E+0	1.2E+1@	1.2E+1@	1.8E+1@	1.0E-1	1.7E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:45
06:50	9.4E+0	1.1E+1@	1.1E+1@	1.7E+1@	1.0E-1	1.6E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:50
06:55	8.9E+0	1.0E+1@	1.1E+1@	1.7E+1@	1.0E-1	1.6E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	06:55
07:00	8.5E+0	1.0E+1@	1.0E+1@	1.6E+1@	1.0E-1	1.5E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:00
07:05	8.1E+0	9.9E+0	1.0E+1@	1.6E+1@	1.0E-1	1.5E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:05
07:10	7.7E+0	9.4E+0	9.6E+0	1.5E+1@	1.0E-1	1.4E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:10
07:15	7.4E+0	9.0E+0	9.1E+0	1.5E+1@	1.0E-1	1.4E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:15
07:20	7.0E+0	8.6E+0	8.7E+0	1.4E+1@	1.0E-1	1.4E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:20
07:25	6.7E+0	8.1E+0	8.3E+0	1.4E+1@	1.0E-1	1.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:25
07:30	6.4E+0	7.8E+0	7.9E+0	1.3E+1@	1.0E-1	1.3E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.0E-1	1.0E+3	07:30
07:35	6.1E+0	7.4E+0	7.6E+0	1.3E+1@	1.0E-1	1.2E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.1E-1	1.0E+3	1.1E-1	1.0E+3	07:35
07:40	5.8E+0	7.1E+0	7.2E+0	1.3E+1@	1.0E-1	1.2E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.1E-1	1.0E+3	1.1E-1	1.0E+3	07:40
07:45	5.5E+0	6.7E+0	6.8E+0	1.2E+1@	1.0E-1	1.2E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.1E-1	1.0E+3	1.1E-1	1.0E+3	07:45
07:50	5.3E+0	6.4E+0	6.5E+0	1.2E+1@	1.0E-1	1.1E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.1E-1	1.0E+3	1.1E-1	1.0E+3	07:50
07:55	5.0E+0	6.1E+0	6.2E+0	1.2E+1@	1.0E-1	1.1E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.1E-1	1.0E+3	1.1E-1	1.0E+3	07:55
08:00	4.8E+0	5.8E+0	5.9E+0	1.1E+1@	1.0E-1	1.1E+1@	OffHigh	1.0E-1	1.0E+3	1.0E-1	1.0E+3	1.1E-1	1.0E+3	1.1E-1	1.0E+3	08:00

Time (Min)	1-421 MS Line1	1-422 MS Line2	1-423 MS Line3	1-424 MS Line4	1-120 SG BloDn	1-121 SG BloDn	1-124 SG BloDn	2-421 MS Line1	2-422 MS Line2	2-423 MS Line3	2-424 MS Line4	2-120 SG BloDn	2-121 SG BloDn	2-124 SG BloDn	This col unused	08-01-1993 16:26:34
	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
00:00	.	.	.	.	.	.	.	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:00
00:05	.	.	.	.	.	.	.	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:05
00:10	.	.	.	.	.	.	.	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:10
00:15	.	.	.	.	.	.	.	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:15
00:20	.	.	.	.	.	.	.	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:20
00:22	.	5.1E-3	.	.	2.8E+5@	2.8E+5@	2.8E+5@	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:22
00:25	.	3.5E-2@	.	.	1.8E+6@	1.8E+6@	1.8E+6@	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:25
00:30	.	9.9E-2@	.	.	4.7E+6@	4.7E+6@	4.7E+6@	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:30
00:35	.	1.6E-1@	.	.	7.1E+6@	7.1E+6@	7.1E+6@	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:35
00:40	.	2.2E-1@	.	.	9.3E+6@	9.3E+6@	9.3E+6@	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:40
00:45	.	2.9E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:45
00:50	.	3.6E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:50
00:55	.	4.3E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	00:55
01:00	.	5.0E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:00
01:05	.	5.7E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:05
01:10	.	6.5E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:10
01:15	.	7.2E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:15
01:20	.	8.0E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:20
01:25	.	8.8E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:25
01:30	.	9.6E-1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:30
01:35	.	1.0E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:35
01:40	.	1.1E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:40
01:45	.	1.2E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:45
01:50	.	1.3E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:50
01:55	.	1.5E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	01:55
02:00	.	1.6E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	02:00
02:05	.	1.7E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	.	.	.	.	02:05
02:10	.	1.8E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:10
02:15	.	1.9E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:15
02:20	.	1.9E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:20
02:25	.	2.0E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:25
02:30	.	2.1E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:30
02:35	.	2.2E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:35
02:40	.	2.3E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:40
02:45	.	2.4E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:45
02:50	.	2.4E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:50
02:55	.	2.5E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	02:55
03:00	.	2.6E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:00
03:05	.	2.7E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:05
03:10	.	2.7E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:10

Time (Min)	1-421 MS Line1	1-422 MS Line2	1-423 MS Line3	1-424 MS Line4	1-120 SG BloDn	1-121 SG BloDn	1-124 SG BloDn	2-421 MS Line1	2-422 MS Line2	2-423 MS Line3	2-424 MS Line4	2-120 SG BloDn	2-121 SG BloDn	2-124 SG BloDn	This col unused	08-01-1993 16:27:38
	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
03:15	.	2.8E+0@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:15
03:20	.	1.3E+1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:20
03:25	.	4.1E+1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:25
03:30	.	9.3E+1@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:30
03:35	.	1.8E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:35
03:40	.	2.8E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+1	1.0E+1	1.0E+1	.	03:40
03:45	.	3.7E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.4E+1	1.4E+1	1.4E+1	.	03:45
03:50	.	4.6E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.2E+1	2.2E+1	2.2E+1	.	03:50
03:55	.	5.5E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.2E+1	3.2E+1	3.2E+1	.	03:55
04:00	.	6.4E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	4.3E+1	4.3E+1	4.3E+1	.	04:00
04:05	.	7.2E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	5.7E+1	5.7E+1	5.7E+1	.	04:05
04:10	.	8.0E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	7.2E+1	7.2E+1	7.2E+1	.	04:10
04:15	.	8.7E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	8.8E+1	8.8E+1	8.8E+1	.	04:15
04:20	.	9.5E+2@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.0E+2	1.0E+2	1.0E+2	.	04:20
04:25	.	1.0E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.2E+2	1.2E+2	1.2E+2	.	04:25
04:30	.	1.0E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.4E+2	1.4E+2	1.4E+2	.	04:30
04:35	.	1.1E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.6E+2	1.6E+2	1.6E+2	.	04:35
04:40	.	1.2E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	1.8E+2	1.8E+2	1.8E+2	.	04:40
04:45	.	1.2E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.1E+2	2.1E+2	2.1E+2	.	04:45
04:50	.	1.3E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.3E+2	2.3E+2	2.3E+2	.	04:50
04:55	.	1.3E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.5E+2	2.5E+2	2.5E+2	.	04:55
05:00	.	1.4E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.7E+2	2.7E+2	2.7E+2	.	05:00
05:05	.	1.4E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.9E+2	2.9E+2	2.9E+2	.	05:05
05:10	.	1.4E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.1E+2	3.1E+2	3.1E+2	.	05:10
05:15	.	1.5E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.3E+2	3.3E+2	3.3E+2	.	05:15
05:20	.	1.5E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.4E+2	3.4E+2	3.4E+2	.	05:20
05:25	.	1.6E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.5E+2	3.5E+2	3.5E+2	.	05:25
05:30	.	1.6E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.6E+2	3.6E+2	3.6E+2	.	05:30
05:35	.	1.6E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.7E+2	3.7E+2	3.7E+2	.	05:35
05:40	.	1.7E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.8E+2	3.8E+2	3.8E+2	.	05:40
05:45	.	1.7E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.8E+2	3.8E+2	3.8E+2	.	05:45
05:50	.	1.7E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.8E+2	3.8E+2	3.8E+2	.	05:50
05:55	.	1.7E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.8E+2	3.8E+2	3.8E+2	.	05:55
06:00	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.8E+2	3.8E+2	3.8E+2	.	06:00
06:05	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.7E+2	3.7E+2	3.7E+2	.	06:05
06:10	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.7E+2	3.7E+2	3.7E+2	.	06:10
06:15	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.6E+2	3.6E+2	3.6E+2	.	06:15
06:20	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.5E+2	3.5E+2	3.5E+2	.	06:20
06:25	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.5E+2	3.5E+2	3.5E+2	.	06:25
06:30	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.4E+2	3.4E+2	3.4E+2	.	06:30

Time (Min)	1-421 MS Line1	1-422 MS Line2	1-423 MS Line3	1-424 MS Line4	1-120 SG BloDn	1-121 SG BloDn	1-124 SG BloDn	2-421 MS Line1	2-422 MS Line2	2-423 MS Line3	2-424 MS Line4	2-120 SG BloDn	2-121 SG BloDn	2-124 SG BloDn	This col unused	08-01-1993 16:28:45
	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	2.9E-04 to 2.9E+04 uCi/cc	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	3.1E-04 to 3.1E+04 uCi/cc	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	1.0E+01 to 1.0E+07 cpm	0.0E+00 to 0.0E+00 UNUSED	MIN to MAX Units
06:35	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.3E+2	3.3E+2	3.3E+2	.	06:35
06:40	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.2E+2	3.2E+2	3.2E+2	.	06:40
06:45	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.2E+2	3.2E+2	3.2E+2	.	06:45
06:50	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.1E+2	3.1E+2	3.1E+2	.	06:50
06:55	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	3.0E+2	3.0E+2	3.0E+2	.	06:55
07:00	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.9E+2	2.9E+2	2.9E+2	.	07:00
07:05	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.8E+2	2.8E+2	2.8E+2	.	07:05
07:10	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.8E+2	2.8E+2	2.8E+2	.	07:10
07:15	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.7E+2	2.7E+2	2.7E+2	.	07:15
07:20	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.6E+2	2.6E+2	2.6E+2	.	07:20
07:25	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.5E+2	2.5E+2	2.5E+2	.	07:25
07:30	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.5E+2	2.5E+2	2.5E+2	.	07:30
07:35	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.4E+2	2.4E+2	2.4E+2	.	07:35
07:40	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.3E+2	2.3E+2	2.3E+2	.	07:40
07:45	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.3E+2	2.3E+2	2.3E+2	.	07:45
07:50	.	1.9E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.2E+2	2.2E+2	2.2E+2	.	07:50
07:55	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.1E+2	2.1E+2	2.1E+2	.	07:55
08:00	.	1.8E+3@	.	.	OffHigh	OffHigh	OffHigh	3.1E-4	3.1E-4	3.1E-4	3.1E-4	2.1E+2	2.1E+2	2.1E+2	.	08:00

Environs Data

REP Exercise Offsite Radiological Monitoring Data

Attached are data sheets for every fifteen-minute period during the exercise in which detectable amounts of radiation or radioactivity are present. For each time period, there are four types of information provided:

Centerline Monitoring Data

This form gives the GM readings at one-meter above ground (open and closed window) and the I-131 concentrations directly on the centerline of the plume at selected distances.

TVA Monitoring Point Data

This form gives the GM reading at one-meter above the ground (open and closed window) and the I-131 concentrations at each of the pre-defined TVA monitoring points which is impacted.

Total Body Dose Rate Isodose Charts (1, 10, and 50 miles)

These charts show the magnitude of the closed windows dose rate at each of the impacted receptors in the plume. The centerline is shown graphically, and a letter (coded to the magnitude) is placed at each impacted receptor.

I-131 Isoconcentration Charts (1, 10, and 50 miles)

These charts show the magnitude of the I-131 cconcentration at each of the impacted receptors in the plume. The centerline is shown graphically, and a letter (coded to the magnitude) is placed at each impacted receptor.

For all the data forms and charts, there may be some values given as 'less than' or 'greater than' some value. these indicate either that the reading at that location is background, or that the instrument reading is offscale.

Conversion factors

The types of data provided in this package are limited in order to conserve time and paper. For this reason, the following conversion factors are provided to give the controller some help in calculating other readings which the team may make during the exercise.

To Convert From	To...	Multiply By	According to type of Fuel Damage	
			Cladding	Melted Fuel
GM at 1 m closed window (mr/hr)	GM tube at 1 m open window (mr/hr)		3	3
GM at 1 m closed window (mr/hr)	Ion Chanber at 1 m closed window (mr/hr)		1	1
GM at 1 m closed window (mr/hr)	Ion Chanber at 1 m open window (mr/hr)		1.5	1.5
GM at 1 m closed window (mr/hr)	GM tube near ground closed window (mr/hr)		3	3
I-131 Concentration (uCi/cc)	Particulate Concentration (uCi/cc)		2	9
5 minute air samples				
I-131 Concentration (uCi/cc)	I-131 Air Sample Count (cpm)		7.0E+10	7.0E+10
I-131 Concentration (uCi/cc)	Particulate sample Count (cpm)		9.0E+10	4.0E+11
I-131 Concentration (uCi/cc)	Iodine Cartridge Scan with GM tube (mr/hr)		5.0E+4	5.0E+4
I-131 Concentration (uCi/cc)	Particulate Filter Scan with GM tube (mr/hr)		6.7E+5	3.0E+6
15 minute air samples				
I-131 Concentration (uCi/cc)	I-131 Air Sample Count (cpm)		2.0E+11	2.0E+11
I-131 Concentration (uCi/cc)	Particulate sample Count (cpm)		2.8E+11	1.2E+12
I-131 Concentration (uCi/cc)	Iodine Cartridge Scan with GM tube (mr/hr)		2.0E+5	2.0E+5
I-131 Concentration (uCi/cc)	Particulate Filter Scan with GM tube (mr/hr)		1.8E+6	8.0E+6

Watts Bar 1993 Annual Graded Exercise

Time	Stack Release				Ground Release			Fuel Damage as a fraction of 1.00		
	NGas	Iodine131	Particulate	Velocity	NGas	Iodine131	Particulate	NGas	I131	Partic
00:00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
00:55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:35	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:45	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
01:55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
02:00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E+04	3.66E+00	1.18E+03	0.000	0.000	0.000
02:05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E+04	3.89E+00	1.27E+03	0.000	0.000	0.000
02:10	8.23E+01	3.64E-03	1.28E+00	6.07E+00	9.00E+04	4.11E+00	1.36E+03	0.000	0.000	0.000
02:15	9.24E+01	4.08E-03	1.45E+00	6.07E+00	9.46E+04	4.33E+00	1.44E+03	0.000	0.000	0.000
02:20	1.03E+02	4.52E-03	1.61E+00	6.07E+00	9.90E+04	4.54E+00	1.52E+03	0.000	0.000	0.000
02:25	1.13E+02	4.96E-03	1.78E+00	6.07E+00	1.03E+05	4.75E+00	1.59E+03	0.000	0.000	0.000
02:30	1.23E+02	5.39E-03	1.94E+00	6.07E+00	1.08E+05	4.95E+00	1.66E+03	0.000	0.000	0.000
02:35	1.33E+02	5.82E-03	2.10E+00	6.07E+00	1.12E+05	5.15E+00	1.73E+03	0.000	0.000	0.000
02:40	1.43E+02	6.25E-03	2.26E+00	6.07E+00	1.16E+05	5.35E+00	1.79E+03	0.000	0.000	0.000
02:45	1.54E+02	6.66E-03	2.41E+00	6.07E+00	1.20E+05	5.54E+00	1.84E+03	0.000	0.000	0.000
02:50	1.64E+02	7.07E-03	2.55E+00	6.07E+00	1.24E+05	5.72E+00	1.89E+03	0.000	0.000	0.000
02:55	1.74E+02	7.48E-03	2.69E+00	6.07E+00	1.27E+05	5.91E+00	1.94E+03	0.000	0.000	0.000
03:00	1.85E+02	7.88E-03	2.83E+00	6.07E+00	1.31E+05	6.08E+00	1.98E+03	0.000	0.000	0.000
03:05	1.95E+02	8.28E-03	2.95E+00	6.07E+00	1.34E+05	6.26E+00	2.02E+03	0.000	0.000	0.000
03:10	2.05E+02	8.67E-03	3.08E+00	6.07E+00	1.38E+05	6.43E+00	2.06E+03	0.000	0.000	0.000
03:15	2.15E+02	9.05E-03	3.19E+00	6.07E+00	1.41E+05	6.59E+00	2.09E+03	0.000	0.000	0.000
03:20	2.25E+02	9.43E-03	3.30E+00	6.07E+00	6.92E+05	2.14E+02	2.15E+03	0.100	0.050	0.050
03:25	7.60E+02	2.04E-01	5.64E+00	6.07E+00	2.03E+06	1.03E+03	4.59E+03	0.150	0.150	0.150
03:30	2.09E+03	9.82E-01	1.32E+01	6.07E+00	4.65E+06	2.84E+03	1.23E+04	0.250	0.250	0.250
03:35	4.72E+03	2.74E+00	3.07E+01	6.07E+00	9.00E+06	6.01E+03	2.96E+04	0.350	0.350	0.350
03:40	9.19E+03	5.86E+00	6.42E+01	6.07E+00	1.40E+07	9.88E+03	6.18E+04	0.150	0.200	0.200
03:45	1.45E+04	9.84E+00	1.14E+02	6.07E+00	1.87E+07	1.37E+04	1.08E+05	0.000	0.000	0.000
03:50	1.99E+04	1.39E+01	1.79E+02	6.07E+00	2.33E+07	1.74E+04	1.65E+05	0.000	0.000	0.000
03:55	2.54E+04	1.82E+01	2.55E+02	6.07E+00	2.76E+07	2.10E+04	2.29E+05	0.000	0.000	0.000

Watts Bar 1993 Annual Graded Exercise

Time	Stack Release				Ground Release			Fuel Damage		
	NGas	Iodine131	Particulate	Velocity	NGas	Iodine131	Particulate	as a fraction of 1.00		
								NGas	I131	Partic
04:00	3.10E+04	2.25E+01	3.41E+02	6.07E+00	3.18E+07	2.45E+04	2.98E+05	0.000	0.000	0.000
04:05	3.67E+04	2.69E+01	4.34E+02	6.07E+00	3.59E+07	2.80E+04	3.70E+05	0.000	0.000	0.000
04:10	4.25E+04	3.14E+01	5.33E+02	6.07E+00	3.98E+07	3.13E+04	4.43E+05	0.000	0.000	0.000
04:15	4.83E+04	3.59E+01	6.37E+02	6.07E+00	4.35E+07	3.46E+04	5.17E+05	0.000	0.000	0.000
04:20	5.41E+04	4.05E+01	7.44E+02	6.07E+00	4.71E+07	3.77E+04	5.89E+05	0.000	0.000	0.000
04:25	5.99E+04	4.51E+01	8.53E+02	6.07E+00	5.04E+07	4.08E+04	6.60E+05	0.000	0.000	0.000
04:30	6.57E+04	4.97E+01	9.62E+02	6.07E+00	5.36E+07	4.37E+04	7.28E+05	0.000	0.000	0.000
04:35	7.15E+04	5.43E+01	1.07E+03	6.07E+00	5.67E+07	4.66E+04	7.93E+05	0.000	0.000	0.000
04:40	7.72E+04	5.89E+01	1.18E+03	6.07E+00	5.96E+07	4.94E+04	8.55E+05	0.000	0.000	0.000
04:45	8.30E+04	6.35E+01	1.28E+03	6.07E+00	6.23E+07	5.20E+04	9.14E+05	0.000	0.000	0.000
04:50	8.87E+04	6.80E+01	1.39E+03	6.07E+00	6.06E+07	5.10E+04	9.04E+05	0.000	0.000	0.000
04:55	9.02E+04	6.91E+01	1.42E+03	6.07E+00	5.85E+07	4.95E+04	8.84E+05	0.000	0.000	0.000
05:00	9.11E+04	6.96E+01	1.45E+03	6.07E+00	5.59E+07	4.76E+04	8.54E+05	0.000	0.000	0.000
05:05	9.13E+04	6.95E+01	1.46E+03	6.07E+00	5.28E+07	4.53E+04	8.15E+05	0.000	0.000	0.000
05:10	9.09E+04	6.89E+01	1.45E+03	6.07E+00	4.95E+07	4.27E+04	7.67E+05	0.000	0.000	0.000
05:15	8.98E+04	6.77E+01	1.44E+03	6.07E+00	4.57E+07	3.97E+04	7.12E+05	0.000	0.000	0.000
05:20	8.82E+04	6.60E+01	1.41E+03	6.07E+00	4.17E+07	3.64E+04	6.51E+05	0.000	0.000	0.000
05:25	8.59E+04	6.37E+01	1.37E+03	6.07E+00	3.73E+07	3.28E+04	5.83E+05	0.000	0.000	0.000
05:30	8.30E+04	6.08E+01	1.32E+03	6.07E+00	3.26E+07	2.89E+04	5.11E+05	0.000	0.000	0.000
05:35	7.96E+04	5.75E+01	1.25E+03	6.07E+00	2.77E+07	2.47E+04	4.33E+05	0.000	0.000	0.000
05:40	7.56E+04	5.36E+01	1.18E+03	6.07E+00	2.26E+07	2.02E+04	3.52E+05	0.000	0.000	0.000
05:45	7.10E+04	4.92E+01	1.10E+03	6.07E+00	1.72E+07	1.55E+04	2.67E+05	0.000	0.000	0.000
05:50	6.58E+04	4.43E+01	1.01E+03	6.07E+00	1.17E+07	1.05E+04	1.80E+05	0.000	0.000	0.000
05:55	6.02E+04	3.90E+01	9.13E+02	6.07E+00	5.91E+06	5.37E+03	9.09E+04	0.000	0.000	0.000
06:00	5.40E+04	3.32E+01	8.08E+02	6.07E+00	3.43E+00	3.13E-03	5.24E-02	0.000	0.000	0.000
06:05	4.72E+04	2.69E+01	6.97E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:10	4.59E+04	2.54E+01	6.68E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:15	4.45E+04	2.39E+01	6.39E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:20	4.32E+04	2.26E+01	6.11E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:25	4.20E+04	2.13E+01	5.85E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:30	4.07E+04	2.01E+01	5.59E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:35	3.96E+04	1.90E+01	5.34E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:40	3.84E+04	1.79E+01	5.11E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:45	3.73E+04	1.69E+01	4.88E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:50	3.62E+04	1.59E+01	4.66E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
06:55	3.51E+04	1.50E+01	4.46E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:00	3.41E+04	1.41E+01	4.26E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:05	3.31E+04	1.33E+01	4.07E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:10	3.22E+04	1.26E+01	3.89E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:15	3.12E+04	1.19E+01	3.71E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:20	3.03E+04	1.12E+01	3.55E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:25	2.94E+04	1.05E+01	3.39E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:30	2.86E+04	9.93E+00	3.23E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:35	2.77E+04	9.36E+00	3.09E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:40	2.69E+04	8.83E+00	2.95E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:45	2.62E+04	8.32E+00	2.82E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:50	2.54E+04	7.84E+00	2.69E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
07:55	2.47E+04	7.39E+00	2.57E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000
08:00	2.39E+04	6.97E+00	2.45E+02	6.07E+00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000	0.000

HISTORICAL METEOROLOGICAL DATA FOR WATTS BAR GRADED EXERCISE
OCT. 6, 1993

REVISED MET DATA
AS OF 8/27/93

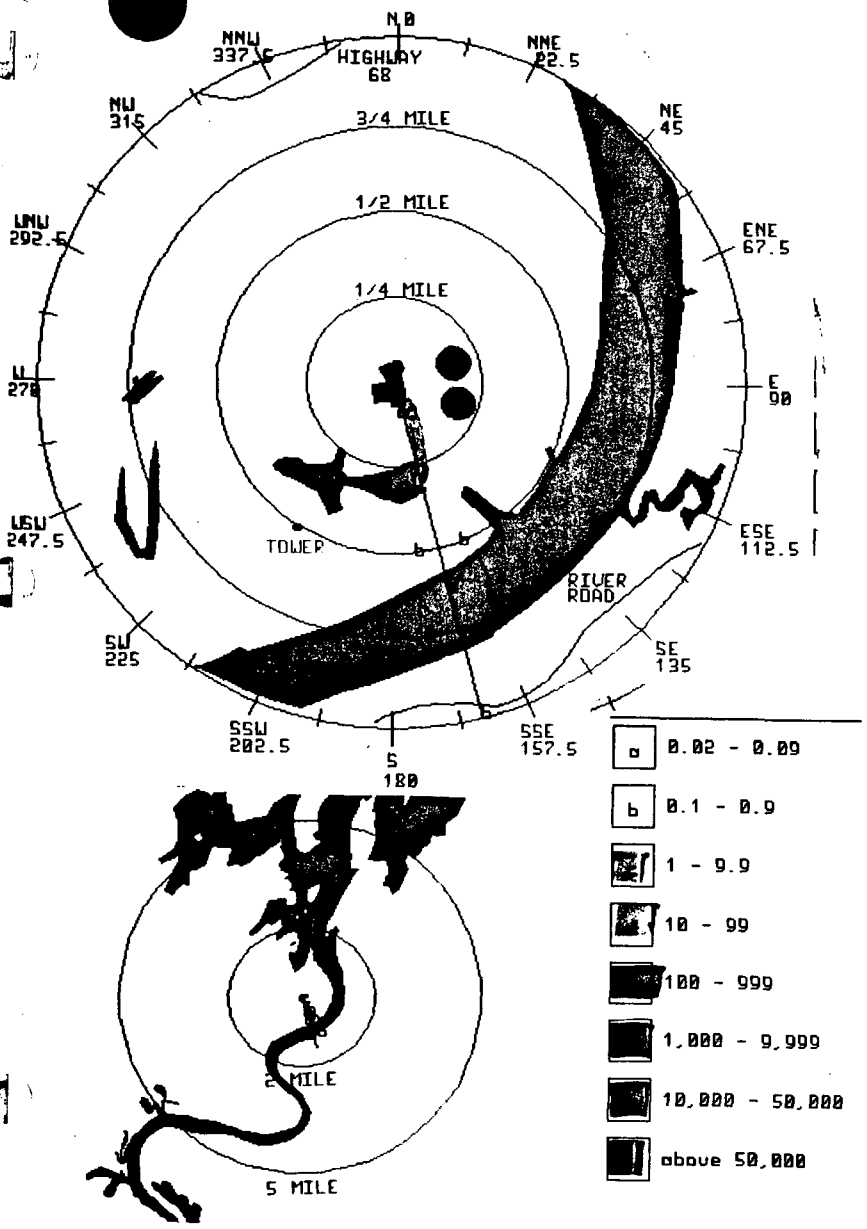
[illegible]e that data times are in Eastern time for this plant. U, I, and L denote upper, intermediate, and lower measurement levels on the tower, respectively. Prec. denotes precipitation.

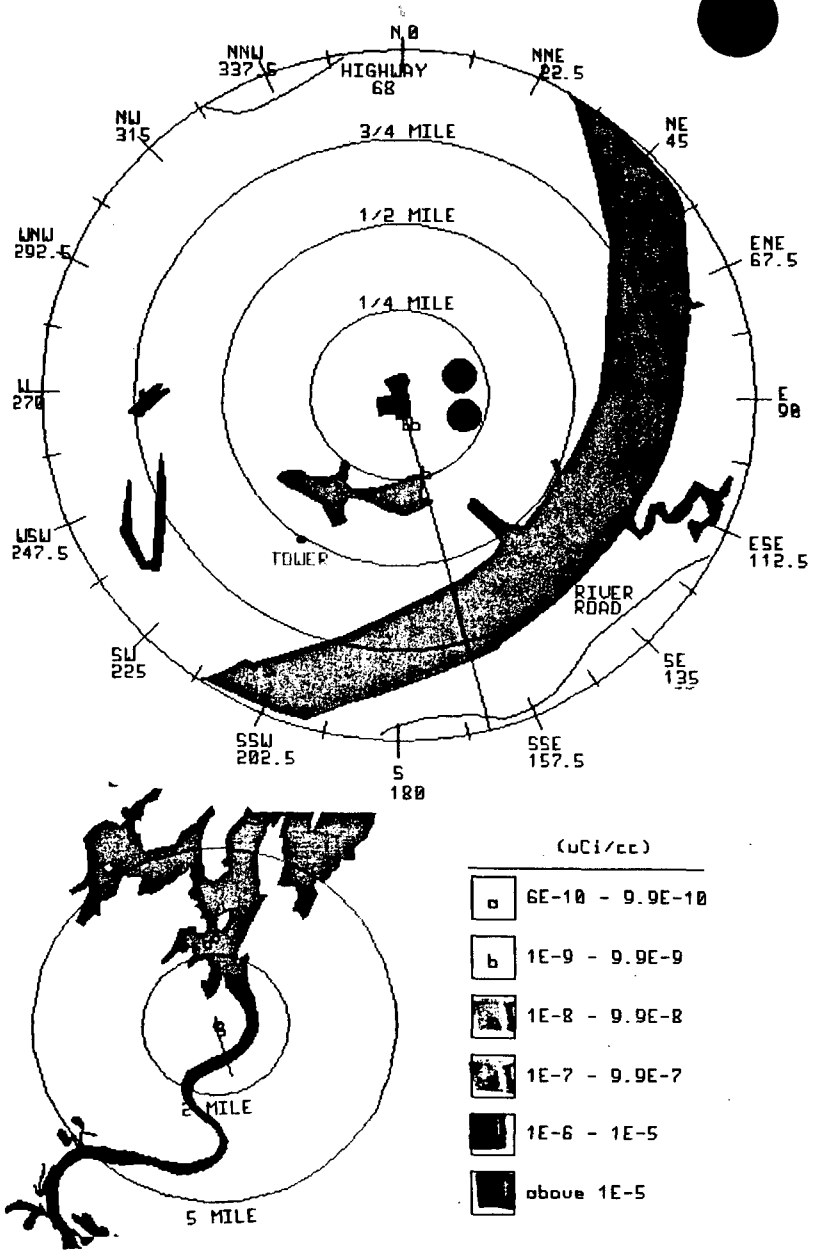
Time	Wind Direction (degrees)			Wind Speed (m/s)			Stability Class			Prec. (mm/h)
	U	I	L	U	I	L	U-L	U-I	I-L	
0600-0615	28	27	22	5.6	4.6	3.3	E	E	E	-
0615-0630	33	35	33	5.0	3.6	2.5	E	E	E	-
0630-0645	26	29	29	4.6	3.2	2.3	E	E	E	-
0645-0700	35	36	33	4.6	3.1	2.2	E	E	D	-
0600-0700	31	31	29	5.0	3.6	2.5	E	E	E	0.3
0700-0715	30	30	24	4.6	3.5	2.5	D	E	D	-
0715-0730	18	22	12	4.0	2.8	1.8	D	E	D	-
0730-0745	8	6	2	5.7	4.2	3.1	D	D	D	-
0745-0800	59	66	71	4.2	3.0	1.8	D	E	D	-
0700-0800	27	30	23	4.6	3.4	2.3	D	E	D	1.0
[illegible]0815	60	76	124	3.3	1.8	0.7	E	E	E	-
[illegible]-0830	39	33	347	2.5	1.6	1.1	E	E	F	-
0830-0845	39	39	0	3.6	2.4	1.3	E	E	E	-
0845-0900	39	42	61	3.5	2.2	1.3	E	E	E	-
0800-0900	44	45	29	3.2	2.0	1.2	E	E	E	0.3
0900-0915	35	33	20	5.1	3.9	2.6	E	E	E	-
0915-0930	43	44	40	4.6	3.6	2.7	D	D	D	-
0930-0945	42	38	37	3.5	2.9	2.1	D	D	D	-
0945-1000	36	30	7	3.9	3.4	2.5	D	D	D	-
0900-1000	39	36	26	4.3	3.4	2.5	D	D	D	0.0
1000-1015	42	36	27	4.5	3.3	2.4	D	D	D	-
1015-1030	45	45	45	3.8	2.9	2.2	D	D	D	-
1030-1045	50	39	17	2.4	1.9	1.6	D	D	D	-
1045-1100	41	36	28	2.0	1.8	1.4	D	D	D	-
1000-1100	44	39	30	3.1	2.4	1.9	D	D	D	0.0
1100-1115	350	345	347	3.3	2.8	2.1	D	D	D	-
1115-1130	352	343	345	2.8	2.3	1.7	D	D	D	-
1130-1145	350	347	348	2.5	2.0	1.5	D	D	D	-

Time	Wind Direction (degrees) U	I	L	Wind Speed (m/s) U	I	L	Stability Class U-L	U-I	I-L	Prec. (mm/h)
1145-1200	350	349	313	1.8	1.3	0.9	D	D	D	-
1100-1200	26	21	6	2.6	2.1	1.5	D	D	D	0.9
1200-1215	344	331	346	0.9	0.9	1.0	E	E	E	-
1215-1230	331	347	329	0.2	0.4	0.5	D	E	D	-
1230-1245	313	277	257	0.4	0.5	0.5	D	D	D	-
1245-1300	325	309	273	1.2	1.0	0.7	D	D	D	-
1200-1300	340	293	257	0.7	0.7	0.7	D	D	D	0.0
1300-1315	329	298	277	1.1	1.1	1.0	D	D	D	-
1315-1330	342	326	298	1.4	1.2	1.1	D	D	D	-
1330-1345	0	346	338	1.4	1.4	1.4	D	D	D	-
1345-1400	241	262	229	0.8	1.0	1.1	D	D	D	-
1300-1400	347	326	297	1.2	1.2	1.1	D	D	D	0.0
1400-1415	247	222	212	0.6	0.7	0.6	D	D	D	-
1415-1430	200	200	200	0.6	0.8	0.7	D	D	D	-
1430-1445	167	251	215	0.2	0.4	0.5	D	D	D	-
1445-1500	173	170	186	0.6	0.4	0.8	D	D	D	-
1400-1500	199	203	200	0.5	0.6	0.7	D	D	D	0.0
1500-1515	230	223	224	1.3	1.2	0.9	D	D	D	-
1515-1530	266	257	243	1.7	1.5	1.0	D	D	D	-
1530-1545	246	234	219	1.6	1.7	1.0	D	D	D	-
1545-1600	260	259	246	1.3	1.2	0.8	D	D	D	-
1500-1600	252	244	233	1.5	1.4	0.9	D	D	D	0.0
1600-1615	246	231	207	1.7	1.6	1.3	D	D	D	-
1615-1630	234	225	224	2.7	1.8	1.4	D	D	D	-
1630-1645	227	216	201	3.0	2.2	1.7	D	D	D	-
1645-1700	221	218	211	3.1	2.4	1.3	D	D	D	-
1600-1700	230	222	210	2.8	2.1	1.5	D	D	D	0.0
1700-1715	207	203	190	3.8	3.6	2.4	D	D	D	-
1715-1730	195	193	192	4.4	4.1	2.8	D	D	D	-
1730-1745	197	193	186	5.1	4.7	3.6	D	D	D	-
1745-1800	202	198	210	5.0	4.7	3.4	D	D	D	-
1700-1800	201	197	193	4.7	4.2	3.4	D	D	D	0.0
1800-1815	220	234	220	4.8	4.3	3.7	D	D	D	-
1815-1830	211	186	184	5.3	4.9	3.6	D	D	D	-

Time	Wind Direction (degrees) U	I	L	Wind Speed (m/s) U	I	L	Stability Class U-L	U-I	I-L	Prec. (mm/h)
1830-1845	189	187	208	5.2	5.0	4.1	D	D	D	-
1845-1900	196	199	204	4.9	4.6	3.5	D	D	D	-
1800-1900	202	196	201	5.1	4.8	3.6	D	D	D	0.0
1900-1915	219	206	211	6.4	5.6	3.9	D	D	D	-
1915-1930	234	228	214	5.9	5.4	3.8	D	D	D	-
1930-1945	265	256	204	5.7	5.2	3.3	D	D	D	-
1945-2000	336	308	247	5.2	4.8	3.0	D	D	D	-
1900-2000	249	233	214	5.7	5.3	3.3	D	D	D	0.0
2000-2015	271	248	219	4.4	4.0	3.0	D	D	D	-
2015-2030	260	243	208	4.9	4.6	3.2	D	D	D	-
2030-2045	233	224	243	5.3	5.1	3.6	D	D	D	-
2045-2100	255	236	240	5.2	5.0	3.3	D	E	D	-
2000-2100	254	241	226	5.0	4.8	3.3	D	D	D	0.0
2100-2115	218	223	216	5.5	5.2	3.2	D	D	D	-
2115-2130	315	276	211	5.7	5.1	3.3	D	E	D	-
2130-2145	246	243	205	5.2	4.6	3.0	D	E	D	-
2145-2200	236	233	201	4.7	4.1	2.3	D	D	D	-
[illegible]00-2200	241	236	204	5.3	4.9	3.0	D	D	D	0.0
2200-2215	235	232	202	4.5	4.0	2.1	D	D	D	-
2215-2230	241	234	210	4.2	3.9	2.1	D	D	D	-
2230-2245	236	225	205	4.0	3.8	2.0	D	D	D	-
2245-2300	240	231	200	3.5	3.0	1.2	E	E	E	-
2200-2300	240	227	217	4.0	3.7	2.0	D	D	D	0.0
2300-2315	18	29	309	1.6	0.8	0.2	E	D	E	-
2315-2330	28	41	63	1.7	1.4	0.8	E	D	E	-
2330-2345	26	33	303	1.2	0.6	0.4	E	E	E	-
2345-2400	31	32	230	1.0	0.1	0.2	E	E	E	-
2300-2400	26	36	29	1.4	0.8	0.4	E	E	E	0.0
0000-0015	30	34	326	1.7	0.6	0.4	E	E	E	-
0015-0030	36	41	326	2.1	0.7	0.5	E	E	E	-
0030-0045	37	63	340	1.8	0.6	0.3	E	E	E	-
0045-0100	40	74	87	1.5	0.7	0.1	E	E	E	-
0000-0100	36	54	335	1.7	0.7	0.3	E	E	E	0.0

1101-1115


N 0
NNW 337.5
HIGHWAY 68
NNE 22.5
NW 315
NE 45
3/4 MILE
1/2 MILE
1/4 MILE
WNW 292.5
ENE 67.5
W 270
E 90
WSW 247.5
ESE 112.5
TOWER
RIVER ROAD
SW 225
SE 135
SSW 202.5
SSE 157.5
S 180
2 MILE
5 MILE
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N 0
NNW 337.5
HIGHWAY 68
NNE 22.5
NW 315
NE 45
3/4 MILE
1/2 MILE
1/4 MILE
WNW 292.5
ENE 67.5
W 270
E 90
WSW 247.5
ESE 112.5
TOWER
RIVER ROAD
SW 225
SE 135
SSW 202.5
SSE 157.5
S 180
2 MILE
5 MILE
(uCi/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

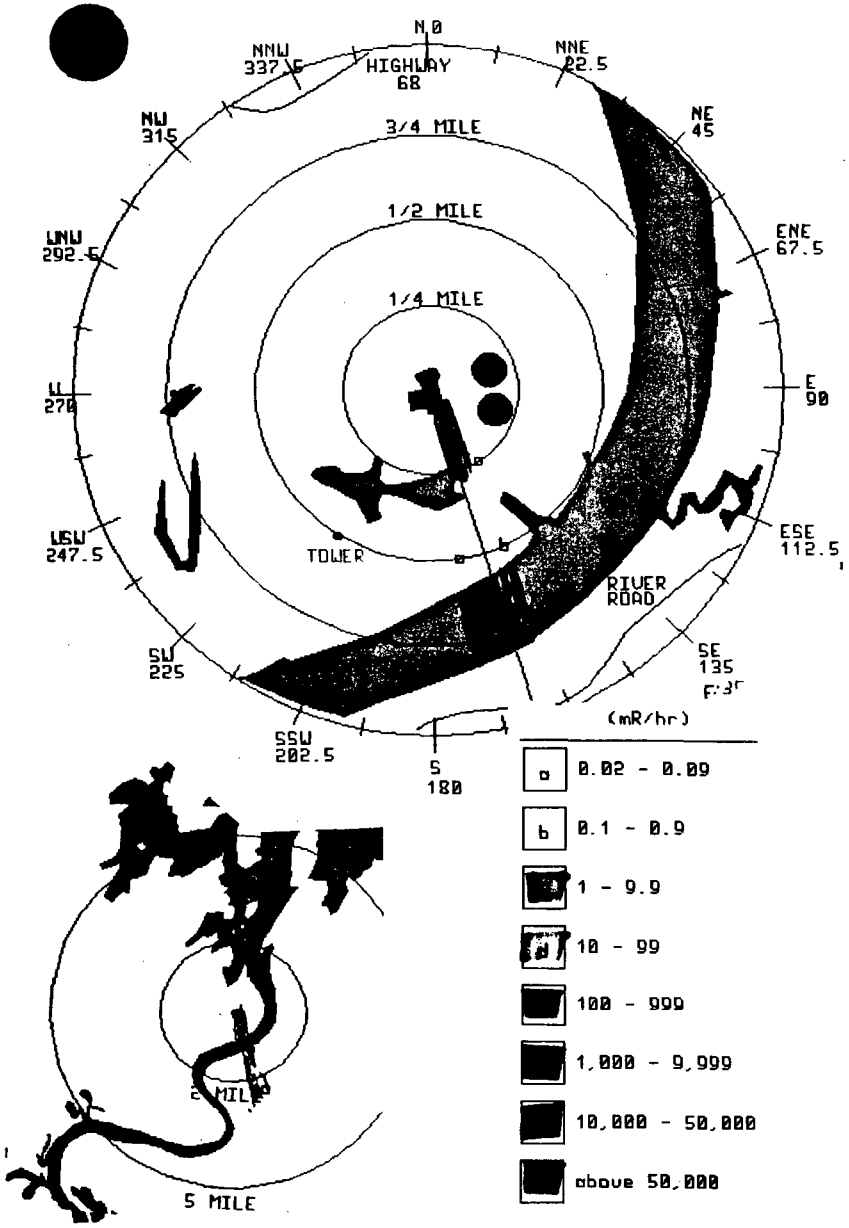
ENVIRONMENTAL MONITORING DATA

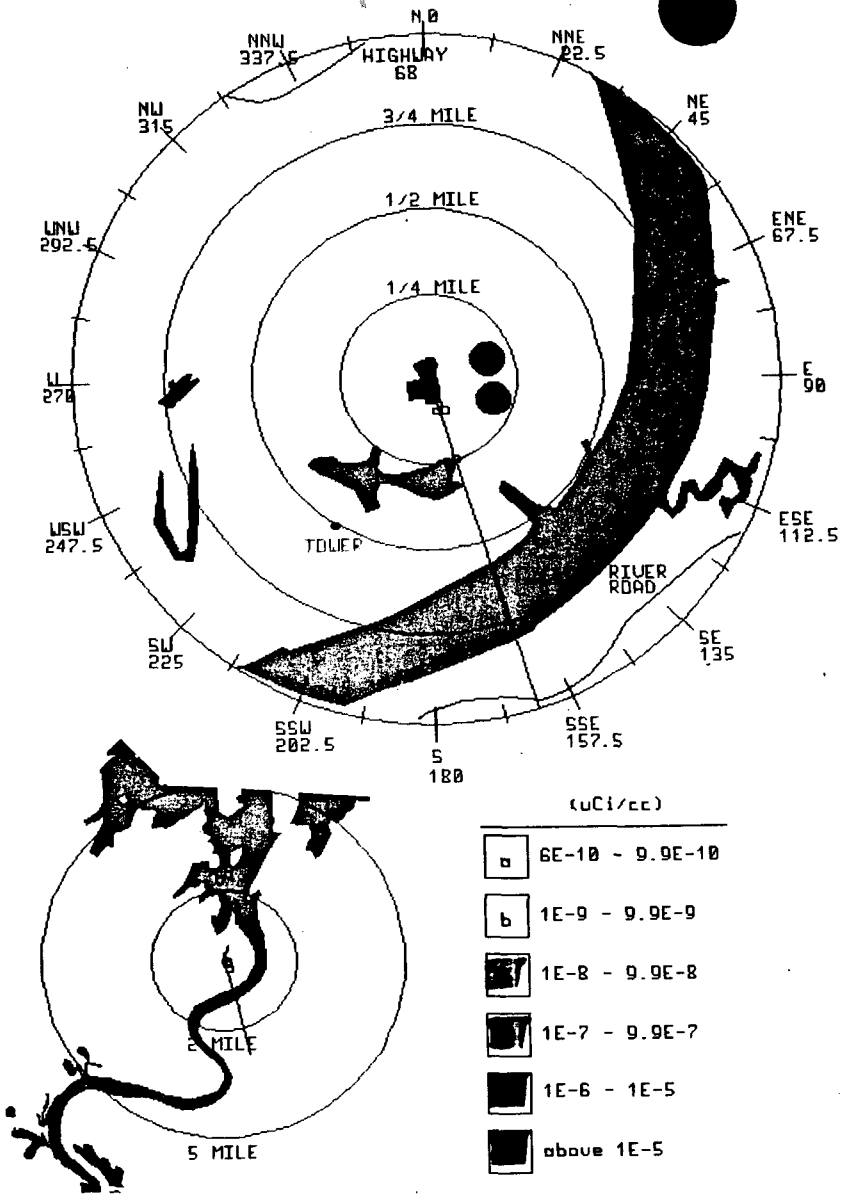
1116-1130

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	SSE/158	34.00	11.30	11.30	17	11	11	6.9E-09	8.5E-10	5.1E+02	1.1E+02
0.25	SSE/165	6.87	2.29	2.29	3	2	2	1.4E-09	<6E-10	1.0E+02	< 30
0.50	SSE/158	2.17	0.72	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
0.62	SSE/165	1.51	0.50	0.50	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
0.75	SSE/158	1.12	0.37	0.37	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.00	SSE/165	0.70	0.23	0.23	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.25	SSE/158	0.50	0.17	0.17	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.50	SSE/165	0.27	0.09	0.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.00	SSE/165	0.17	0.06	0.06	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.50	SSE/158	0.12	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		0.52	0.17	0.17	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1116-1130


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
RIVER ROAD
5 MILE
(mR/hr)
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
RIVER ROAD
5 MILE
(uCi/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

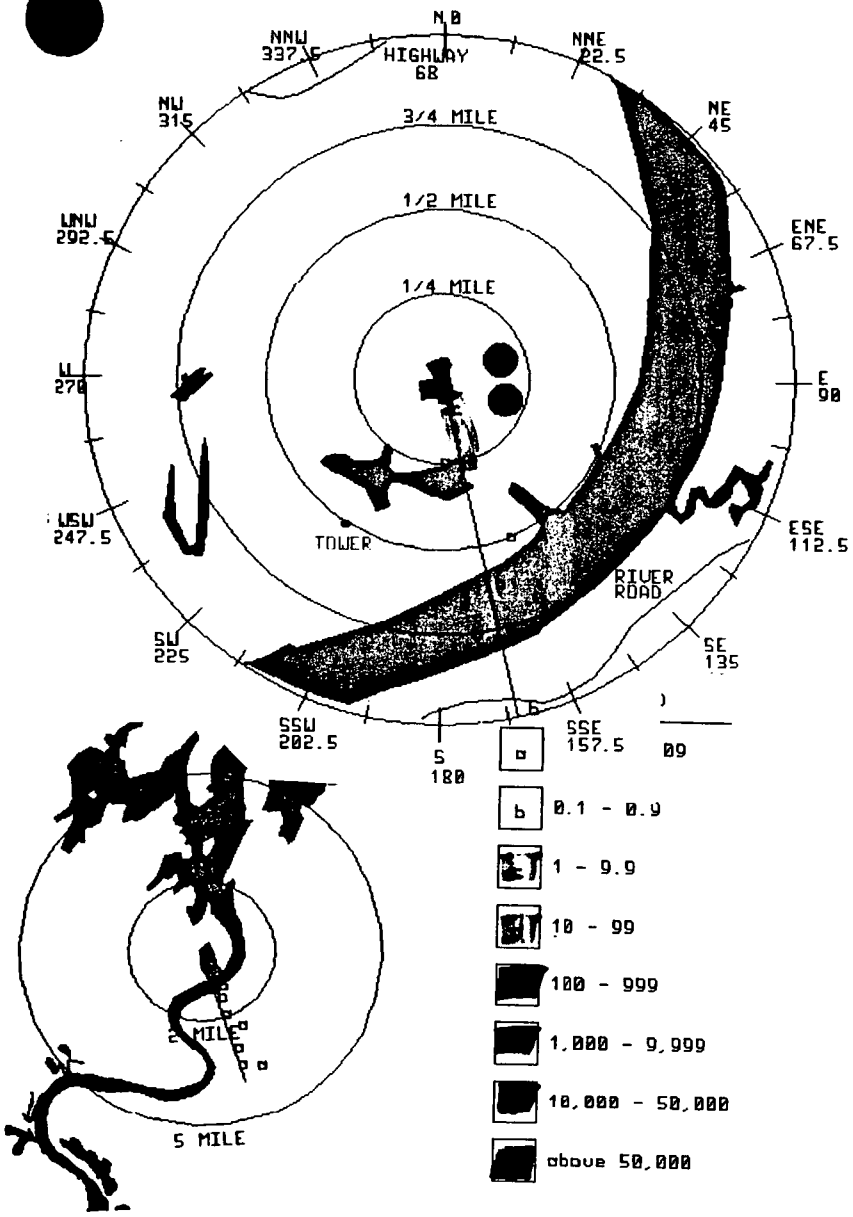
ENVIRONMENTAL MONITORING DATA

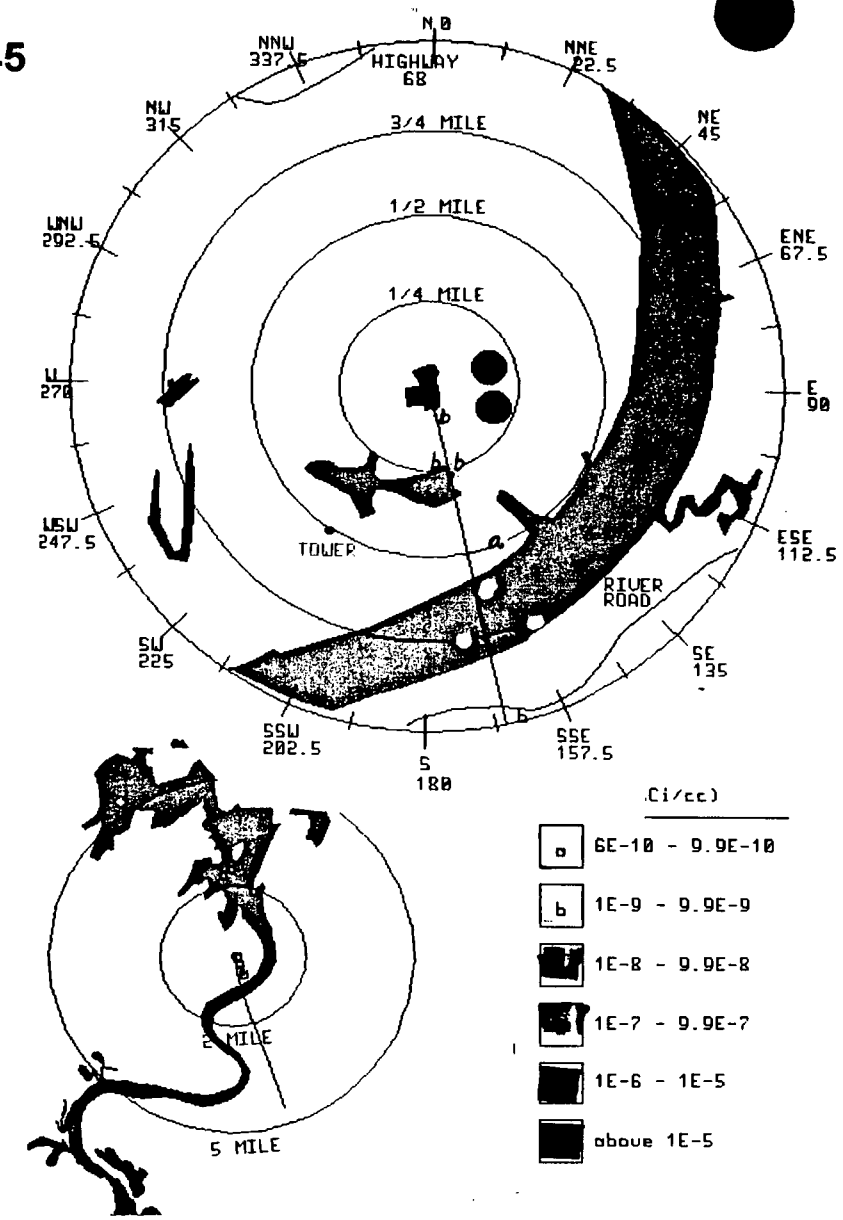
1131-1145

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	S /173	45.30	15.10	15.10	23	15	15	9.2E-09	1.1E-09	6.8E+02	1.5E+02
0.25	SSE/165	9.15	3.05	3.05	5	3	3	1.9E-09	<6E-10	1.4E+02	3.1E+01
0.50	S /173	2.89	0.96	0.96	<2	<2	<2	<6E-10	<6E-10	4.3E+01	< 30
0.62	SSE/165	2.01	0.67	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
0.75	S /173	1.49	0.50	0.50	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.00	SSE/165	0.93	0.31	0.31	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.25	S /173	0.48	0.16	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.50	SSE/165	0.37	0.12	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.00	SSE/165	0.22	0.07	0.07	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.50	SSE/158	0.13	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.00	SSE/165	0.09	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.50	SSE/165	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SSE/158	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		0.18	0.06	0.06	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-10		0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1131-1145


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
(Ci/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

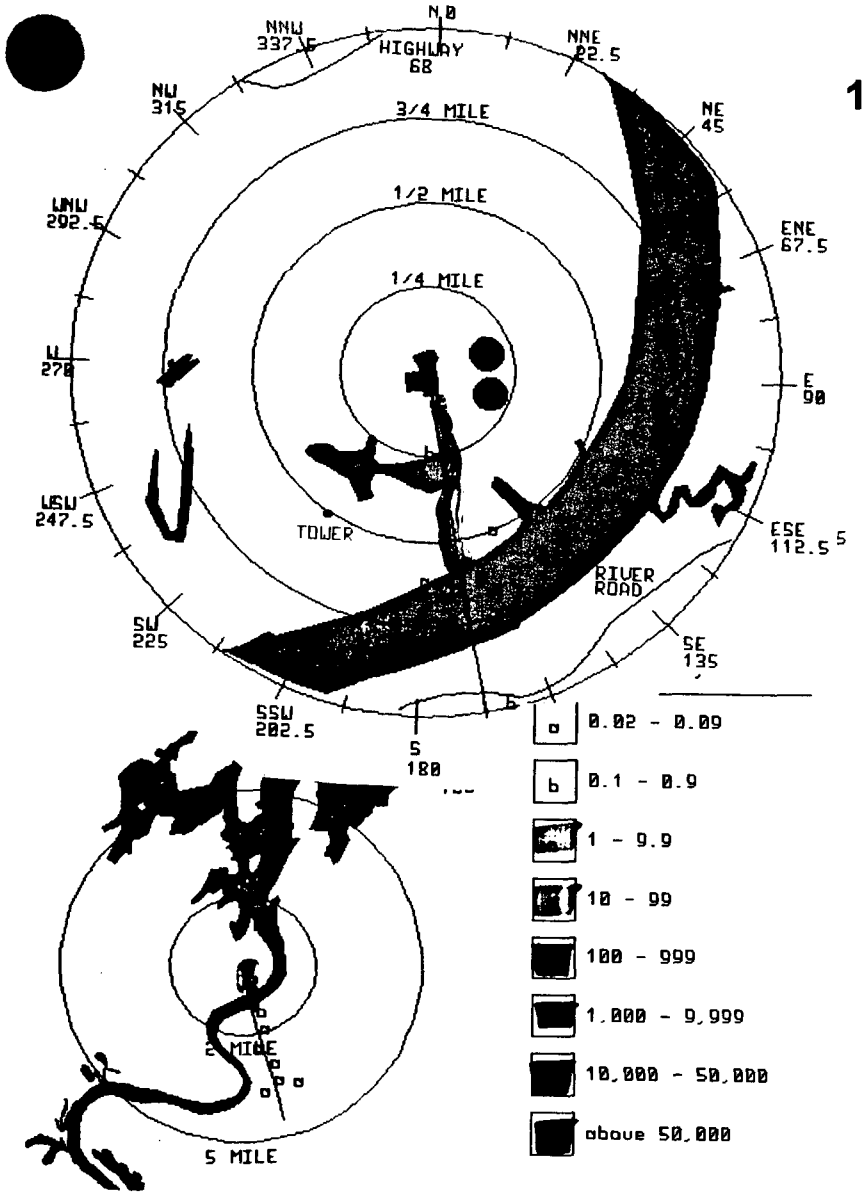
ENVIRONMENTAL MONITORING DATA

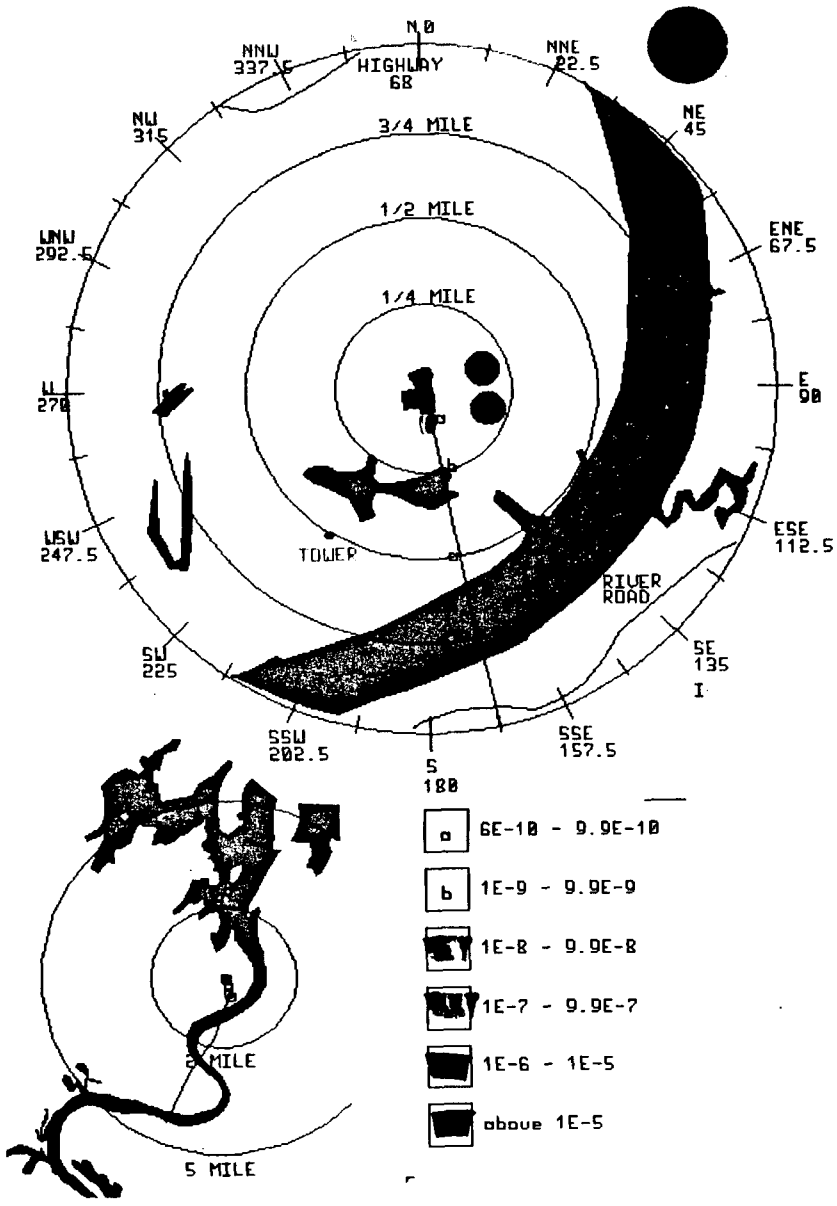
1146-1200

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	S /173	67.80	22.60	22.60	34	23	23	1.4E-08	1.7E-09	1.0E+03	2.3E+02
0.25	SSE/165	13.90	4.64	4.64	7	5	5	2.8E-09	<6E-10	2.1E+02	4.7E+01
0.50	S /173	4.38	1.46	1.46	2	<2	<2	8.9E-10	<6E-10	6.6E+01	< 30
0.62	SSE/165	3.07	1.02	1.02	2	<2	<2	6.2E-10	<6E-10	4.6E+01	< 30
0.75	S /173	1.38	0.46	0.46	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.00	SSE/165	0.87	0.29	0.29	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.25	S /173	0.61	0.20	0.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.50	SSE/165	0.45	0.15	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.00	SSE/165	0.23	0.08	0.08	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.50	S /173	0.16	0.05	0.05	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.00	SSE/165	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.50	SSE/165	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SSE/158	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.00	SSE/165	0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	S /173	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		0.14	0.05	0.05	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-10		0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1146-1200


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

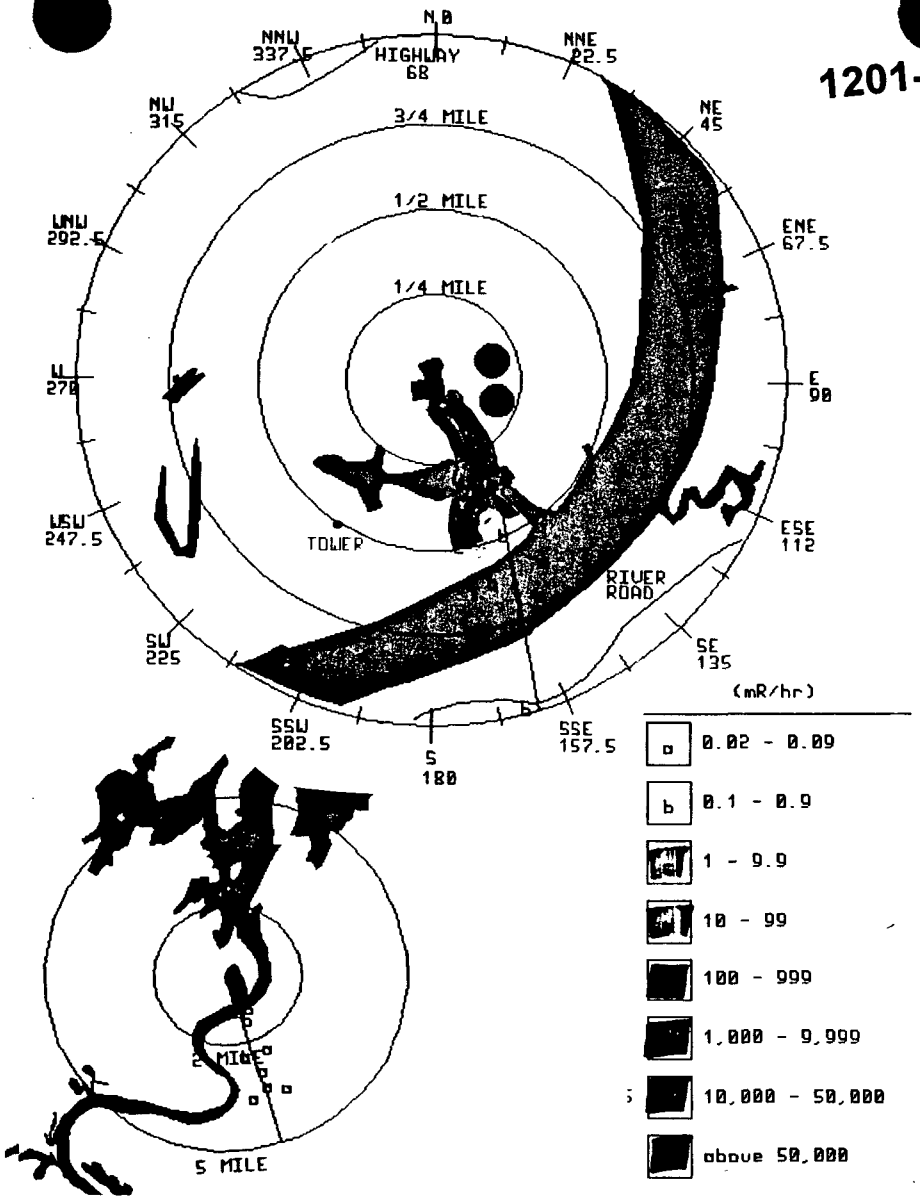
ENVIRONMENTAL MONITORING DATA

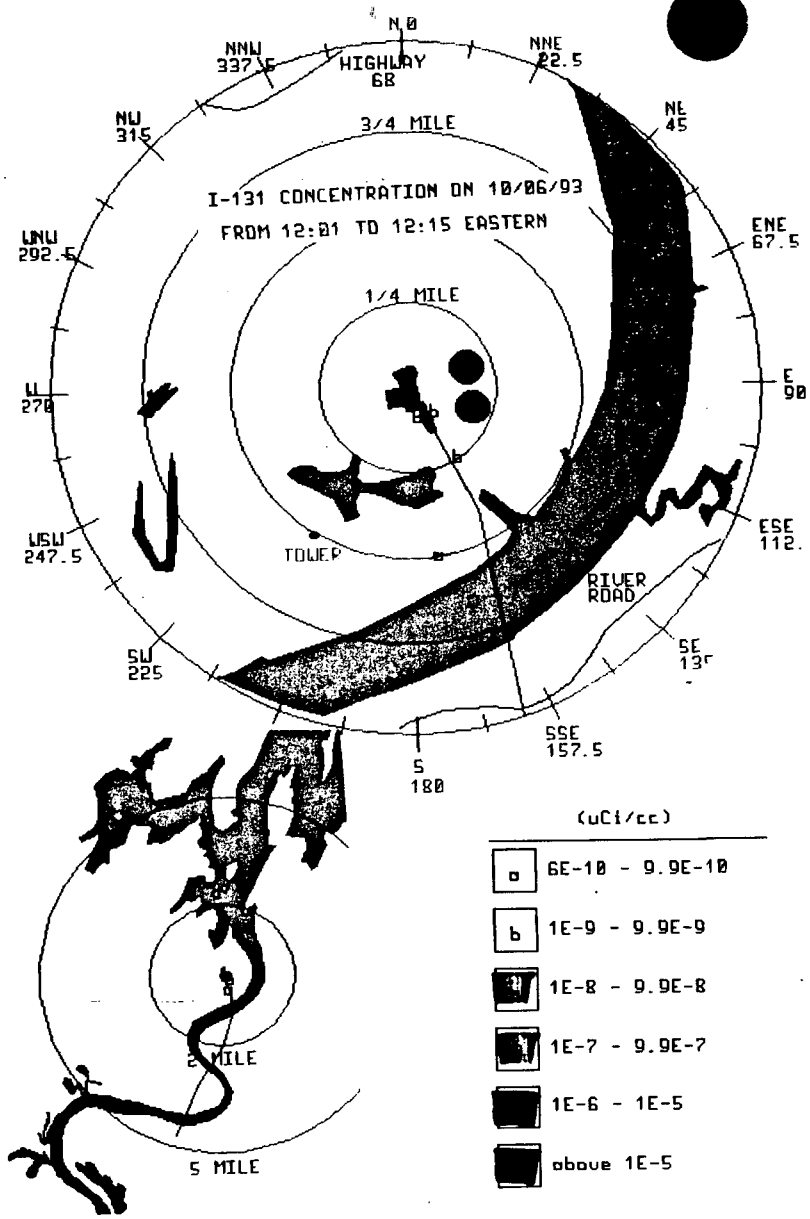
1201-1215

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	SSE/158	127.00	42.30	42.30	63	42	42	2.6E-08	3.2E-09	1.9E+03	4.3E+02
0.25	SSE/150	26.40	8.80	8.80	13	9	9	5.4E-09	6.7E-10	4.0E+02	8.9E+01
0.50	S /173	3.03	1.01	1.01	2	<2	<2	6.5E-10	<6E-10	4.8E+01	< 30
0.62	SSE/165	2.30	0.77	0.77	<2	<2	<2	<6E-10	<6E-10	3.7E+01	< 30
0.75	SSE/158	2.06	0.69	0.69	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.00	SSE/165	1.33	0.44	0.45	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.25	SSE/158	0.60	0.20	0.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
1.50	SSE/165	0.44	0.15	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.00	SSE/165	0.28	0.09	0.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
2.50	S /173	0.17	0.06	0.06	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.00	SSE/165	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.50	SSE/165	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SSE/158	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.00	SSE/165	0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	S /173	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		0.64	0.21	0.21	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-10		0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1201-1215


N 0
NNW 337.5
HIGHWAY 68
NNE 22.5
NW 315
NE 45
3/4 MILE
1/2 MILE
1/4 MILE
WNW 292.5
ENE 67.5
W 270
E 90
WSW 247.5
ESE 112
TOWER
RIVER ROAD
SW 225
SE 135
SSW 202.5
S 180
SSE 157.5
2 MILE
5 MILE
(mR/hr)
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N 0
NNW 337.5
HIGHWAY 68
NNE 22.5
NW 315
NE 45
3/4 MILE
I-131 CONCENTRATION ON 10/06/93
FROM 12:01 TO 12:15 EASTERN
1/4 MILE
WNW 292.5
ENE 67.5
W 270
E 90
WSW 247.5
ESE 112.
TOWER
RIVER ROAD
SW 225
SE 135
SSE 157.5
S 180
2 MILE
5 MILE
(uCi/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

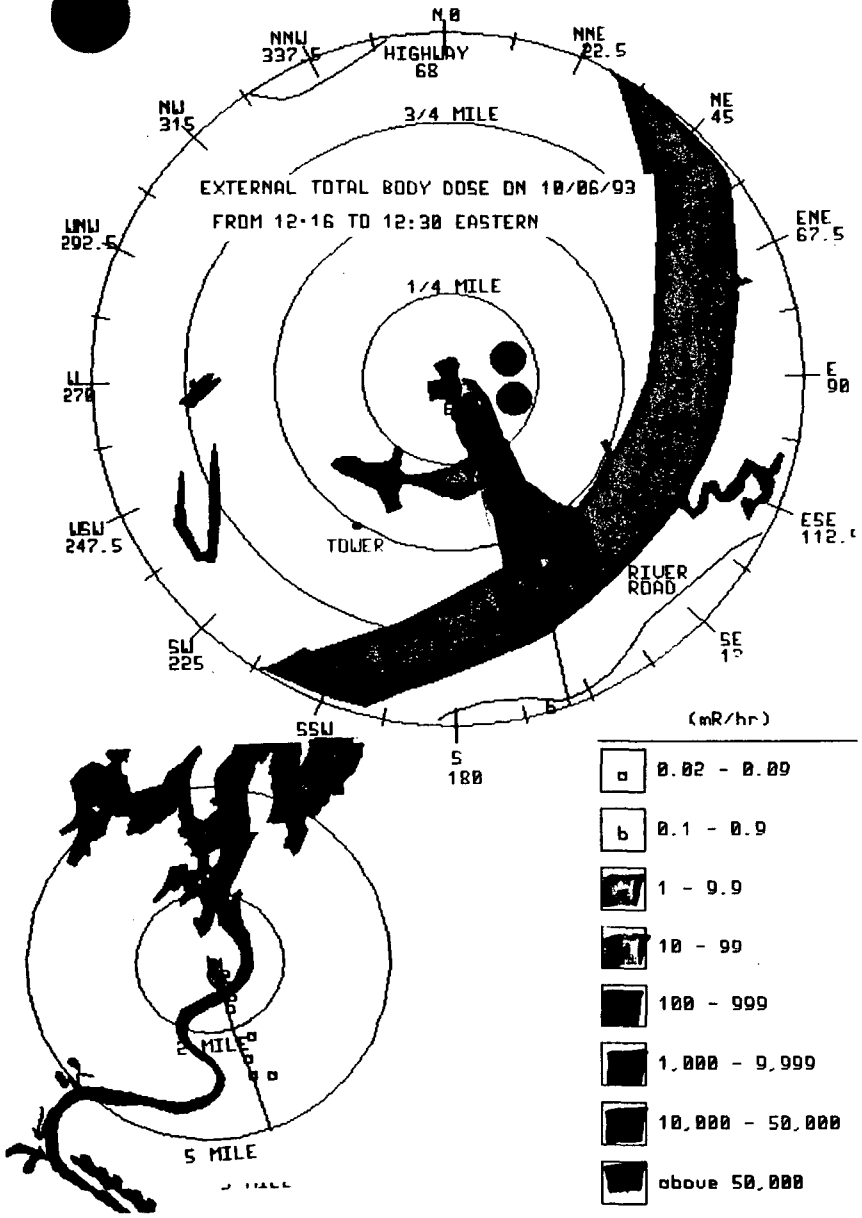
ENVIRONMENTAL MONITORING DATA

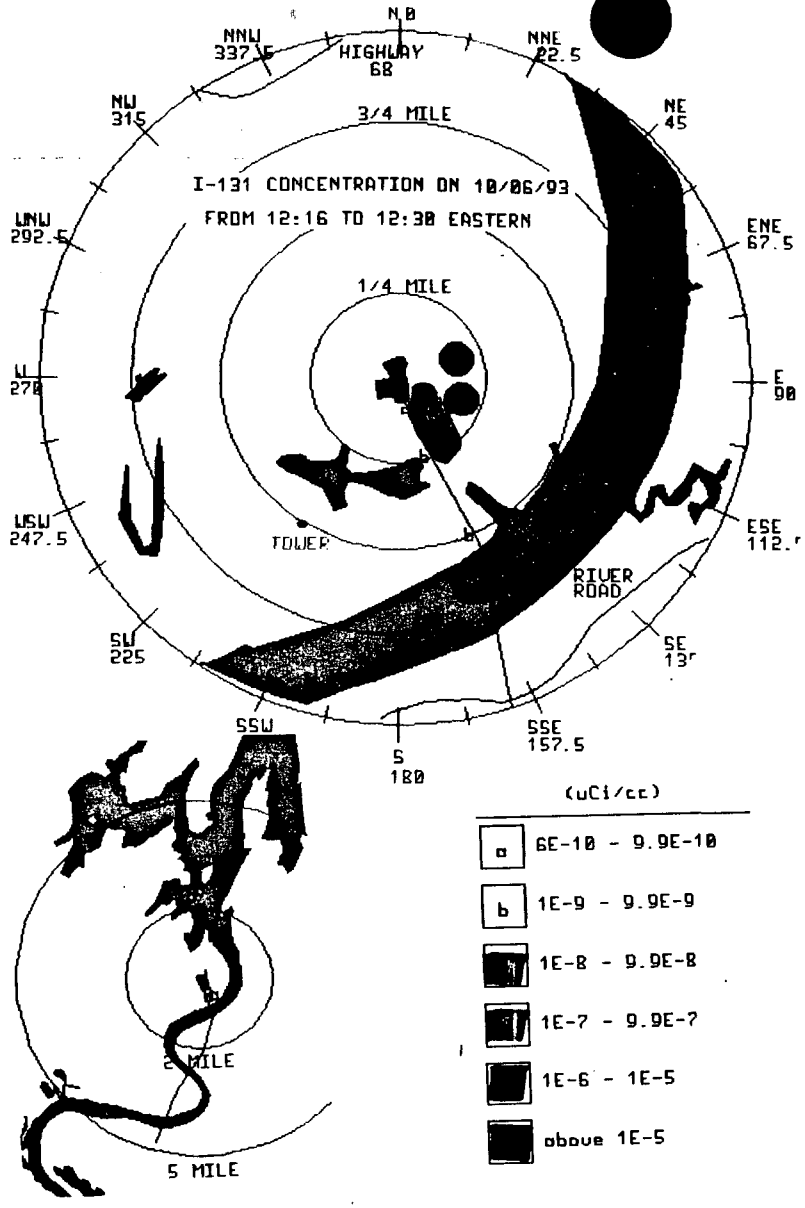
1216-1230

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	SSE/158	>2000.0	669.00	670.00	1.0E+03	669	670	8.8E-07	8.9E-06	6.6E+04	1.2E+06
0.25	SSE/150	199.00	66.30	66.40	99	66	66	8.9E-08	8.9E-07	6.6E+03	1.2E+05
0.50	SSE/158	13.90	4.64	4.64	7	5	5	5.2E-09	5.2E-08	3.9E+02	6.9E+03
0.62	SSE/150	3.45	1.15	1.15	2	<2	<2	7.7E-10	7.7E-09	5.7E+01	1.0E+03
0.75	SSE/158	2.40	0.80	0.80	<2	<2	<2	<6E-10	5.4E-09	4.0E+01	7.2E+02
1.00	SSE/165	1.44	0.48	0.48	<2	<2	<2	<6E-10	3.3E-09	< 35	4.4E+02
1.25	SSE/158	0.66	0.22	0.22	<2	<2	<2	<6E-10	1.5E-09	< 35	2.0E+02
1.50	SSE/165	0.47	0.16	0.16	<2	<2	<2	<6E-10	1.1E-09	< 35	1.5E+02
2.00	SSE/165	0.28	0.10	0.10	<2	<2	<2	<6E-10	6.8E-10	< 35	9.0E+01
2.50	SSE/158	0.17	0.06	0.06	<2	<2	<2	<6E-10	<6E-10	< 35	5.4E+01
3.00	SSE/165	0.12	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	3.8E+01
3.50	SSE/165	0.08	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SSE/158	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.00	SSE/165	0.06	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	SSE/158	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
5.00	SSE/165	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	3.1E-09	< 35	4.2E+02
LOC 1-1		1.37	0.46	0.46	<2	<2	<2	<6E-10	3.1E-09	< 35	4.2E+02
LOC 4-10		0.06	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1216-1230


EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 12:16 TO 12:30 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
(mR/hr)
a 0.02 - 0.09
b 0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


I-131 CONCENTRATION ON 10/06/93
FROM 12:16 TO 12:30 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
(uCi/cc)
a 6E-10 - 9.9E-10
b 1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

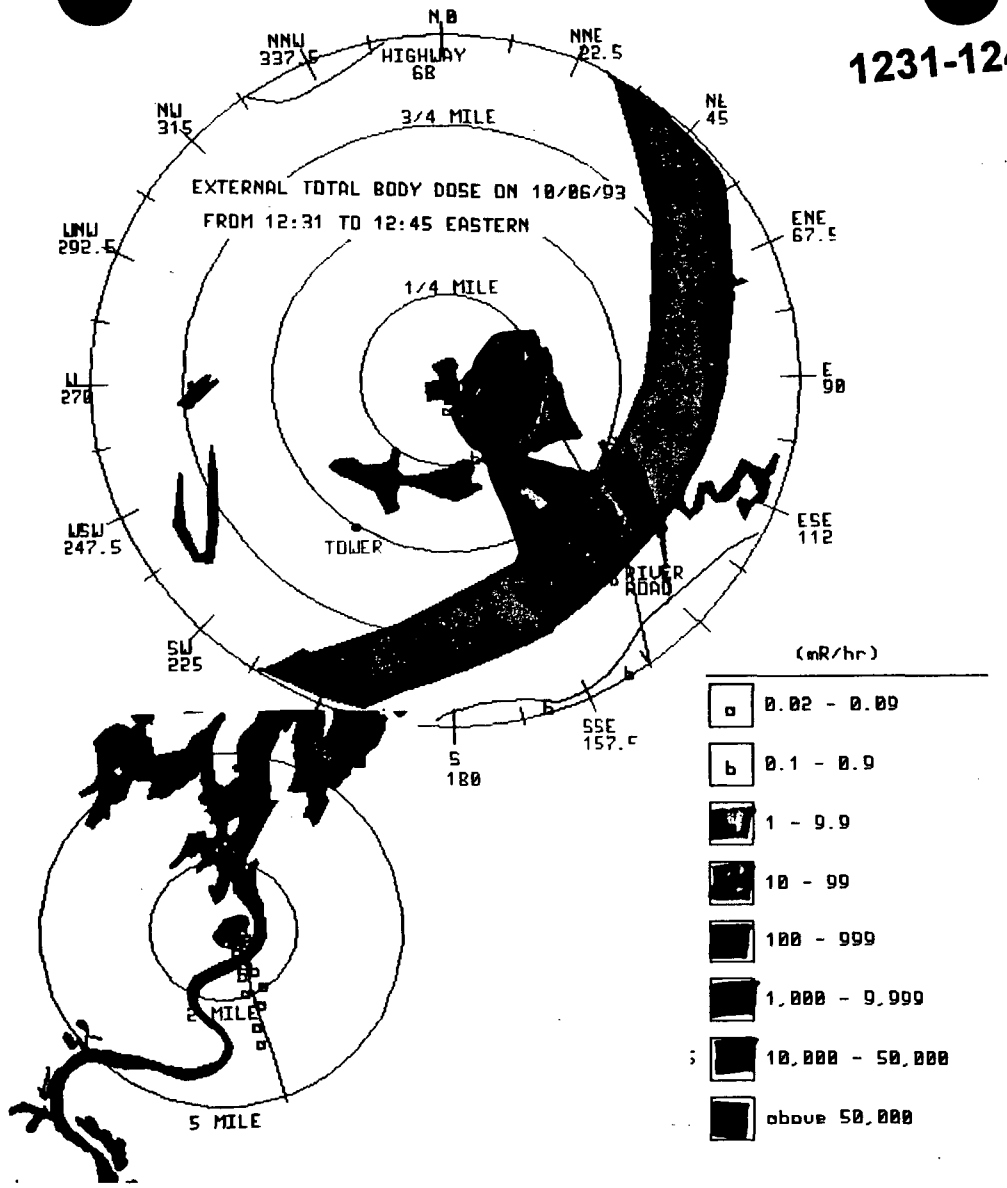
ENVIRONMENTAL MONITORING DATA

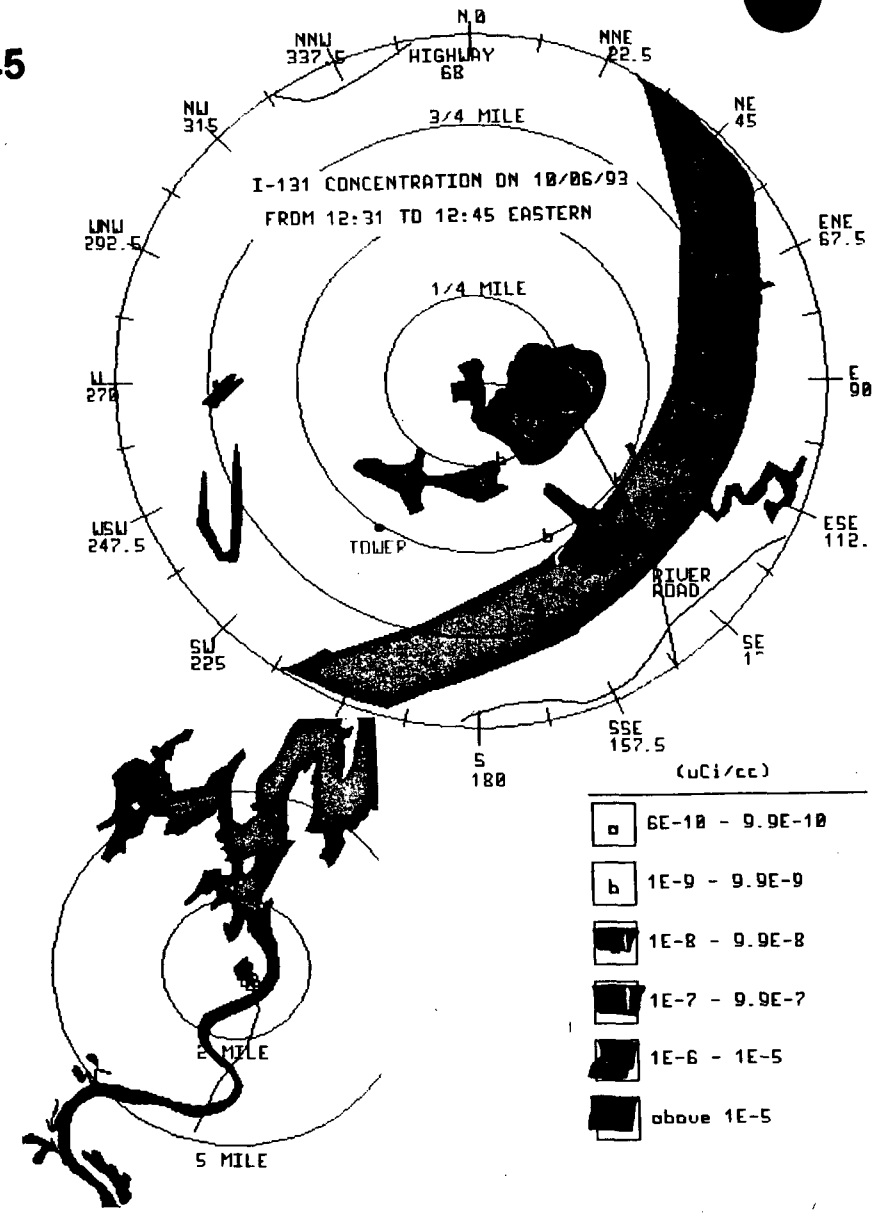
1231-1245

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	E /098	>2000.0	>2000.0	>2000.0	2.0E+04	1.3E+04	1.3E+04	3.7E-05	1.8E-04	2.8E+06	2.4E+07
0.25	E /090	>2000.0	>2000.0	>2000.0	4.2E+03	2.8E+03	2.8E+03	7.8E-06	3.9E-05	5.8E+05	5.1E+06
0.50	SE /128	19.40	6.46	6.47	10	6	6	9.2E-09	4.5E-08	6.8E+02	6.0E+03
0.62	SE /135	7.40	2.47	2.47	4	2	2	3.4E-09	1.7E-08	2.5E+02	2.2E+03
0.75	SE /143	0.92	0.31	0.31	<2	<2	<2	<6E-10	1.1E-09	< 35	1.4E+02
1.00	SSE/165	0.77	0.26	0.26	<2	<2	<2	<6E-10	9.0E-10	< 35	1.2E+02
1.25	SSE/158	0.56	0.19	0.19	<2	<2	<2	<6E-10	6.8E-10	< 35	9.0E+01
1.50	SSE/150	0.34	0.11	0.11	<2	<2	<2	<6E-10	<6E-10	< 35	5.3E+01
2.00	SSE/150	0.23	0.08	0.08	<2	<2	<2	<6E-10	<6E-10	< 35	3.7E+01
2.50	SSE/158	0.13	0.05	0.05	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.00	SSE/165	0.10	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.50	SSE/165	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SSE/158	0.06	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.00	SSE/165	0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	SSE/158	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
5.00	SSE/165	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	6.3E-10	< 35	8.4E+01
LOC 1-1		0.55	0.18	0.18	<2	<2	<2	<6E-10	6.3E-10	< 35	8.4E+01
LOC 4-10		0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1231-1245


EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 12:31 TO 12:45 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112
SSE 157.5
S 180
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
(mR/hr)
a 0.02 - 0.09
b 0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


I-131 CONCENTRATION ON 10/06/93
FROM 12:31 TO 12:45 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.
SSE 157.5
S 180
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
RIVER ROAD
2 MILE
5 MILE
(uCi/cc)
a 6E-10 - 9.9E-10
b 1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

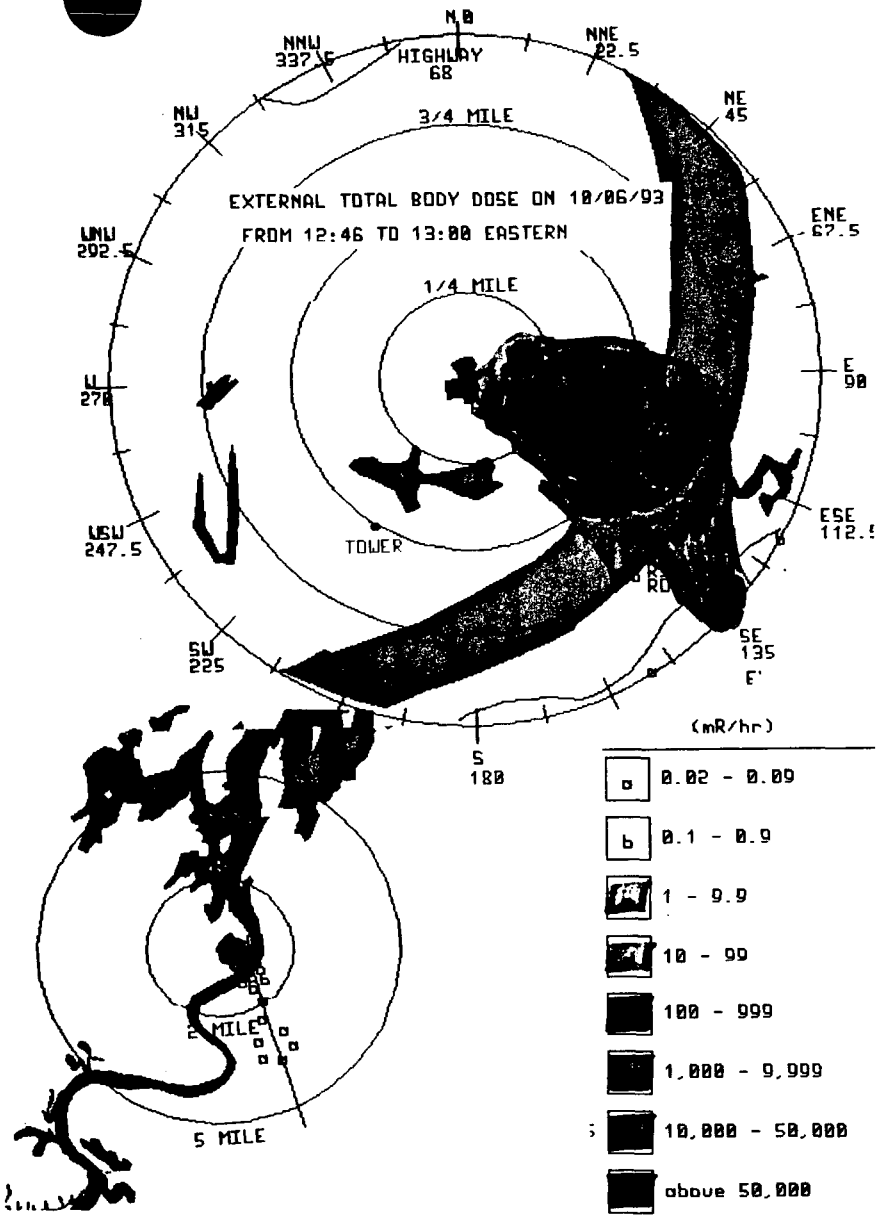
ENVIRONMENTAL MONITORING DATA

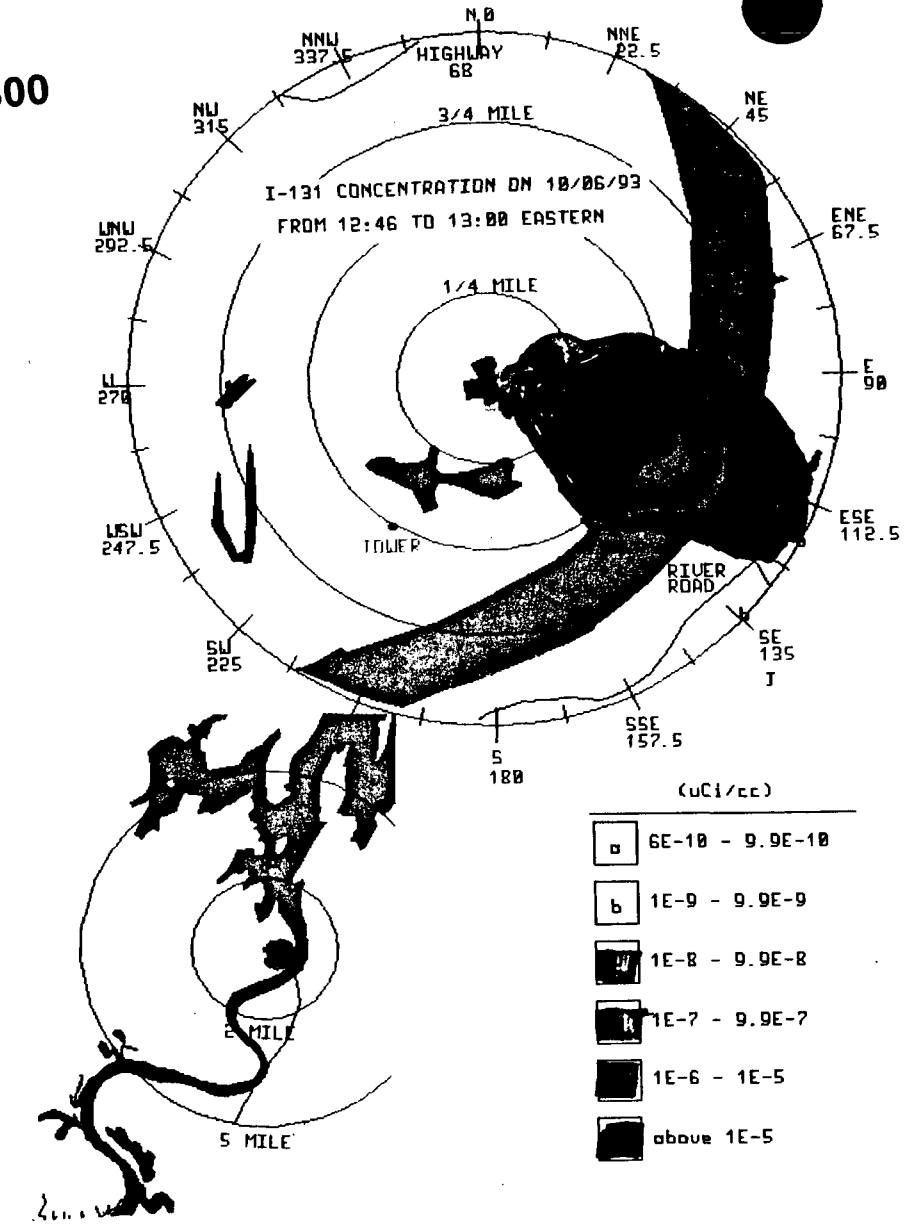
1246-1300

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	SE /128	>2000.0	>2000.0	>2000.0	3.5E+04	2.3E+04	2.4E+04	7.4E-05	7.0E-04	5.5E+06	9.3E+07
0.25	SE /135	>2000.0	>2000.0	>2000.0	7.3E+03	4.9E+03	4.9E+03	1.5E-05	1.4E-04	1.1E+06	1.9E+07
0.50	SE /128	>2000.0	1.6E+03	1.6E+03	2.4E+03	1.6E+03	1.6E+03	5.0E-06	4.7E-05	3.7E+05	6.3E+06
0.62	ESE/105	1.2E+03	394.00	396.00	592	394	396	1.3E-06	1.2E-05	9.7E+04	1.6E+06
0.75	E /098	805.00	268.00	269.00	402	268	269	8.1E-07	7.7E-06	6.0E+04	1.0E+06
1.00	SE /135	13.80	4.59	4.60	7	5	5	7.2E-09	6.9E-08	5.4E+02	9.1E+03
1.25	SE /143	0.51	0.17	0.17	<2	<2	<2	<6E-10	1.2E-09	< 35	1.6E+02
1.50	SE /135	0.46	0.15	0.15	<2	<2	<2	<6E-10	1.1E-09	< 35	1.4E+02
2.00	SSE/150	0.17	0.06	0.06	<2	<2	<2	<6E-10	<6E-10	< 35	5.6E+01
2.50	SSE/158	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	3.8E+01
3.00	SSE/150	0.09	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	3.1E+01
3.50	SSE/150	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SSE/158	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.00	SSE/150	0.06	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	SSE/158	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
5.00	SSE/158	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-10		0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1246-1300


EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 12:46 TO 13:00 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
S 180
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
5 MILE
(mR/hr)
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


I-131 CONCENTRATION ON 10/06/93
FROM 12:46 TO 13:00 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
RIVER ROAD
5 MILE
(uCi/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

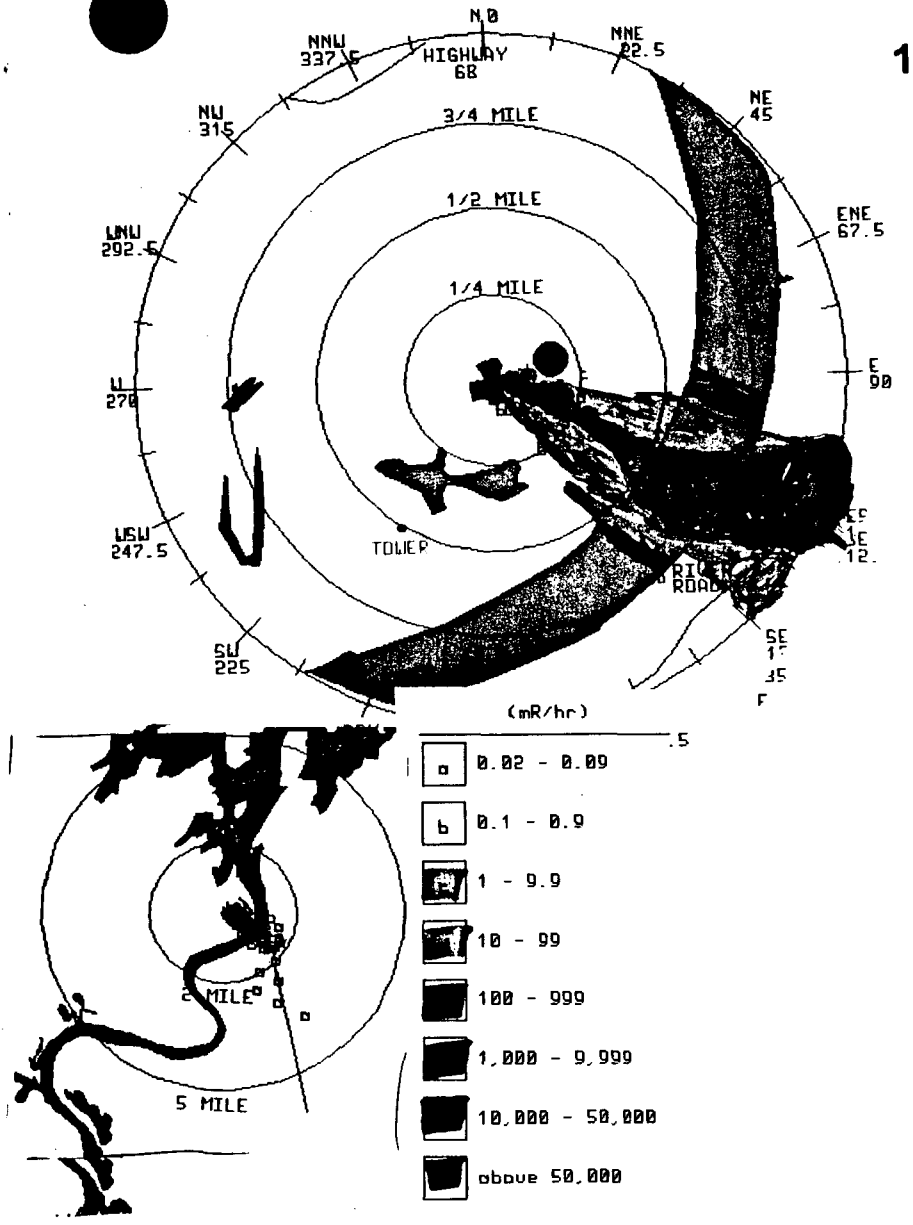
ENVIRONMENTAL MONITORING DATA

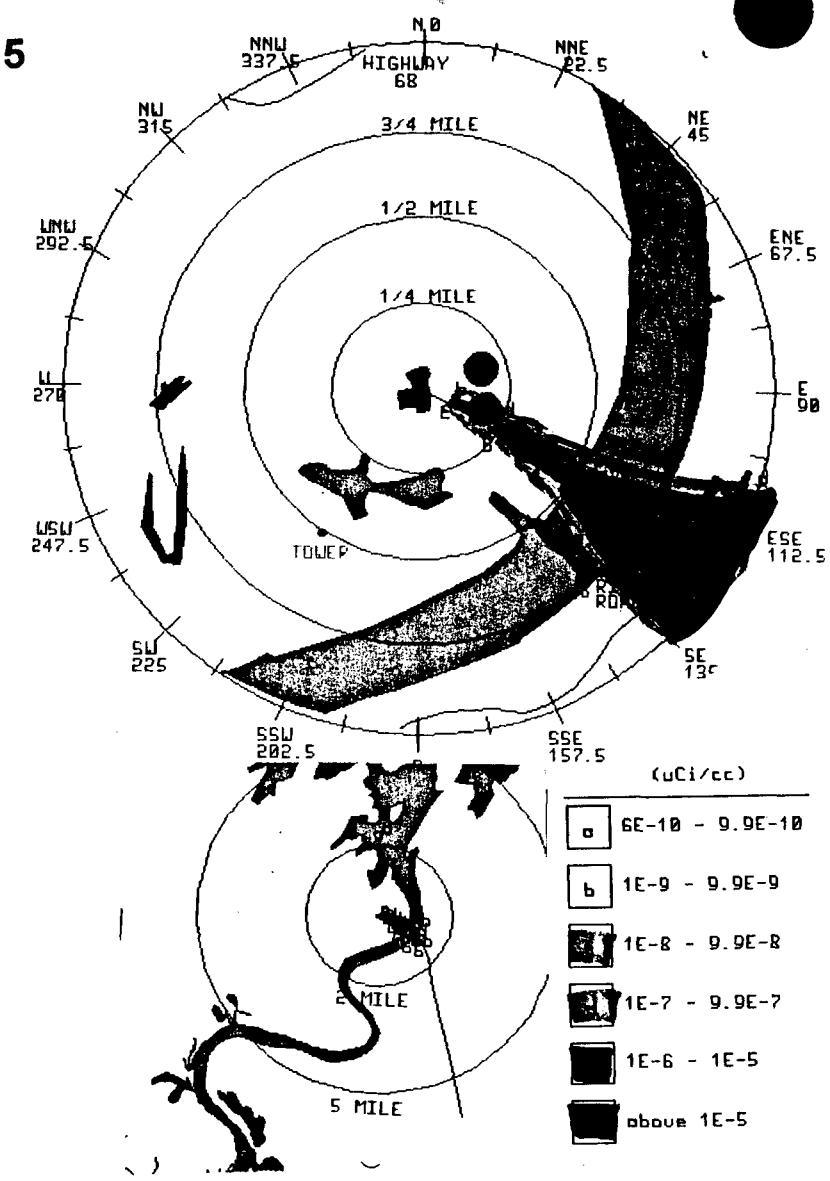
1301-1315

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	ESE/113	>2000.0	>2000.0	>2000.0	>50,000	3.7E+04	3.7E+04	1.2E-04	1.6E-03	9.0E+06	2.1E+08
0.25	ESE/120	>2000.0	>2000.0	>2000.0	1.1E+04	7.5E+03	7.5E+03	2.4E-05	3.2E-04	1.8E+06	4.3E+07
0.50	ESE/113	>2000.0	>2000.0	>2000.0	3.6E+03	2.4E+03	2.4E+03	7.7E-06	1.0E-04	5.7E+05	1.4E+07
0.62	ESE/120	>2000.0	973.00	978.00	1.5E+03	973	978	3.4E-06	4.5E-05	2.5E+05	6.0E+06
0.75	SE /128	>2000.0	722.00	725.00	1.1E+03	722	725	2.5E-06	3.4E-05	1.9E+05	4.4E+06
1.00	ESE/120	1.7E+03	552.00	554.00	828	552	554	1.9E-06	2.6E-05	1.4E+05	3.4E+06
1.25	SE /128	1.3E+03	425.00	426.00	637	425	426	1.5E-06	2.0E-05	1.1E+05	2.7E+06
1.50	ESE/120	8.99	3.00	3.00	5	3	3	5.0E-09	6.6E-08	3.7E+02	8.8E+03
2.00	SE /135	0.20	0.07	0.07	<2	<2	<2	<6E-10	7.1E-10	< 35	9.4E+01
2.50	SSE/158	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	5.3E+01
3.00	SSE/150	0.09	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	4.3E+01
3.50	SSE/150	0.06	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
3.75	SE /143	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.0E+01
4.00	SSE/150	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	SSE/158	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
5.00	SSE/150	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1301-1315


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
5 MILE
(mR/hr)
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/2 MILE
1/4 MILE
TOWER
5 MILE
(uCi/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

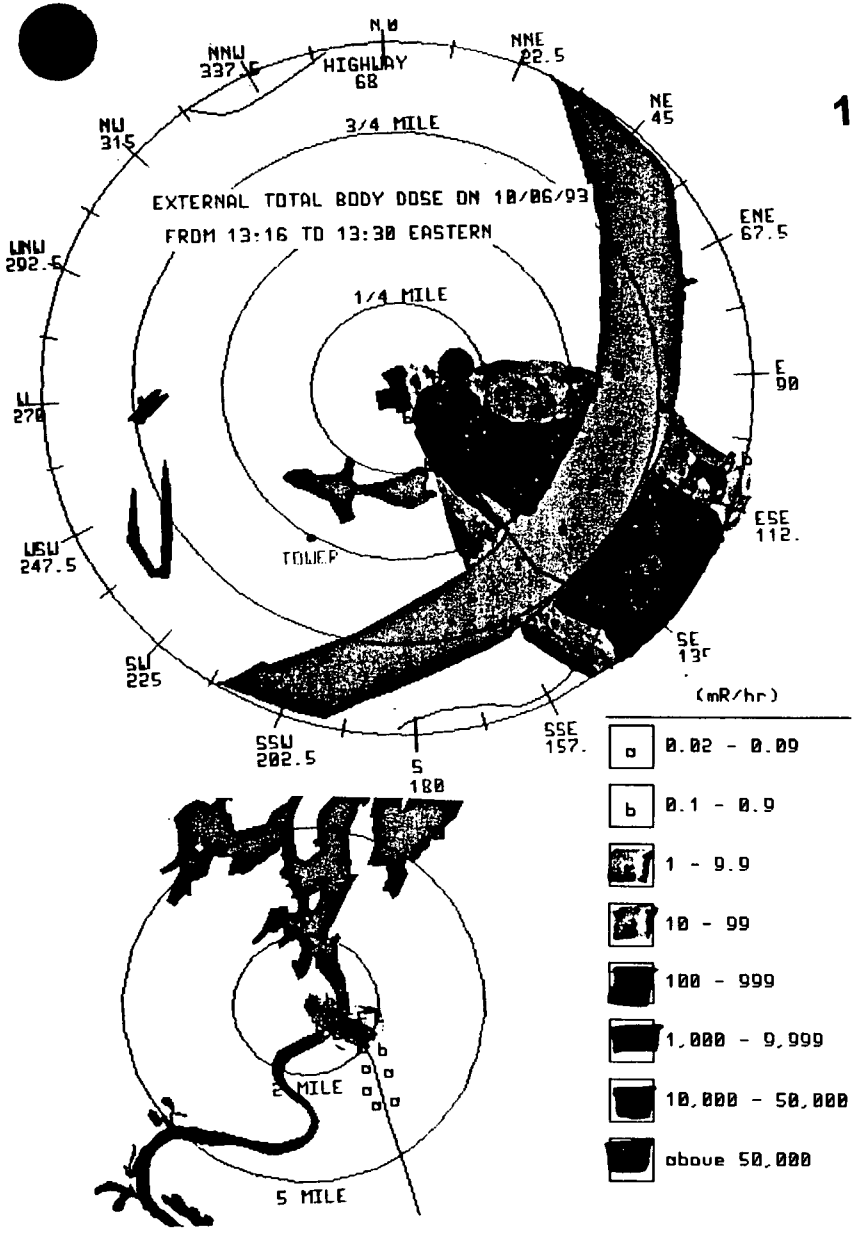
ENVIRONMENTAL MONITORING DATA

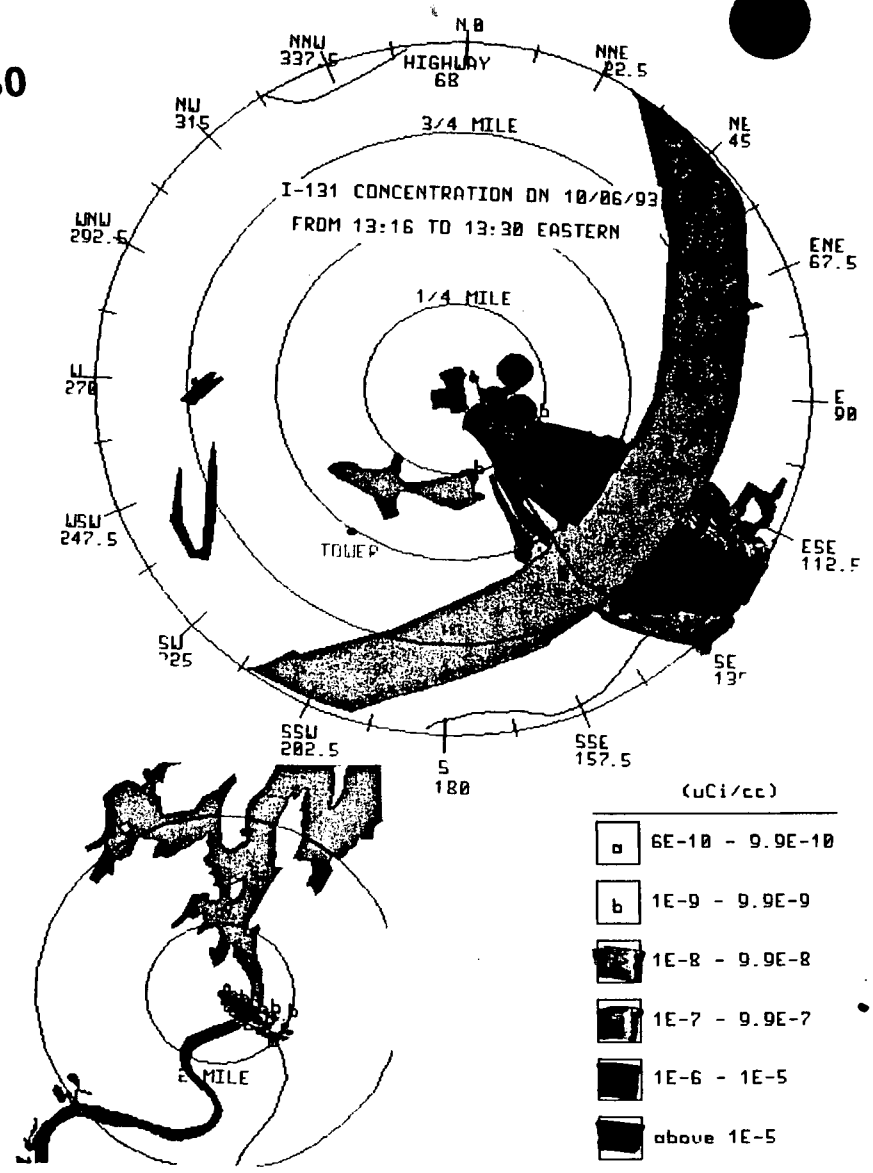
1316-1330

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	SE /143	>2000.0	>2000.0	>2000.0	>50,000	4.1E+04	4.1E+04	1.4E-04	2.1E-03	1.0E+07	2.8E+08
0.25	SSE/150	>2000.0	>2000.0	>2000.0	1.3E+04	8.4E+03	8.4E+03	2.8E-05	4.4E-04	2.1E+06	5.8E+07
0.50	SE /143	>2000.0	>2000.0	>2000.0	3.9E+03	2.6E+03	2.6E+03	8.8E-06	1.4E-04	6.5E+05	1.8E+07
0.62	SSE/150	>2000.0	1.8E+03	1.9E+03	2.8E+03	1.8E+03	1.9E+03	6.2E-06	9.6E-05	4.6E+05	1.3E+07
0.75	SE /143	1.8E+03	583.00	585.00	874	583	585	2.1E-06	3.3E-05	1.6E+05	4.4E+06
1.00	ESE/120	824.00	275.00	278.00	412	275	278	1.0E-06	1.6E-05	7.4E+04	2.1E+06
1.25	SE /128	1.2E+03	398.00	401.00	597	398	401	1.5E-06	2.3E-05	1.1E+05	3.1E+06
1.50	SE /135	780.00	260.00	261.00	390	260	261	9.8E-07	1.5E-05	7.3E+04	2.0E+06
2.00	SE /135	32.30	10.80	10.80	16	11	11	1.9E-08	3.0E-07	1.4E+03	3.9E+04
2.50	SE /128	0.43	0.14	0.14	<2	<2	<2	<6E-10	3.4E-09	< 35	4.5E+02
3.00	SE /135	0.19	0.06	0.06	<2	<2	<2	<6E-10	8.2E-10	< 35	1.1E+02
3.50	SSE/150	0.08	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	4.8E+01
3.75	SE /143	0.08	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	4.7E+01
4.00	SSE/150	0.06	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.4E+01
4.50	SE /143	0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
5.00	SSE/150	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.00	SSE/150	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	SSE/154	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	7.0E-10	< 35	9.2E+01
LOC 3-7		0.16	0.05	0.05	<2	<2	<2	<6E-10	7.0E-10	< 35	9.2E+01
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1316-1330


EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 13:16 TO 13:30 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.
SE 135
SSE 157.
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
(mR/hr)
a 0.02 - 0.09
b 0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000
2 MILE
5 MILE


I-131 CONCENTRATION ON 10/06/93
FROM 13:16 TO 13:30 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.5
SE 135
SSE 157.5
S 180
SSW 202.5
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
(uCi/cc)
a 6E-10 - 9.9E-10
b 1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5
2 MILE

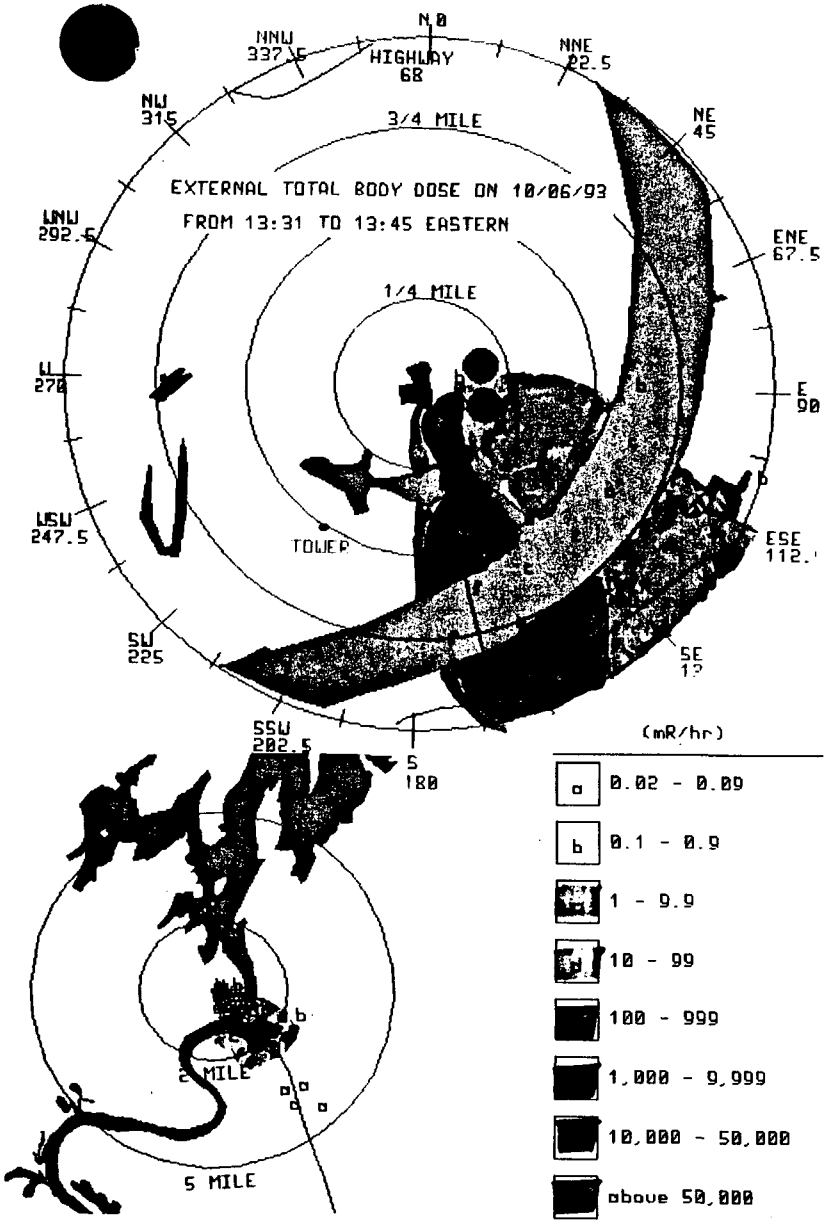
ENVIRONMENTAL MONITORING DATA

1331-1345

Plant: WBN

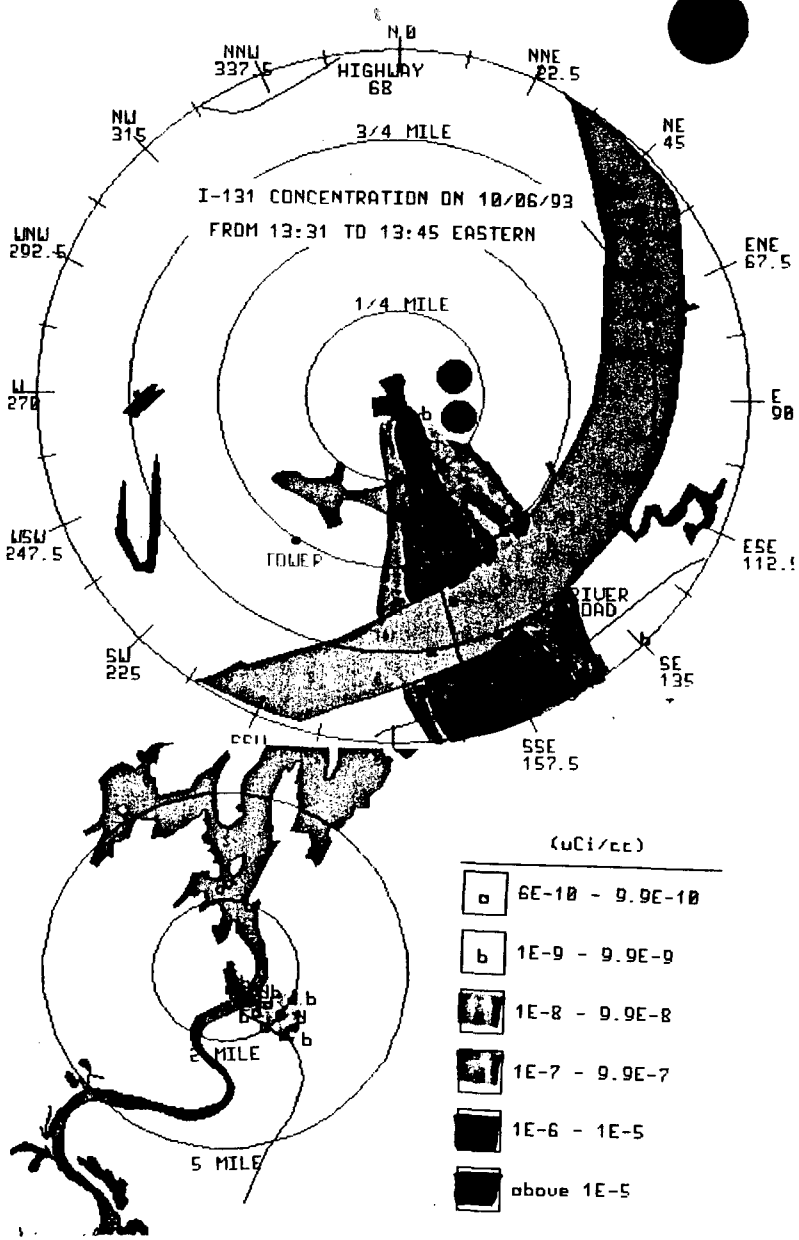
Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	1 meter Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	1 meter Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	S /173	>2000.0	>2000.0	>2000.0	>50,000	4.7E+04	4.7E+04	1.6E-04	2.7E-03	1.2E+07	3.6E+08
0.25	SSE/165	>2000.0	>2000.0	>2000.0	1.4E+04	9.5E+03	9.5E+03	3.3E-05	5.5E-04	2.4E+06	7.4E+07
0.50	S /173	>2000.0	>2000.0	>2000.0	4.5E+03	3.0E+03	3.0E+03	1.0E-05	1.8E-04	7.7E+05	2.3E+07
0.62	SSE/165	>2000.0	>2000.0	>2000.0	3.1E+03	2.1E+03	2.1E+03	7.1E-06	1.2E-04	5.3E+05	1.6E+07
0.75	S /173	>2000.0	1.6E+03	1.6E+03	2.3E+03	1.6E+03	1.6E+03	5.3E-06	9.1E-05	4.0E+05	1.2E+07
1.00	SSE/165	1.7E+03	580.00	582.00	869	580	582	2.2E-06	3.7E-05	1.6E+05	4.9E+06
1.25	SSE/158	846.00	282.00	283.00	423	282	283	1.1E-06	1.8E-05	7.9E+04	2.4E+06
1.50	SSE/150	434.00	145.00	145.00	217	145	145	5.6E-07	9.5E-06	4.2E+04	1.3E+06
2.00	SE /135	470.00	157.00	157.00	235	157	157	6.1E-07	1.0E-05	4.5E+04	1.4E+06
2.50	SE /143	268.00	89.50	89.80	134	90	90	3.6E-07	6.2E-06	2.7E+04	8.2E+05
3.00	SE /135	2.73	0.91	0.91	<2	<2	<2	1.7E-09	2.9E-08	1.3E+02	3.9E+03
3.50	SSE/150	0.14	0.05	0.05	<2	<2	<2	<6E-10	6.8E-10	< 35	9.1E+01
3.75	SE /143	0.14	0.05	0.05	<2	<2	<2	<6E-10	6.8E-10	< 35	9.0E+01
4.00	SSE/150	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	4.8E+01
4.50	SE /143	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	4.3E+01
5.00	SSE/150	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.00	SSE/150	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	SSE/154	0.02	<0.02	<0.02	<2	<2	<2	1.4E-06	2.4E-05	1.0E+05	3.1E+06
LOC.1-1		1.1E+03	375.00	377.00	562	375	377	1.4E-06	2.4E-05	1.0E+05	3.1E+06
LOC 3-6		0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	6.3E+01
LOC 3-7		21.10	7.04	7.05	11	7	7	1.3E-08	2.2E-07	9.7E+02	3.0E+04
LOC 6-4		0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1331-1345



(mR/hr)

- a 0.02 - 0.09
- b 0.1 - 0.9
- 1 - 9.9
- 10 - 99
- 100 - 999
- 1,000 - 9,999
- 10,000 - 50,000
- above 50,000



(uCi/cc)

- a 6E-10 - 9.9E-10
- b 1E-9 - 9.9E-9
- 1E-8 - 9.9E-8
- 1E-7 - 9.9E-7
- 1E-6 - 1E-5
- above 1E-5

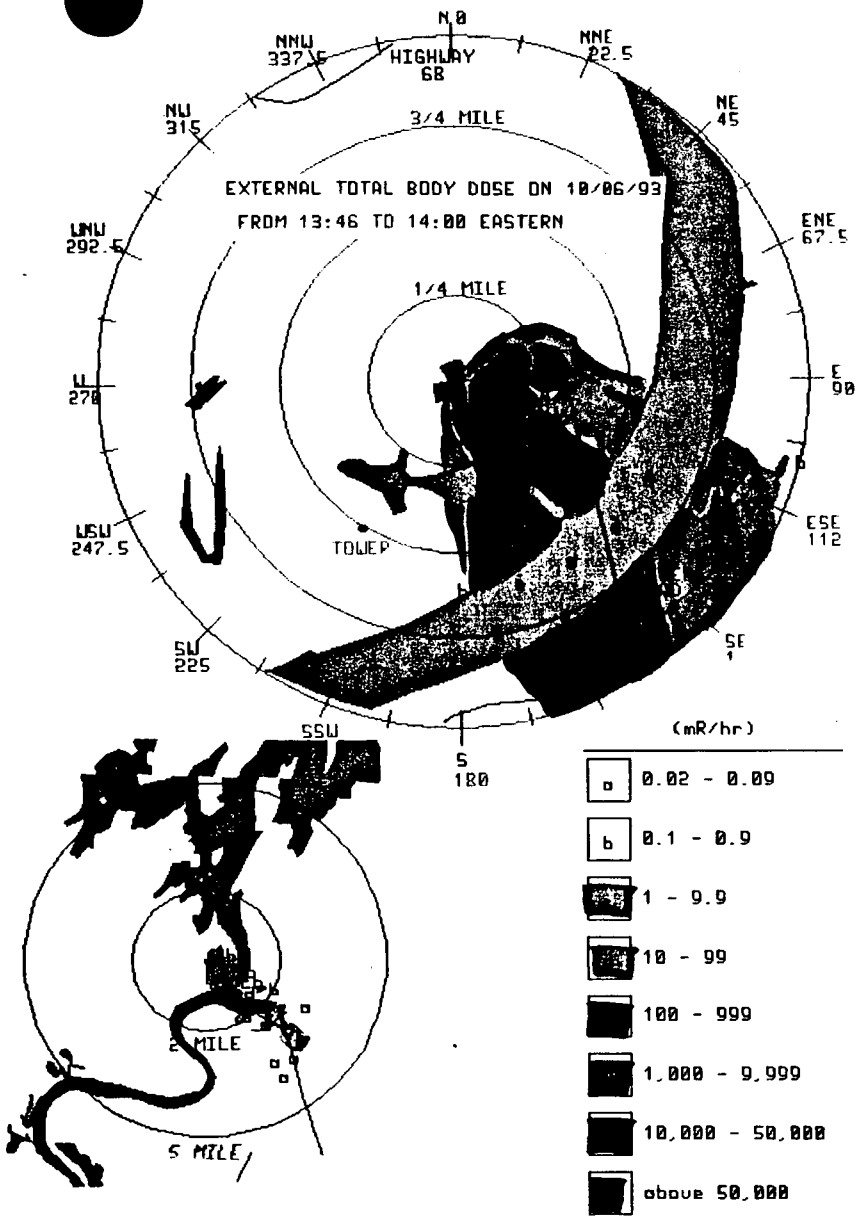
ENVIRONMENTAL MONITORING DATA

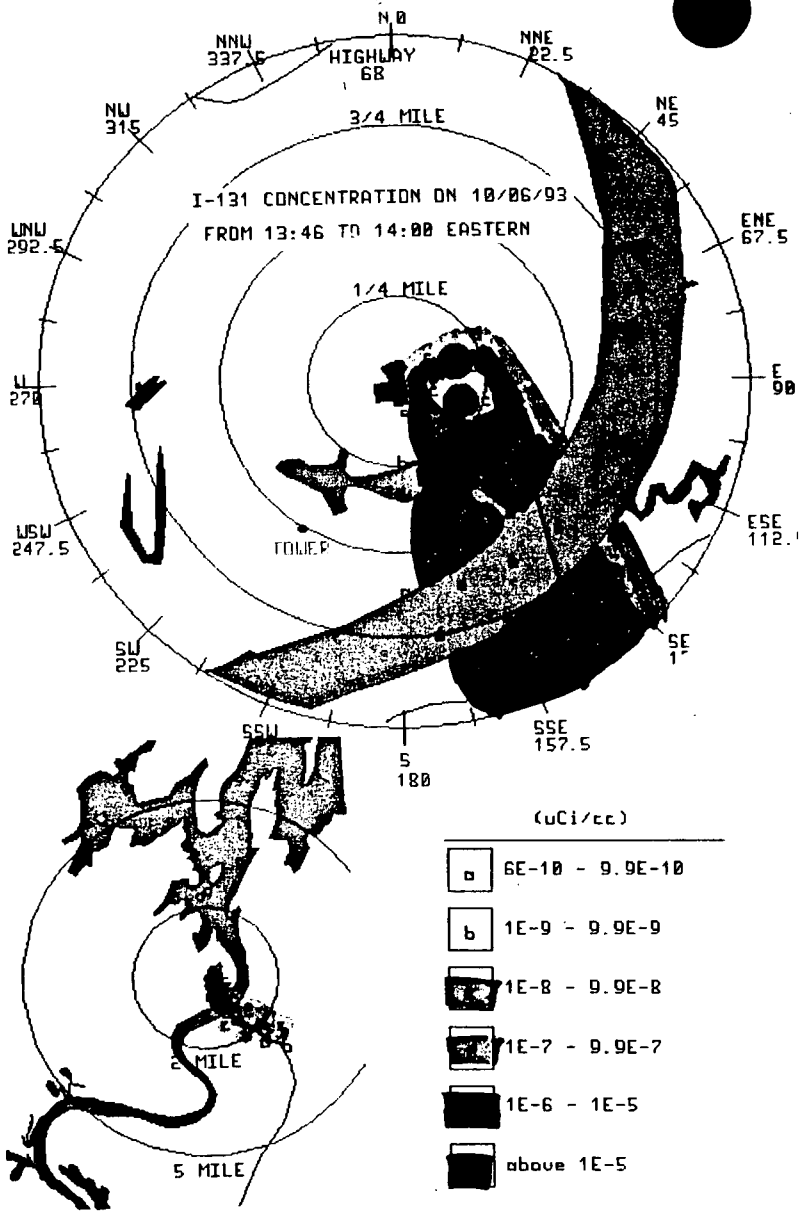
1346-1400

Plant: WBN

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) 1 meter Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) 1 meter Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	E /083	>2000.0	>2000.0	>2000.0	3.5E+04	2.3E+04	2.3E+04	8.1E-05	1.4E-03	6.0E+06	1.9E+08
0.25	ENE/075	>2000.0	>2000.0	>2000.0	7.5E+03	5.0E+03	5.0E+03	1.8E-05	3.1E-04	1.3E+06	4.1E+07
0.50	SSE/158	>2000.0	724.00	730.00	1.1E+03	724	730	2.6E-06	4.7E-05	2.0E+05	6.2E+06
0.62	SE /135	1.8E+03	607.00	616.00	911	607	616	2.3E-06	4.0E-05	1.7E+05	5.3E+06
0.75	SSE/158	1.6E+03	516.00	521.00	774	516	521	1.9E-06	3.4E-05	1.4E+05	4.5E+06
1.00	SSE/165	1.5E+03	490.00	495.00	736	490	495	1.9E-06	3.3E-05	1.4E+05	4.4E+06
1.25	SE /143	1.0E+03	346.00	348.00	519	346	348	1.3E-06	2.4E-05	1.0E+05	3.2E+06
1.50	SSE/150	652.00	217.00	219.00	326	217	219	8.8E-07	1.6E-05	6.6E+04	2.1E+06
2.00	SE /135	416.00	139.00	140.00	208	139	140	5.8E-07	1.0E-05	4.3E+04	1.4E+06
2.50	SE /143	283.00	94.30	95.00	141	94	95	4.0E-07	7.1E-06	3.0E+04	9.4E+05
3.00	SE /135	9.88	3.29	3.30	5	3	3	6.6E-09	1.2E-07	4.9E+02	1.6E+04
3.50	SE /135	0.14	0.05	0.05	<2	<2	<2	<6E-10	7.3E-10	< 35	9.7E+01
3.75	SE /143	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	7.8E+01
4.00	SSE/150	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	4.3E+01
4.50	SE /143	0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.9E+01
5.00	SSE/150	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.00	SSE/150	0.02	<0.02	<0.02	<2	<2	<2	1.4E-06	2.4E-05	1.0E+05	3.2E+06
LOC.1-1		1.1E+03	366.00	370.00	549	366	370	1.4E-06	2.4E-05	1.0E+05	3.2E+06
LOC 3-6		6.22	2.07	2.08	3	2	2	8.5E-09	1.5E-07	6.3E+02	2.0E+04
LOC 3-7		11.90	3.96	3.98	6	4	4	7.9E-09	1.4E-07	5.8E+02	1.9E+04
LOC 6-4		0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1346-1400


EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 13:46 TO 14:00 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112
SE
SSE
S 180
SSW
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
2 MILE
5 MILE
(mR/hr)
0.02 - 0.09
0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


I-131 CONCENTRATION ON 10/06/93
FROM 13:46 TO 14:00 EASTERN
N 0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112
SE
SSE 157.5
S 180
SSW
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MILE
1/4 MILE
TOWER
2 MILE
5 MILE
(uCi/cc)
6E-10 - 9.9E-10
1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

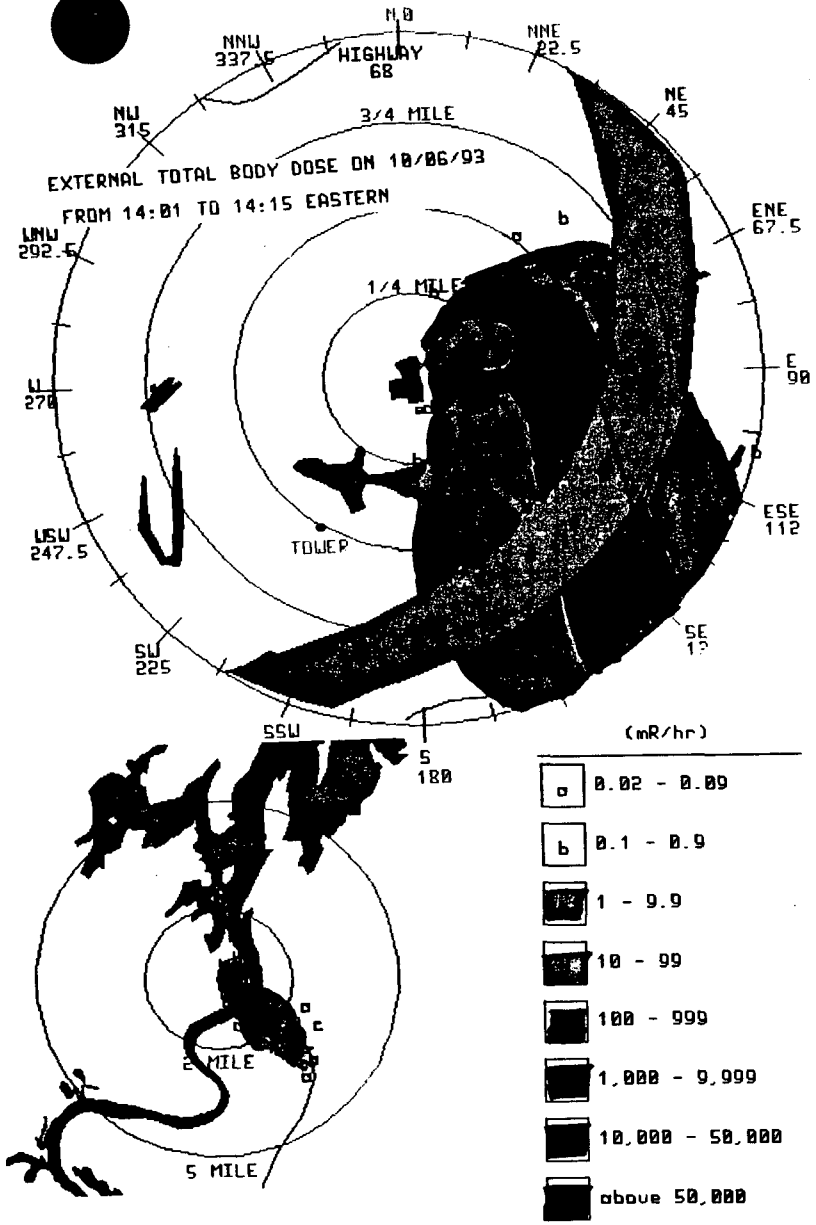
ENVIRONMENTAL MONITORING DATA

1401-1415

Plant: WBN

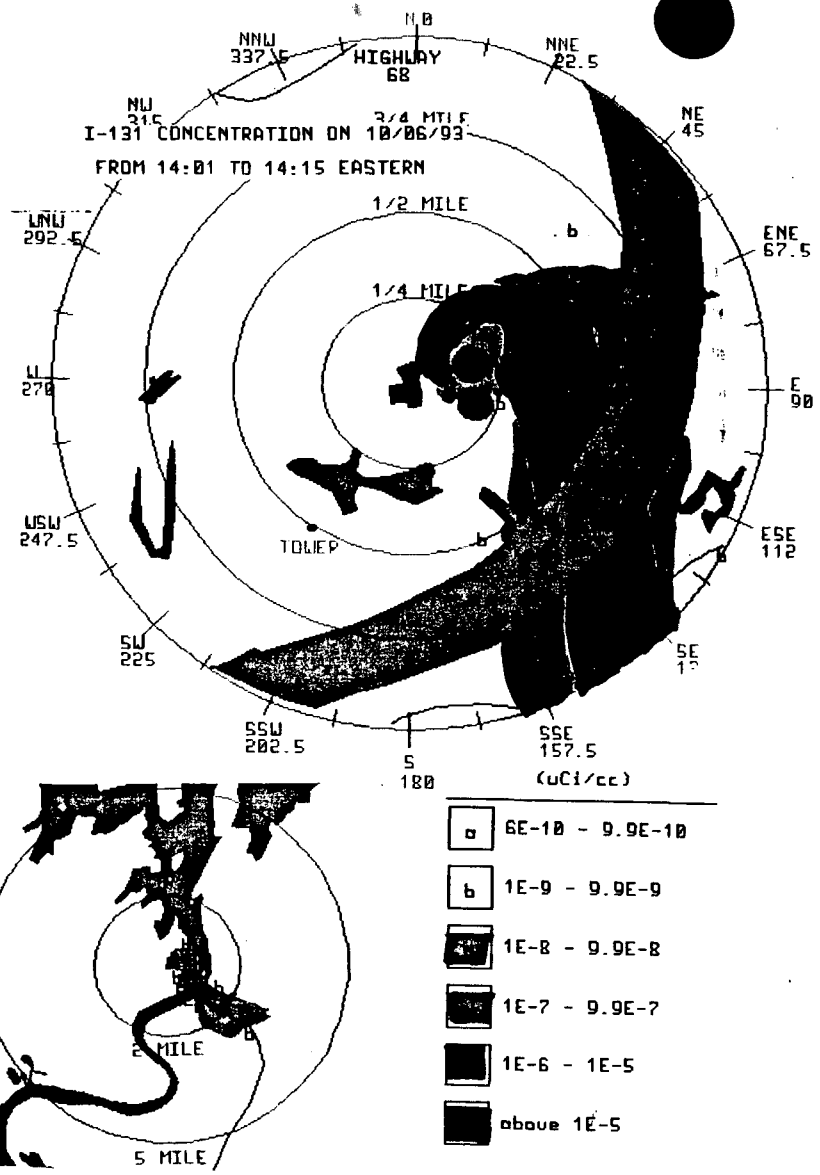
Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NE /038	>2000.0	>2000.0	>2000.0	>50,000	3.9E+04	3.9E+04	1.4E-04	2.5E-03	1.0E+07	3.3E+08
0.25	NE /045	>2000.0	>2000.0	>2000.0	1.2E+04	8.2E+03	8.2E+03	2.9E-05	5.2E-04	2.2E+06	7.0E+07
0.50	ESE/113	1.8E+03	599.00	615.00	899	599	615	2.3E-06	4.1E-05	1.7E+05	5.5E+06
0.62	ESE/105	1.8E+03	600.00	604.00	900	600	604	2.3E-06	4.2E-05	1.7E+05	5.6E+06
0.75	SE /128	981.00	327.00	334.00	491	327	334	1.3E-06	2.3E-05	9.7E+04	3.1E+06
1.00	SSE/150	1.0E+03	333.00	339.00	500	333	339	1.3E-06	2.4E-05	1.0E+05	3.2E+06
1.25	SE /128	822.00	274.00	279.00	411	274	279	1.1E-06	2.0E-05	8.2E+04	2.7E+06
1.50	SSE/150	694.00	231.00	234.00	347	231	234	9.4E-07	1.7E-05	6.9E+04	2.2E+06
2.00	SE /135	364.00	121.00	123.00	182	121	123	5.2E-07	9.4E-06	3.9E+04	1.2E+06
2.50	SE /143	223.00	74.40	75.40	112	74	75	3.3E-07	5.9E-06	2.4E+04	7.8E+05
3.00	ESE/120	9.68	3.23	3.24	5	3	3	1.4E-08	2.5E-07	1.0E+03	3.3E+04
3.50	SE /135	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	7.8E+01
3.75	SE /143	0.11	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	7.7E+01
4.00	SE /135	0.05	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.5E+01
4.50	SE /143	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.3E+01
5.00	SSE/150	0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.00	SSE/150	0.02	<0.02	<0.02	<2	<2	<2	5.2E-08	9.3E-07	3.8E+03	1.2E+05
LOC.1-1		19.40	6.48	10.10	10	6	10	1.1E-08	2.0E-07	8.3E+02	2.7E+04
LOC 3-6		30.50	10.20	10.20	15	10	10	4.4E-08	7.9E-07	3.3E+03	1.0E+05
LOC 3-7		35.70	11.90	12.00	18	12	12	5.2E-08	9.3E-07	3.8E+03	1.2E+05
LOC 6-4		0.03	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1401-1415



(mR/hr)

- a 0.02 - 0.09
- b 0.1 - 0.9
- 1 - 9.9
- 10 - 99
- 100 - 999
- 1,000 - 9,999
- 10,000 - 50,000
- above 50,000



(uCi/cc)

- a 6E-10 - 9.9E-10
- b 1E-9 - 9.9E-9
- 1E-8 - 9.9E-8
- 1E-7 - 9.9E-7
- 1E-6 - 1E-5
- above 1E-5

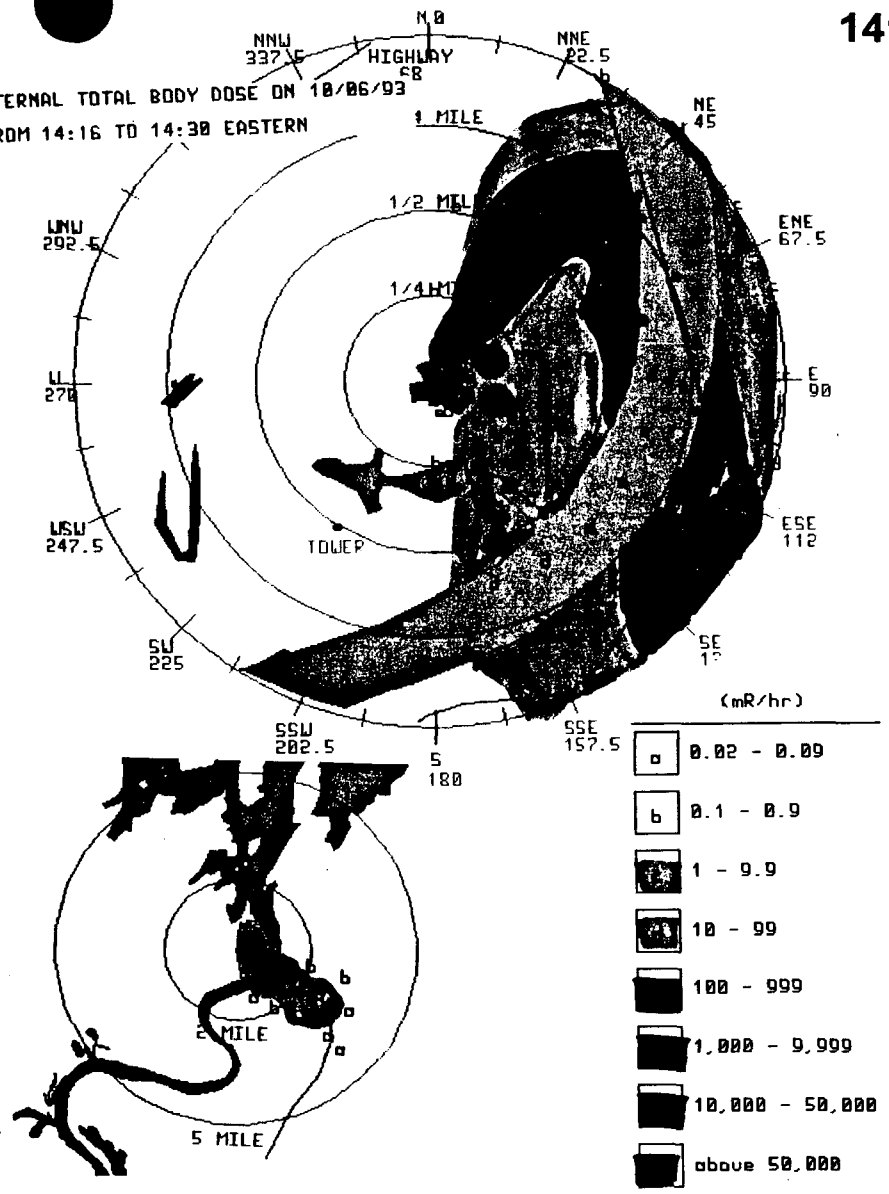
ENVIRONMENTAL MONITORING DATA

1416-1430

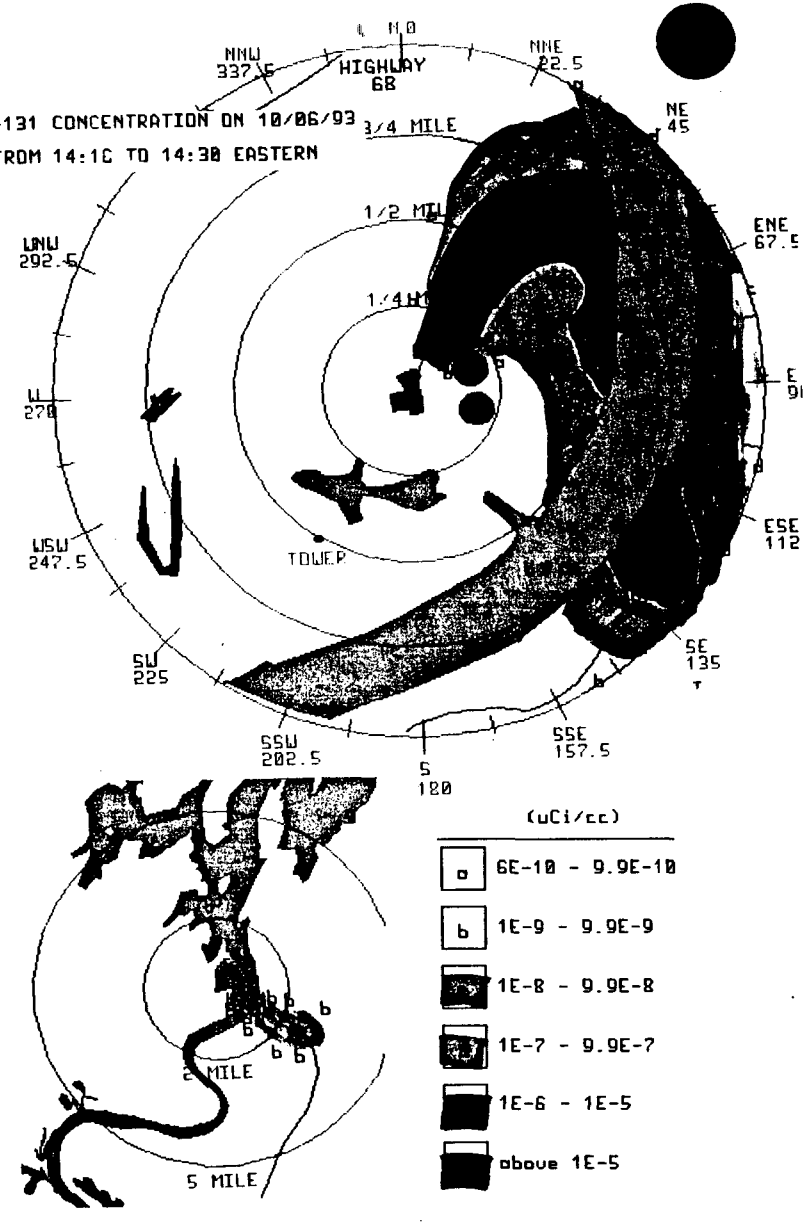
Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	1 meter Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	1 meter Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	NNE/023	>2000.0	>2000.0	>2000.0	>50,000	4.4E+04	4.4E+04	1.6E-04	2.9E-03	1.2E+07	3.8E+08
0.25	NNE/015	>2000.0	>2000.0	>2000.0	1.4E+04	9.1E+03	9.2E+03	3.3E-05	5.9E-04	2.5E+06	7.9E+07
0.50	NNE/023	>2000.0	>2000.0	>2000.0	3.1E+03	2.1E+03	2.1E+03	8.2E-06	1.5E-04	6.1E+05	1.9E+07
0.62	NNE/030	>2000.0	1.4E+03	1.4E+03	2.0E+03	1.4E+03	1.4E+03	5.5E-06	9.9E-05	4.1E+05	1.3E+07
0.75	NE /038	1.5E+03	501.00	503.00	751	501	503	2.1E-06	3.8E-05	1.6E+05	5.0E+06
1.00	ESE/120	594.00	198.00	202.00	297	198	202	8.5E-07	1.5E-05	6.3E+04	2.0E+06
1.25	ESE/113	553.00	184.00	186.00	277	184	186	8.0E-07	1.4E-05	6.0E+04	1.9E+06
1.50	ESE/120	379.00	126.00	127.00	190	126	127	5.7E-07	1.0E-05	4.2E+04	1.3E+06
2.00	SE /135	258.00	86.00	88.20	129	86	88	3.9E-07	7.0E-06	2.9E+04	9.2E+05
2.50	SE /128	200.00	66.60	67.30	100	67	67	3.0E-07	5.4E-06	2.3E+04	7.2E+05
3.00	ESE/120	25.10	8.37	8.41	13	8	8	3.5E-08	6.3E-07	2.6E+03	8.3E+04
3.50	ESE/120	0.10	0.03	0.03	<2	<2	<2	<6E-10	1.2E-09	< 35	1.6E+02
3.75	SE /128	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.0E+01
4.00	SE /135	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	5.5E+01
4.50	SSE/158	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
5.00	SSE/158	0.02	<0.02	<0.02	<2	<2	<2	1.1E-07	2.1E-06	8.5E+03	2.7E+05
LOC.1-1		11.00	3.67	7.34	6	4	7	<6E-10	7.1E-10	< 35	9.4E+01
LOC 3-6		77.60	25.90	26.00	39	26	26	1.1E-07	2.1E-06	8.5E+03	2.7E+05
LOC 3-7		3.13	1.04	1.11	2	<2	<2	4.4E-09	7.9E-08	3.3E+02	1.0E+04
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 14:16 TO 14:30 EASTERN



I-131 CONCENTRATION ON 10/06/93
FROM 14:16 TO 14:30 EASTERN



ENVIRONMENTAL MONITORING DATA

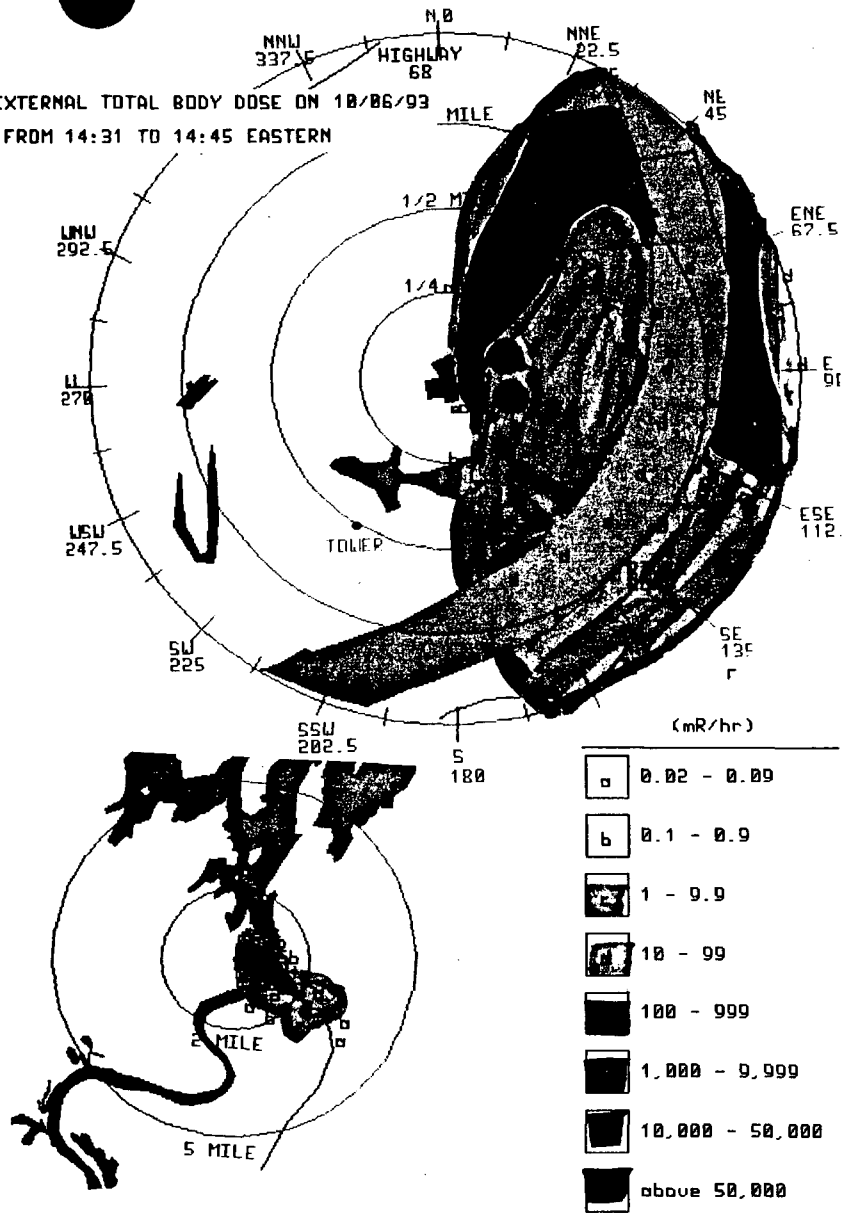
1431-1445

Plant : WBNP

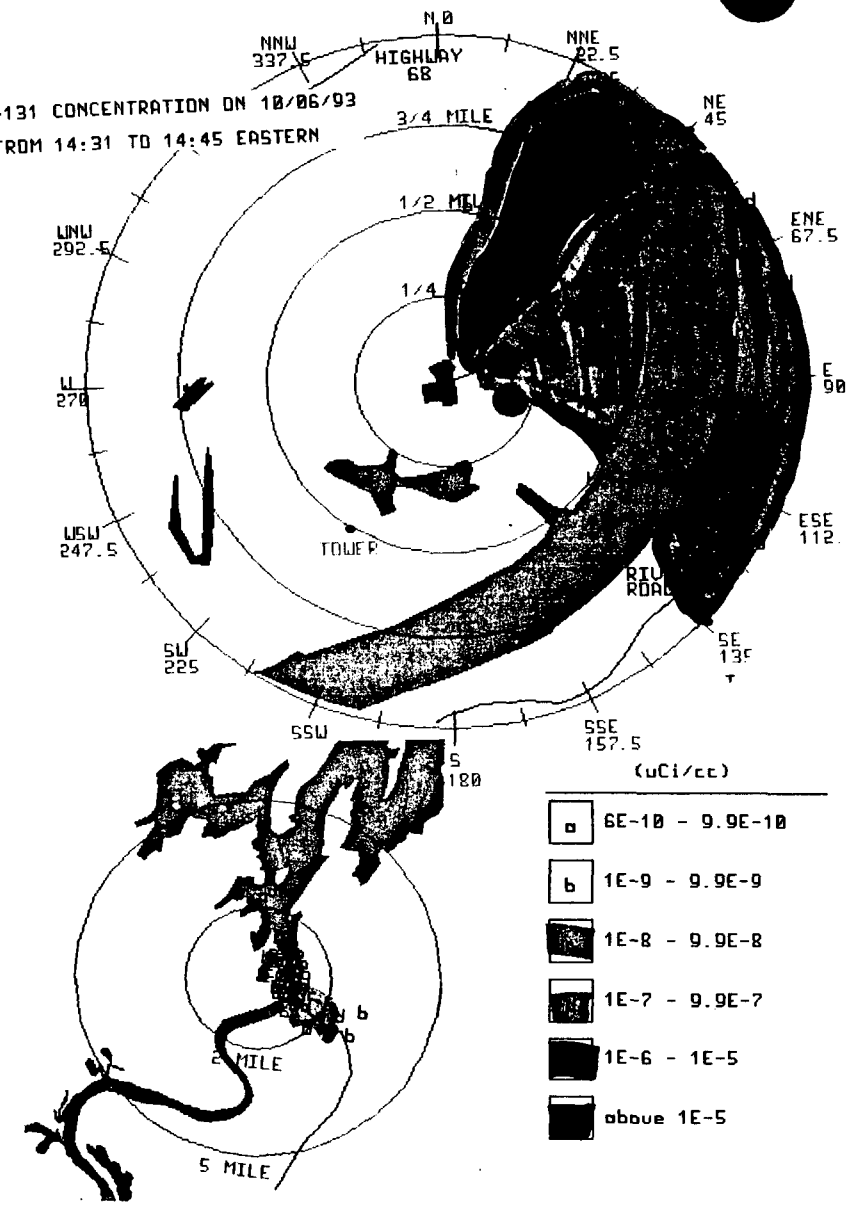
Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	1 meter Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	1 meter Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	ENE/068	>2000.0	>2000.0	>2000.0	4.1E+04	2.7E+04	2.8E+04	1.0E-04	1.8E-03	7.6E+06	2.4E+08
0.25	NE /045	>2000.0	>2000.0	>2000.0	4.8E+03	3.2E+03	3.3E+03	1.2E-05	2.2E-04	9.2E+05	2.9E+07
0.50	NNE/023	>2000.0	>2000.0	>2000.0	4.4E+03	2.9E+03	3.0E+03	1.2E-05	2.0E-04	8.6E+05	2.7E+07
0.62	NNE/030	>2000.0	1.9E+03	1.9E+03	2.8E+03	1.9E+03	1.9E+03	7.8E-06	1.4E-04	5.8E+05	1.8E+07
0.75	NE /038	>2000.0	931.00	939.00	1.4E+03	931	939	4.0E-06	7.0E-05	2.9E+05	9.2E+06
1.00	NE /045	1.3E+03	421.00	423.00	631	421	423	1.9E-06	3.4E-05	1.4E+05	4.4E+06
1.25	ESE/113	419.00	140.00	142.00	210	140	142	6.5E-07	1.1E-05	4.8E+04	1.5E+06
1.50	ESE/120	367.00	122.00	124.00	184	122	124	5.8E-07	1.0E-05	4.3E+04	1.4E+06
2.00	ESE/120	219.00	73.00	73.80	109	73	74	3.7E-07	6.5E-06	2.7E+04	8.6E+05
2.50	ESE/113	140.00	46.60	46.80	70	47	47	2.3E-07	4.1E-06	1.7E+04	5.4E+05
3.00	ESE/120	6.66	2.22	2.26	3	2	2	5.2E-09	9.2E-08	3.9E+02	1.2E+04
3.50	ESE/120	0.09	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	7.1E+01
3.75	SE /128	0.08	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	5.8E+01
4.00	SE /135	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	3.2E+01
4.50	SE /143	0.02	<0.02	<0.02	<2	<2	<2	1.4E-07	2.5E-06	1.1E+04	3.3E+05
LOC.1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-4		6.54	2.18	2.19	3	2	2	1.0E-08	1.8E-07	7.6E+02	2.4E+04
LOC 3-6		86.80	28.90	29.20	43	29	29	1.4E-07	2.5E-06	1.1E+04	3.3E+05
LOC 3-7		0.30	0.10	0.17	<2	<2	<2	<6E-10	2.5E-09	< 35	3.3E+02
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1431-1445

EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 14:31 TO 14:45 EASTERN



I-131 CONCENTRATION ON 10/06/93
FROM 14:31 TO 14:45 EASTERN



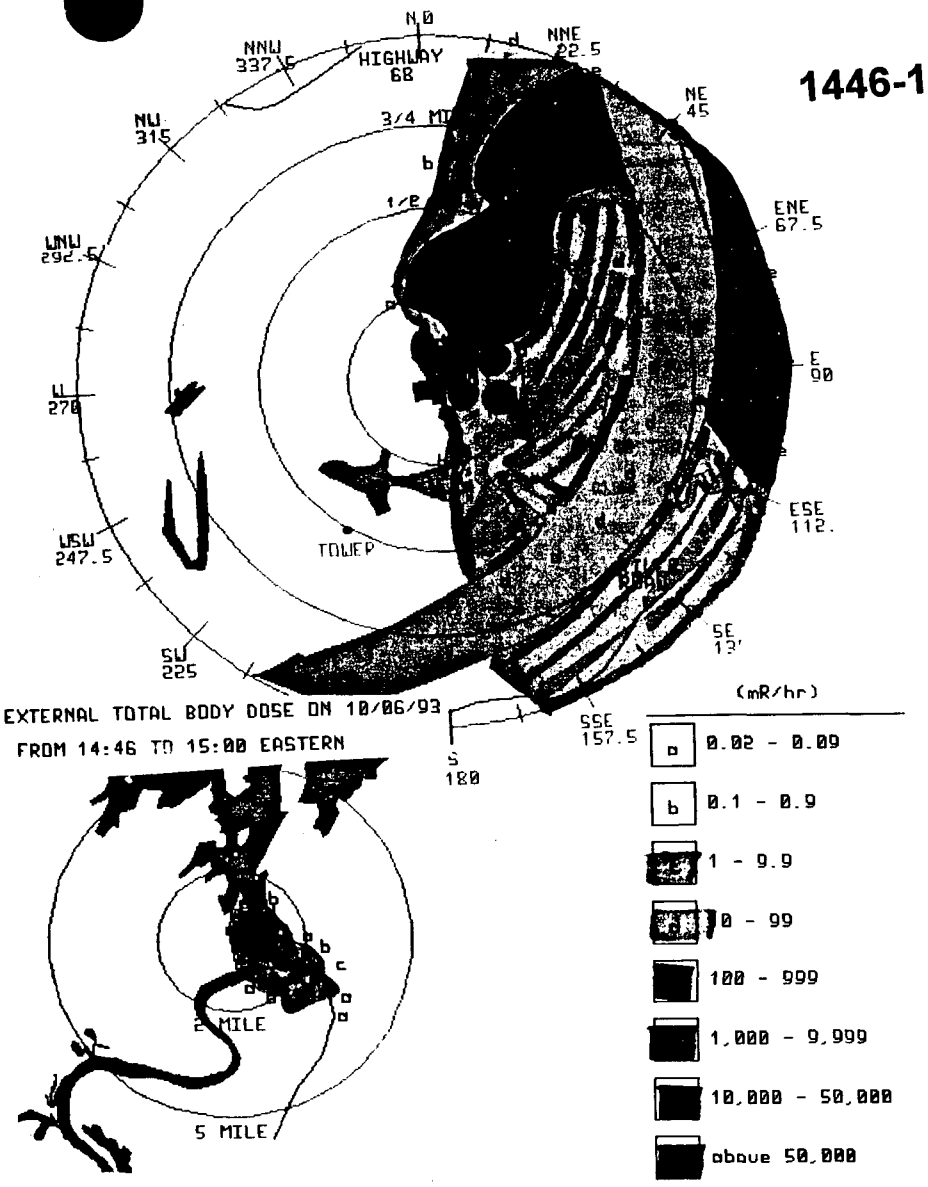
ENVIRONMENTAL MONITORING DATA

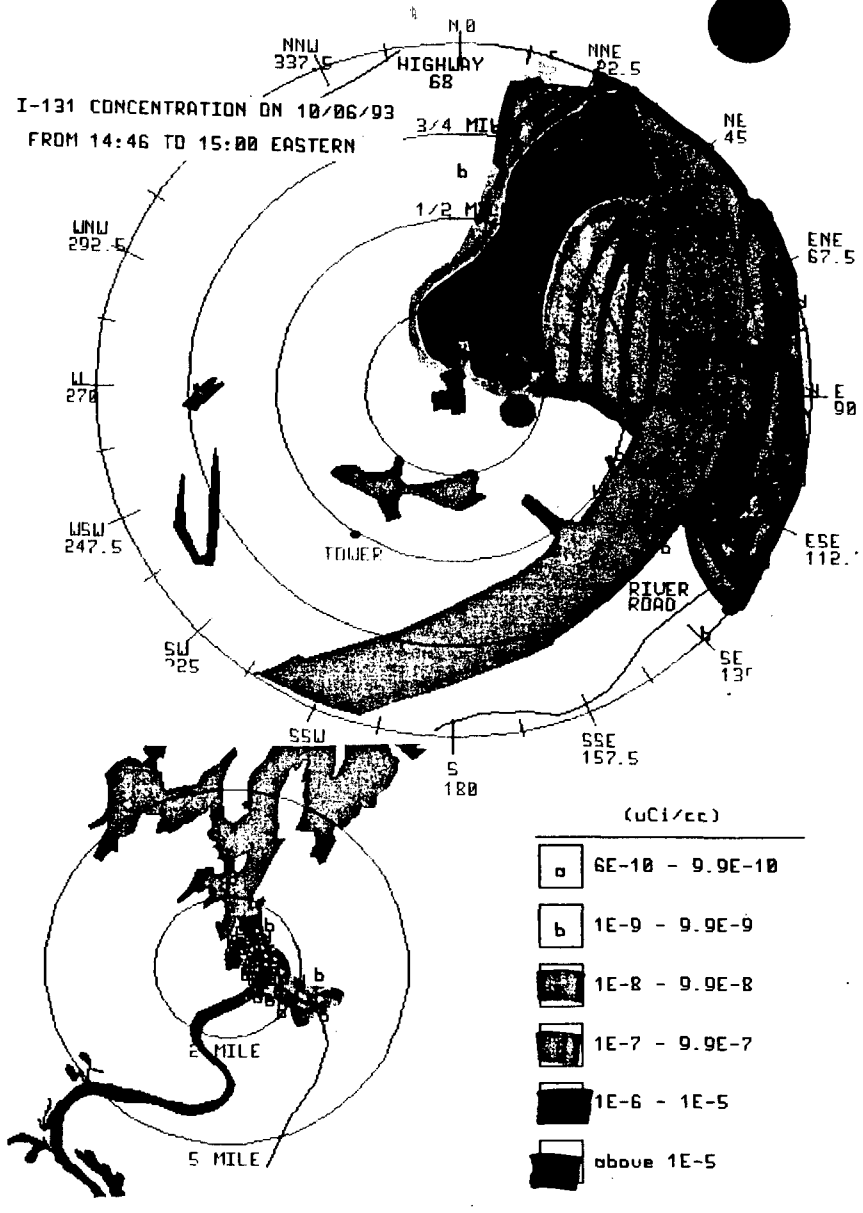
1446-1500

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) 1 meter Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) 1 meter Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	N /353	>2000.0	>2000.0	>2000.0	3.4E+04	2.3E+04	2.3E+04	8.5E-05	1.5E-03	6.3E+06	1.9E+08
0.25	NNW/345	>2000.0	>2000.0	>2000.0	7.2E+03	4.8E+03	4.8E+03	1.8E-05	3.0E-04	1.3E+06	4.0E+07
0.50	NNE/023	>2000.0	1.2E+03	1.3E+03	1.8E+03	1.2E+03	1.3E+03	5.2E-06	8.9E-05	3.9E+05	1.2E+07
0.62	NNE/015	>2000.0	1.5E+03	1.5E+03	2.3E+03	1.5E+03	1.5E+03	6.7E-06	1.1E-04	4.9E+05	1.5E+07
0.75	NNE/023	>2000.0	830.00	836.00	1.3E+03	830	836	3.7E-06	6.3E-05	2.7E+05	8.4E+06
1.00	NNE/030	1.4E+03	478.00	480.00	717	478	480	2.2E-06	3.7E-05	1.6E+05	5.0E+06
1.25	ESE/113	426.00	142.00	145.00	213	142	145	6.8E-07	1.2E-05	5.0E+04	1.5E+06
1.50	ESE/120	301.00	100.00	103.00	150	100	103	5.0E-07	8.6E-06	3.7E+04	1.1E+06
2.00	ESE/120	211.00	70.30	71.40	105	70	71	3.5E-07	6.1E-06	2.6E+04	8.0E+05
2.50	ESE/113	226.00	75.20	75.80	113	75	76	3.8E-07	6.6E-06	2.9E+04	8.8E+05
3.00	ESE/105	16.20	5.40	5.42	8	5	5	2.8E-08	4.8E-07	2.1E+03	6.3E+04
3.50	ESE/120	0.08	0.03	0.03	<2	<2	<2	<6E-10	<6E-10	< 35	6.4E+01
3.75	SE /128	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	5.7E+01
4.00	SE /135	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.50	SE /143	0.02	<0.02	<0.02	<2	<2	<2	8.6E-08	1.5E-06	6.4E+03	2.0E+05
LOC.1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-3		0.41	0.14	0.14	<2	<2	<2	6.8E-10	1.2E-08	5.1E+01	1.6E+03
LOC 2-4		51.70	17.20	17.40	26	17	17	8.6E-08	1.5E-06	6.4E+03	2.0E+05
LOC 3-6		44.10	14.70	15.00	22	15	15	7.4E-08	1.3E-06	5.5E+03	1.7E+05
LOC 3-7		0.22	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9		0.05	<0.02	<0.02	<2	<2	<2	<6E-10	1.5E-09	< 35	1.9E+02
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1446-1500


N,0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.
SE 13
SSE 157.5
S 180
SSW
SW 225
WSW 247.5
W 270
WNW 292.5
NW 315
NNW 337.5
HIGHWAY 68
3/4 MI
1/2
TOWER
EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 14:46 TO 15:00 EASTERN
2 MILE
5 MILE
(mR/hr)
a 0.02 - 0.09
b 0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N,0
NNE 22.5
NE 45
ENE 67.5
E 90
ESE 112.
SE 13
SSE 157.5
S 180
SSW
SW 225
WSW 247.5
W 270
WNW 292.5
NNW 337.5
HIGHWAY 68
3/4 MI
1/2 MI
TOWER
RIVER ROAD
I-131 CONCENTRATION ON 10/06/93
FROM 14:46 TO 15:00 EASTERN
2 MILE
5 MILE
(uCi/cc)
a 6E-10 - 9.9E-10
b 1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 3-6	2.68	0.89	1.18	<2	<2	<2	1.6E-09	<6E-10	1.2E+02	< 30
LOC 3-7	0.22	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-7	0.14	0.05	0.05	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.39	0.13	0.13	<2	<2	<2	7.1E-10	<6E-10	5.3E+01	< 30
LOC 4-9	1.69	0.58	0.57	<2	<2	<2	2.6E-09	<6E-10	2.0E+02	4.4E+01
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

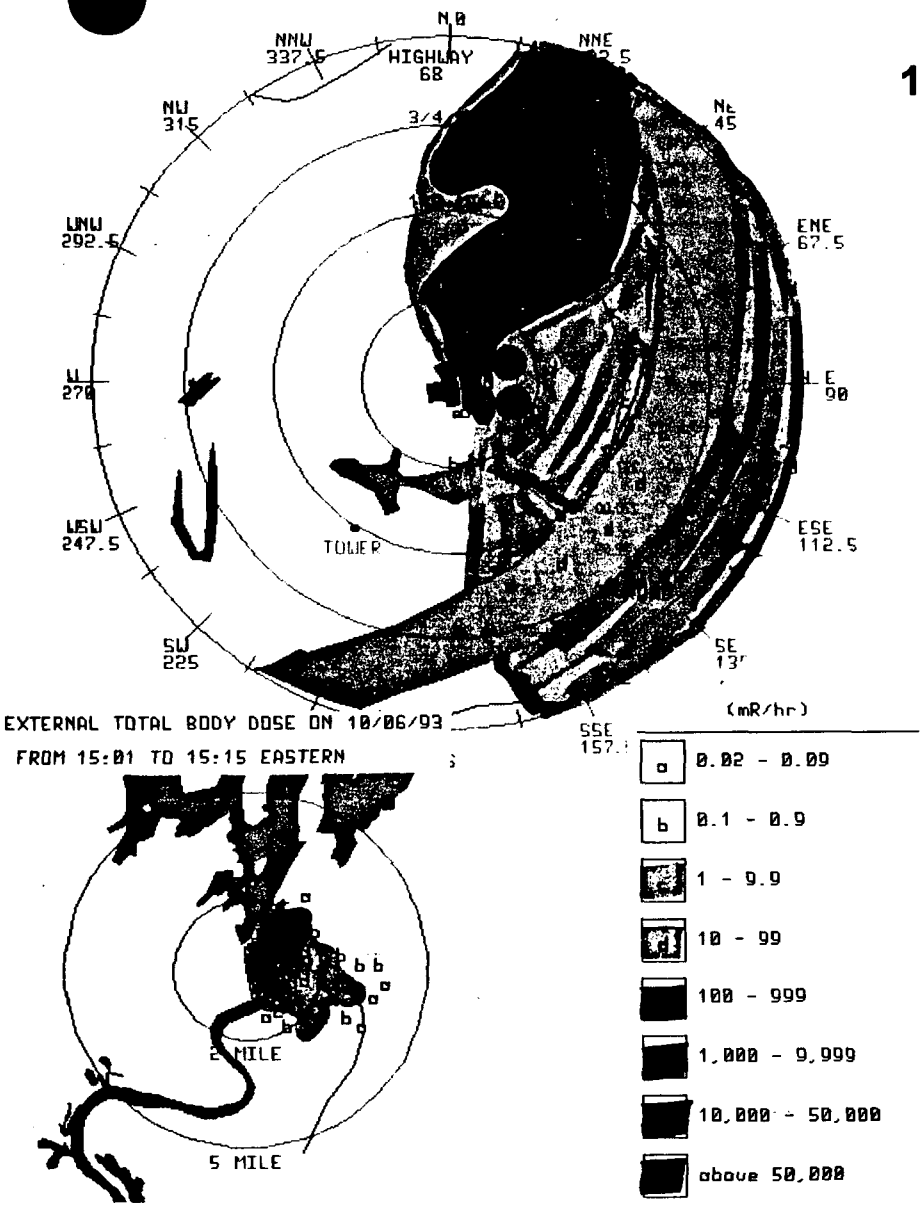
ENVIRONMENTAL MONITORING DATA

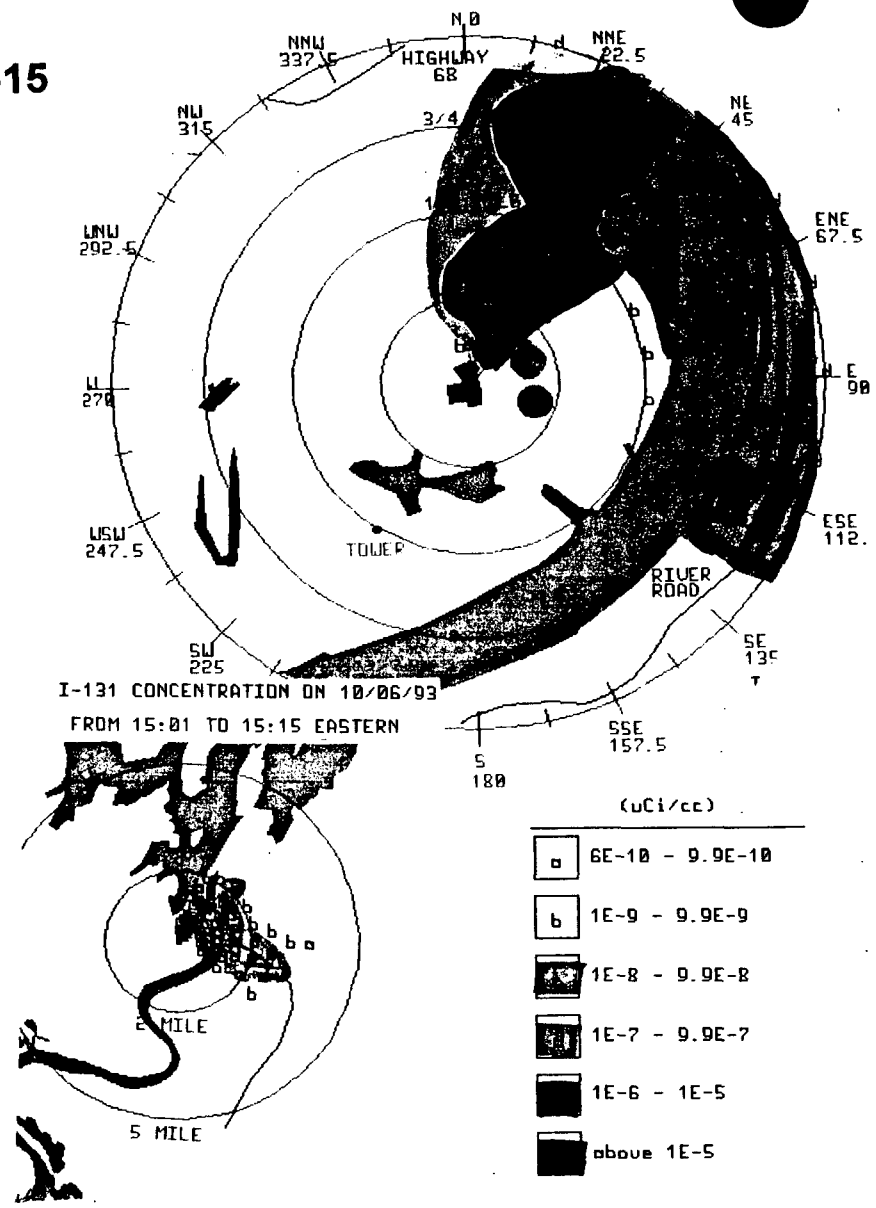
1501-1515

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	1.7E+03	571.00	838.00	857	571	838	1.2E-06	1.5E-07	9.1E+04	2.0E+04
0.25	NNE/015	1.4E+03	450.00	521.00	675	450	521	1.5E-06	1.9E-07	1.1E+05	2.5E+04
0.50	NE /038	>2000.0	767.00	794.00	1.2E+03	767	794	3.2E-06	4.0E-07	2.4E+05	5.3E+04
0.62	NNE/015	>2000.0	822.00	835.00	1.2E+03	822	835	3.6E-06	4.4E-07	2.6E+05	5.9E+04
0.75	NNE/023	>2000.0	698.00	708.00	1.1E+03	698	708	3.1E-06	3.8E-07	2.3E+05	5.0E+04
1.00	NNE/030	1.4E+03	479.00	485.00	719	479	485	2.2E-06	2.7E-07	1.6E+05	3.6E+04
1.25	NNE/023	1.9E+03	632.00	636.00	948	632	636	3.0E-06	3.7E-07	2.2E+05	4.9E+04
1.50	NNE/030	1.5E+03	502.00	505.00	754	502	505	2.5E-06	3.0E-07	1.8E+05	4.0E+04
2.00	NE /045	328.00	109.00	109.00	163	109	109	5.5E-07	6.8E-08	4.1E+04	9.1E+03
2.50	E /098	92.70	30.90	31.00	46	31	31	1.7E-07	2.2E-08	1.3E+04	2.9E+03
3.00	ESE/105	21.50	7.16	7.21	11	7	7	3.6E-08	4.4E-09	2.7E+03	5.9E+02
3.50	E /090	0.49	0.16	0.16	<2	<2	<2	9.0E-10	<6E-10	6.7E+01	< 30
3.75	E /098	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
4.00	ESE/120	0.03	<0.02	<0.02	<2	<2	<2	7.2E-07	8.9E-08	5.4E+04	1.2E+04
LOC.1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		439.00	146.00	147.00	219	146	147	7.2E-07	8.9E-08	5.4E+04	1.2E+04
LOC 2-3		238.00	79.30	79.80	119	79	80	3.9E-07	4.9E-08	2.9E+04	6.4E+03
LOC 2-4		211.00	70.40	70.90	106	70	71	3.7E-07	4.6E-08	2.8E+04	6.1E+03
LOC 3-3		11.70	3.90	3.93	6	4	4	2.0E-08	2.5E-09	1.5E+03	3.3E+02
LOC 3-4		131.00	43.50	43.80	65	44	44	2.2E-07	2.7E-08	1.6E+04	3.6E+03
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1501-1515


N,0
NNW 337.5
HIGHWAY 68
NNE 22.5
NW 315
3/4
NE 45
WNW 292.5
ENE 67.5
W 270
E 90
WSW 247.5
TOWER
ESE 112.5
SW 225
SE 135
SSE 157.5
EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 15:01 TO 15:15 EASTERN
2 MILE
5 MILE
(mR/hr)
a 0.02 - 0.09
b 0.1 - 0.9
1 - 9.9
10 - 99
100 - 999
1,000 - 9,999
10,000 - 50,000
above 50,000


N,0
NNW 337.5
HIGHWAY 68
NNE 22.5
NW 315
3/4
NE 45
WNW 292.5
ENE 67.5
W 270
E 90
WSW 247.5
TOWER
ESE 112.5
RIVER ROAD
SW 225
SE 135
SSE 157.5
S 180
I-131 CONCENTRATION ON 10/06/93
FROM 15:01 TO 15:15 EASTERN
2 MILE
5 MILE
(uCi/cc)
a 6E-10 - 9.9E-10
b 1E-9 - 9.9E-9
1E-8 - 9.9E-8
1E-7 - 9.9E-7
1E-6 - 1E-5
above 1E-5

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 3-3	939.00	313.00	315.00	469	313	315	1.6E-08	2.0E-07	1.2E+05	2.6E+04
LOC 3-4	785.00	262.00	264.00	393	262	264	1.4E-08	1.7E-07	1.0E+05	2.2E+04
LOC 3-5	0.81	0.27	0.27	<2	<2	<2	1.5E-09	<6E-10	1.1E+02	< 30
LOC 3-6	1.19	0.40	0.69	<2	<2	<2	6.3E-10	<6E-10	4.7E+01	< 30
LOC 3-7	0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6	0.71	0.24	0.24	<2	<2	<2	1.4E-09	<6E-10	1.1E+02	< 30
LOC 4-7	29.80	9.95	10.00	15	10	10	6.0E-08	7.5E-09	4.5E+03	9.9E+02
LOC 4-8	46.30	15.40	15.50	23	15	16	9.3E-08	1.2E-08	6.9E+03	1.5E+03
LOC 4-9	69.50	23.20	23.30	35	23	23	1.4E-07	1.7E-08	1.0E+04	2.3E+03
LOC 5-8	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

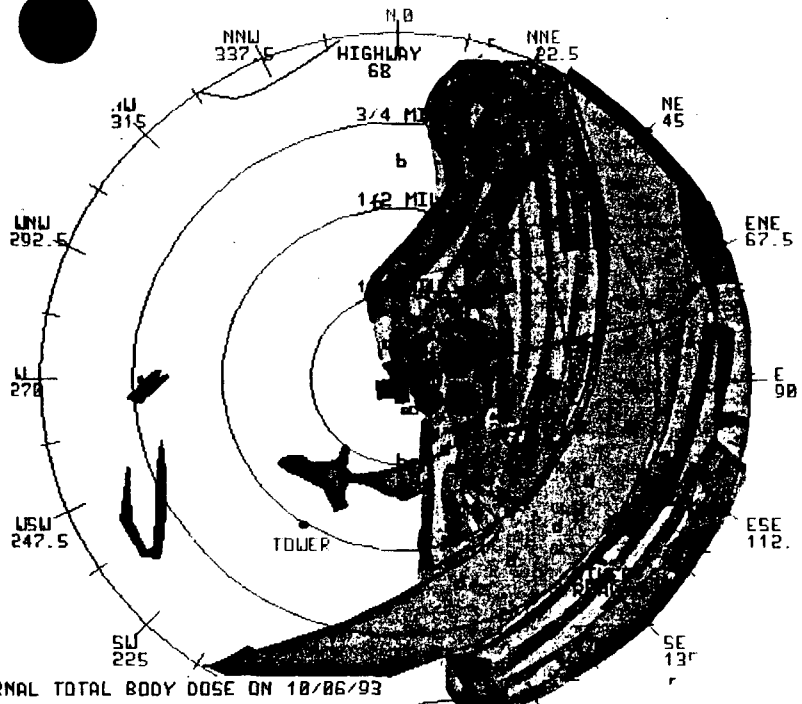
ENVIRONMENTAL MONITORING DATA

1516-1530

Plant : WBNP

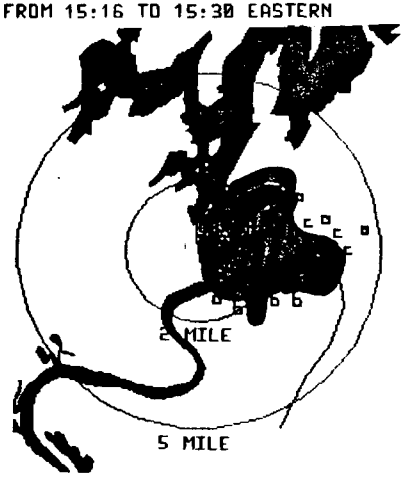
Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	79.00	26.30	52.10	40	26	52	2.4E-09	<6E-10	1.8E+02	4.0E+01
0.75	NE /038	151.00	50.30	62.30	76	50	62	1.7E-07	2.0E-08	1.2E+04	2.7E+03
1.00	NNE/030	809.00	270.00	277.00	405	270	277	1.2E-06	1.5E-07	8.8E+04	2.0E+04
1.25	NE /038	793.00	264.00	270.00	397	264	270	1.2E-06	1.5E-07	8.9E+04	2.0E+04
1.50	NE /045	1.4E+03	478.00	482.00	718	478	482	2.3E-06	2.8E-07	1.7E+05	3.7E+04
2.00	NE /045	715.00	238.00	240.00	357	238	240	1.2E-06	1.5E-07	9.1E+04	2.0E+04
2.50	NE /053	577.00	192.00	194.00	289	192	194	1.0E-06	1.3E-07	7.6E+04	1.7E+04
3.00	E /090	64.10	21.40	21.50	32	21	22	1.2E-07	1.5E-08	9.2E+03	2.0E+03
3.50	ESE/105	42.70	14.20	14.30	21	14	14	8.7E-08	1.1E-08	6.4E+03	1.4E+03
3.75	E /098	38.30	12.80	12.80	19	13	13	7.2E-08	9.0E-09	5.4E+03	1.2E+03
4.00	E /090	9.00	3.00	3.01	5	3	3	1.7E-08	2.1E-09	1.3E+03	2.8E+02
4.50	E /083	0.08	0.03	0.03	<2	<2	<2	1.6E-06	2.0E-07	1.2E+05	2.6E+04
LOC.1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		611.00	204.00	206.00	306	204	206	1.0E-06	1.3E-07	7.7E+04	1.7E+04
LOC 2-3		157.00	52.40	53.30	79	52	53	2.6E-07	3.3E-08	2.0E+04	4.3E+03
LOC 2-4		13.90	4.65	5.20	7	5	5	2.3E-08	2.8E-09	1.7E+03	3.7E+02
LOC 3-2		28.80	9.61	9.69	14	10	10	4.8E-08	5.9E-09	3.5E+03	7.8E+02
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1516-1530



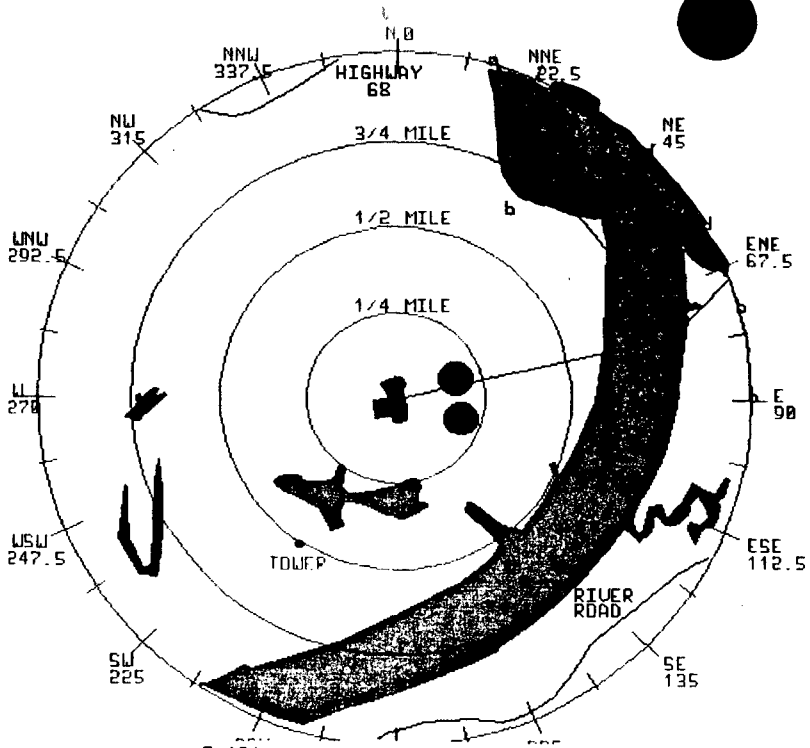
EXTERNAL TOTAL BODY DOSE ON 10/06/93

FROM 15:16 TO 15:30 EASTERN



(mR/hr)

- a 0.02 - 0.09
- b 0.1 - 0.9
- 1 - 9.9
- 10 - 99
- 100 - 999
- 1,000 - 9,999
- 10,000 - 50,000
- above 50,000



I-131 CONCENTRATION ON 10/06/93

FROM 15:16 TO 15:30 EASTERN

(uCi/cc)

- a 6E-10 - 9.9E-10
- b 1E-9 - 9.9E-9
- 1E-8 - 9.9E-8
- 1E-7 - 9.9E-7
- 1E-6 - 1E-5
- above 1E-5

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 3-2	0.27	0.09	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3	165.00	55.00	57.20	82	55	57	2.8E-07	3.5E-08	2.1E+04	4.6E+03
LOC 3-4	654.00	218.00	221.00	327	218	221	1.1E-06	1.4E-07	8.2E+04	1.8E+04
LOC 3-5	188.00	62.60	63.00	94	63	63	3.5E-07	4.3E-08	2.6E+04	5.7E+03
LOC 3-6	0.88	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7	0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1	0.06	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2	58.60	19.50	19.70	29	20	20	1.1E-07	1.3E-08	8.0E+03	1.8E+03
LOC 4-3	14.00	4.68	4.72	7	5	5	2.8E-08	3.5E-09	2.1E+03	4.6E+02
LOC 4-4	14.00	4.68	4.72	7	5	5	2.8E-08	3.5E-09	2.1E+03	4.6E+02
LOC 4-5	16.90	5.65	5.69	8	6	6	3.5E-08	4.3E-09	2.6E+03	5.8E+02
LOC 4-6	56.90	19.00	19.10	28	19	19	1.1E-07	1.4E-08	8.5E+03	1.9E+03
LOC 4-7	80.00	26.70	26.90	40	27	27	1.6E-07	2.0E-08	1.2E+04	2.7E+03
LOC 4-8	74.00	24.70	24.90	37	25	25	1.5E-07	1.9E-08	1.1E+04	2.5E+03
LOC 4-9	18.40	6.14	6.28	9	6	6	3.8E-08	4.7E-09	2.8E+03	6.3E+02
LOC 5-5	0.25	0.08	0.08	<2	<2	<2	<6E-10	<6E-10	3.7E+01	< 30
LOC 5-6	0.43	0.14	0.14	<2	<2	<2	8.8E-10	<6E-10	6.5E+01	< 30
LOC 5-7	0.12	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

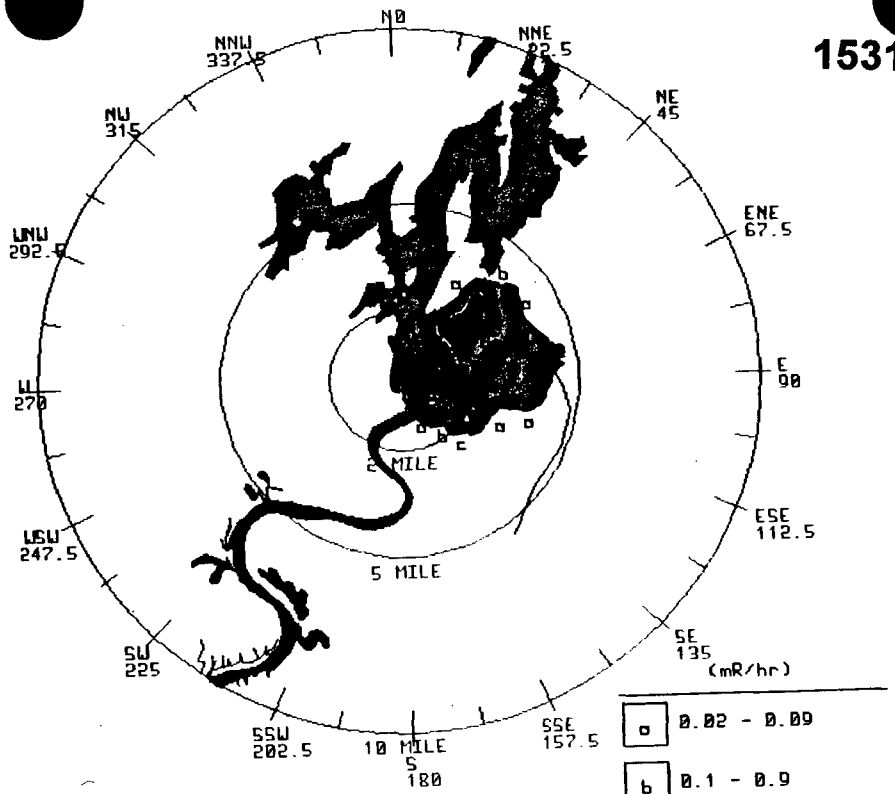
ENVIRONMENTAL MONITORING DATA

1531-1545

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10 NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25 NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50 NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62 NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75 NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00 NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25 SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50 ENE/060	64.60	21.50	22.60	32	22	23	9.4E-08	1.2E-08	7.0E+03	1.5E+03
2.00 NE /045	574.00	191.00	195.00	287	191	195	9.5E-07	1.2E-07	7.0E+04	1.6E+04
2.50 NE /053	1.1E+03	367.00	370.00	550	367	370	1.9E-06	2.4E-07	1.4E+05	3.1E+04
3.00 NE /045	468.00	156.00	157.00	234	156	157	8.6E-07	1.1E-07	6.4E+04	1.4E+04
3.50 ENE/060	273.00	91.10	91.70	137	91	92	5.1E-07	6.3E-08	3.8E+04	8.4E+03
3.75 NE /053	109.00	36.20	36.40	54	36	36	2.1E-07	2.6E-08	1.5E+04	3.4E+03
4.00 E /090	61.00	20.30	20.40	31	20	20	1.3E-07	1.6E-08	9.5E+03	2.1E+03
4.50 E /083	4.81	1.60	1.61	2	2	2	9.8E-09	1.2E-09	7.3E+02	1.6E+02
5.00 E /090	2.80	0.93	0.94	<2	<2	<2	1.1E-06	1.4E-07	8.2E+04	1.8E+04
LOC 1-1	11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2	6.61	2.20	4.39	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3	2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4	1.67	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

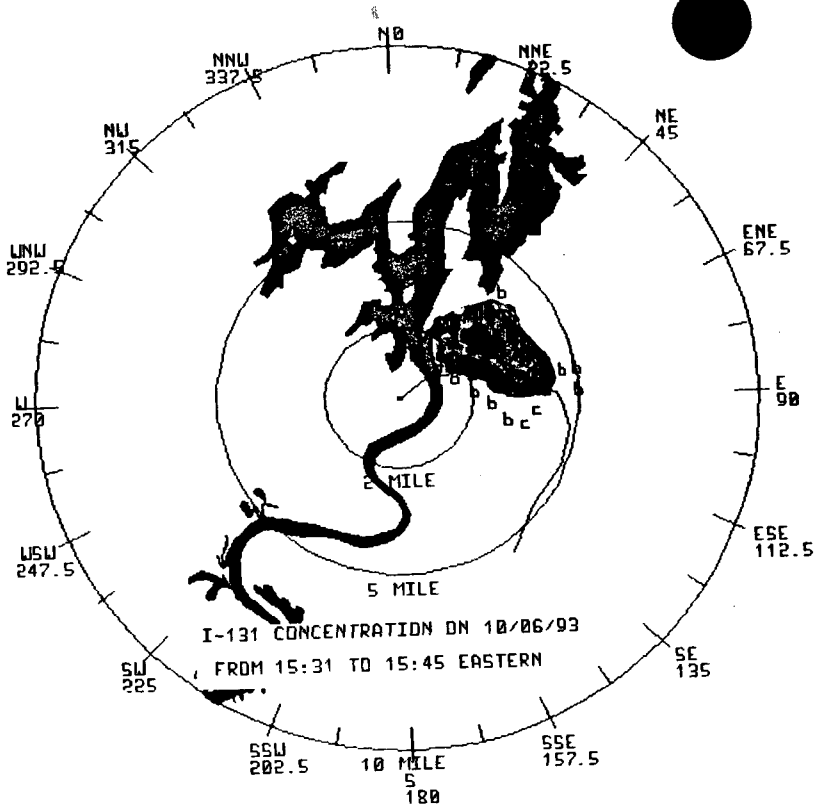
1531-1545



EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 15:31 TO 15:45 EASTERN

(mR/hr)

- a 0.02 - 0.09
- b 0.1 - 0.9
- 1 - 9.9
- 10 - 99
- 100 - 999
- 1,000 - 9,999
- 10,000 - 50,000
- above 50,000



I-131 CONCENTRATION ON 10/06/93
FROM 15:31 TO 15:45 EASTERN

(uCi/cc)

- a 6E-10 - 9.9E-10
- b 1E-9 - 9.9E-9
- 1E-8 - 9.9E-8
- 1E-7 - 9.9E-7
- 1E-6 - 1E-5
- above 1E-5

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 3-2	0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3	11.30	3.75	6.04	6	4	6	7.2E-09	8.9E-10	5.3E+02	1.2E+02
LOC 3-4	10.60	3.52	6.80	5	4	7	1.2E-09	<6E-10	8.6E+01	< 30
LOC 3-5	421.00	140.00	142.00	211	140	142	7.3E-07	9.1E-08	5.4E+04	1.2E+04
LOC 3-6	0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7	0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1	18.50	6.16	6.21	9	6	6	3.5E-08	4.3E-09	2.6E+03	5.7E+02
LOC 4-2	356.00	119.00	120.00	178	119	120	6.5E-07	8.1E-08	4.8E+04	1.1E+04
LOC 4-3	112.00	37.30	37.60	56	37	38	2.3E-07	2.9E-08	1.7E+04	3.8E+03
LOC 4-4	112.00	37.30	37.60	56	37	38	2.3E-07	2.9E-08	1.7E+04	3.8E+03
LOC 4-5	90.90	30.30	30.60	46	30	31	1.9E-07	2.4E-08	1.4E+04	3.2E+03
LOC 4-6	61.10	20.40	20.70	31	20	21	1.3E-07	1.6E-08	9.4E+03	2.1E+03
LOC 4-7	20.50	6.83	7.10	10	7	7	4.2E-08	5.1E-09	3.1E+03	6.8E+02
LOC 4-8	15.80	5.27	5.57	8	5	6	3.2E-08	3.9E-09	2.3E+03	5.2E+02
LOC 4-9	0.61	0.20	0.34	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	5.69	1.90	1.91	3	2	2	1.2E-08	1.5E-09	9.1E+02	2.0E+02
LOC 5-6	9.16	3.05	3.08	5	3	3	2.0E-08	2.5E-09	1.5E+03	3.4E+02
LOC 5-7	26.10	8.71	8.75	13	9	9	5.9E-08	7.3E-09	4.4E+03	9.7E+02
LOC 6-2	3.10	1.03	1.04	2	<2	<2	6.7E-09	8.3E-10	5.0E+02	1.1E+02
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

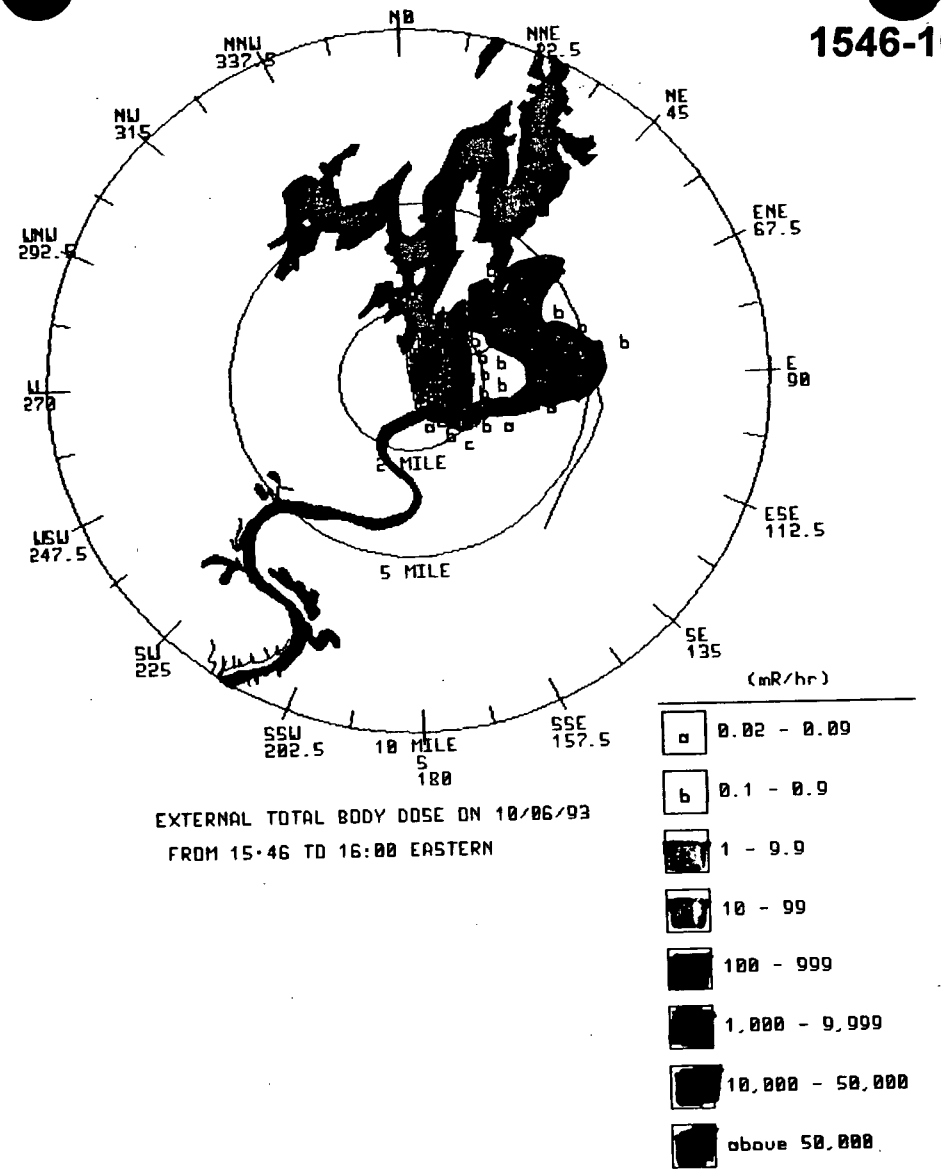
ENVIRONMENTAL MONITORING DATA

1546-1600

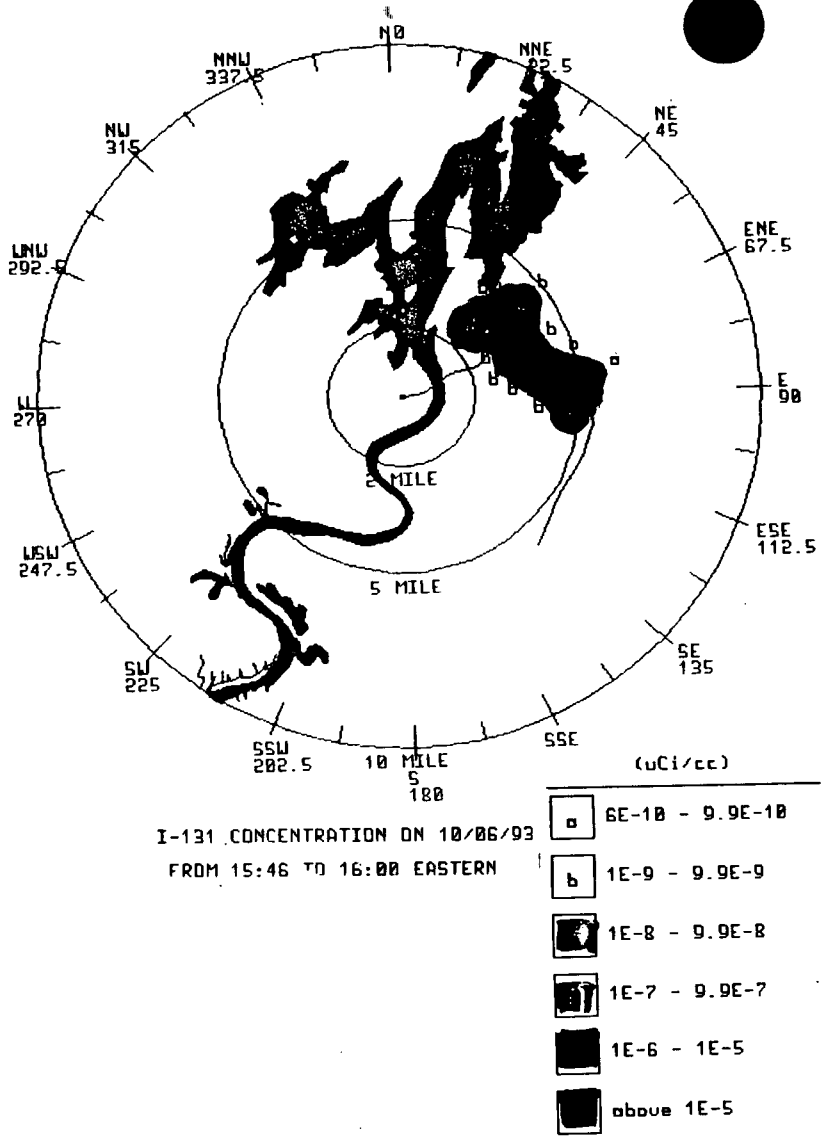
Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.40	3.48	6.84	5	3	7	<6E-10	<6E-10	4.1E+01	< 30
2.50	NE /053	182.00	60.60	64.60	91	61	65	2.9E-07	3.6E-08	2.2E+04	4.8E+03
3.00	NE /045	432.00	144.00	148.00	216	144	148	7.9E-07	9.8E-08	5.8E+04	1.3E+04
3.50	NE /045	124.00	41.50	41.80	62	42	42	2.4E-07	3.0E-08	1.8E+04	4.0E+03
3.75	NE /053	471.00	157.00	158.00	235	157	158	9.1E-07	1.1E-07	6.8E+04	1.5E+04
4.00	ENE/060	191.00	63.70	64.10	98	64	64	3.8E-07	4.7E-08	2.8E+04	6.2E+03
4.50	E /083	86.10	28.70	28.90	43	29	29	1.9E-07	2.4E-08	1.4E+04	3.1E+03
5.00	E /090	24.90	8.30	8.34	13	8	8	7.3E-07	9.1E-08	5.4E+04	1.2E+04
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.68	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1546-1600



EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 15:46 TO 16:00 EASTERN



I-131 CONCENTRATION ON 10/06/93
FROM 15:46 TO 16:00 EASTERN

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 2-4	1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2	0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3	8.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4	9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5	53.70	17.90	19.30	27	18	19	8.8E-08	1.1E-08	6.5E+03	1.4E+03
LOC 3-6	0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7	0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1	1.23	0.41	0.46	<2	<2	<2	2.1E-09	<6E-10	1.6E+02	3.5E+01
LOC 4-2	42.20	14.10	15.10	21	14	15	7.0E-08	8.7E-09	5.2E+03	1.2E+03
LOC 4-3	62.80	20.90	21.40	31	21	21	1.2E-07	1.5E-08	9.2E+03	2.0E+03
LOC 4-4	62.80	20.90	21.40	31	21	21	1.2E-07	1.5E-08	9.2E+03	2.0E+03
LOC 4-5	30.20	10.10	10.40	15	10	10	6.3E-08	7.8E-09	4.7E+03	1.0E+03
LOC 4-6	4.00	1.33	1.62	2	<2	2	6.9E-09	8.5E-10	5.1E+02	1.1E+02
LOC 4-7	1.21	0.40	0.68	<2	<2	<2	8.4E-10	<6E-10	6.2E+01	< 30
LOC 4-8	1.12	0.37	0.67	<2	<2	<2	<6E-10	<6E-10	3.9E+01	< 30
LOC 4-9	0.43	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-4	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	47.50	15.80	15.90	24	16	16	1.1E-07	1.4E-08	8.2E+03	1.8E+03
LOC 5-6	47.20	15.70	15.90	24	16	16	1.1E-07	1.4E-08	8.2E+03	1.8E+03
LOC 5-7	8.37	2.79	2.85	4	3	3	1.8E-08	2.3E-09	1.4E+03	3.0E+02
LOC 6-1	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	28.60	9.55	9.60	14	10	10	6.8E-08	8.5E-09	5.1E+03	1.1E+03
LOC 7-7	0.04	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30

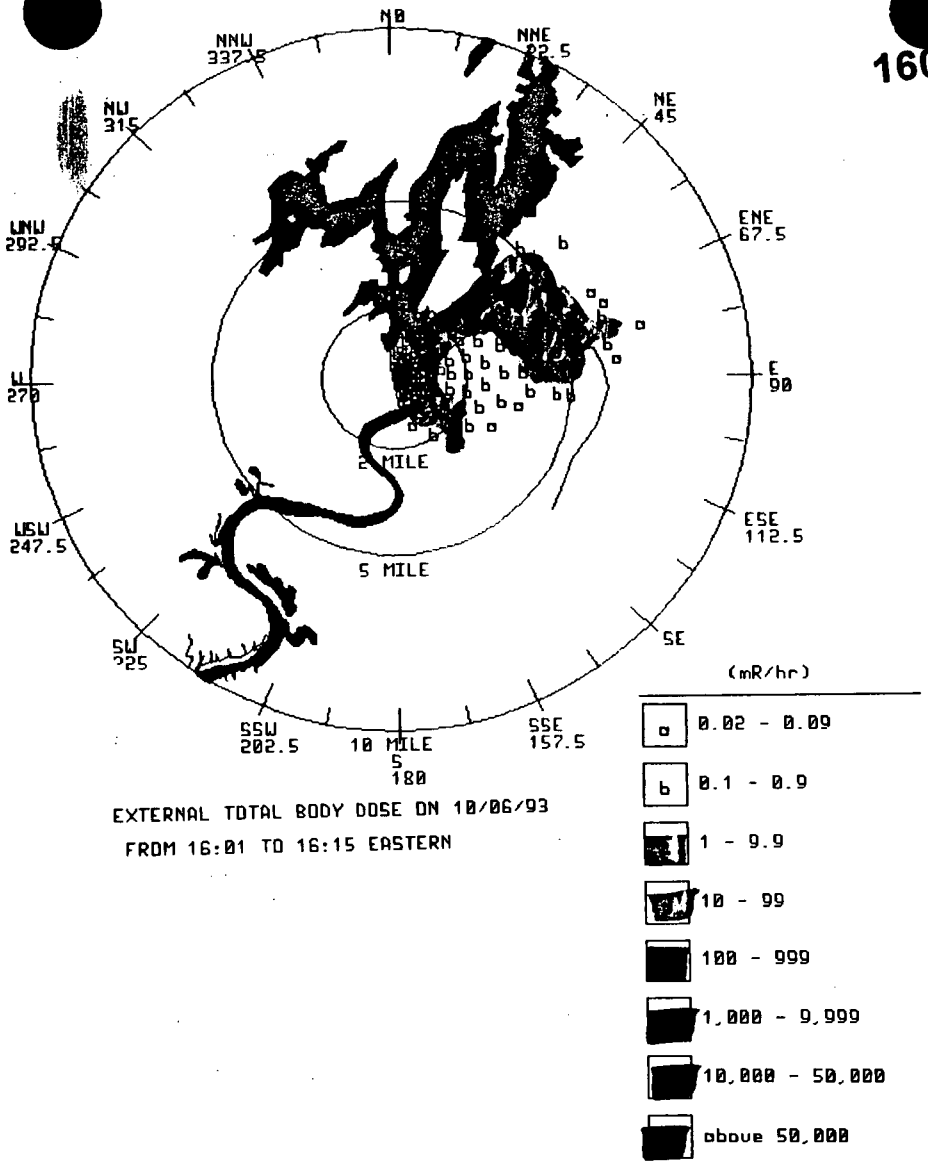
ENVIRONMENTAL MONITORING DATA

1601-1615

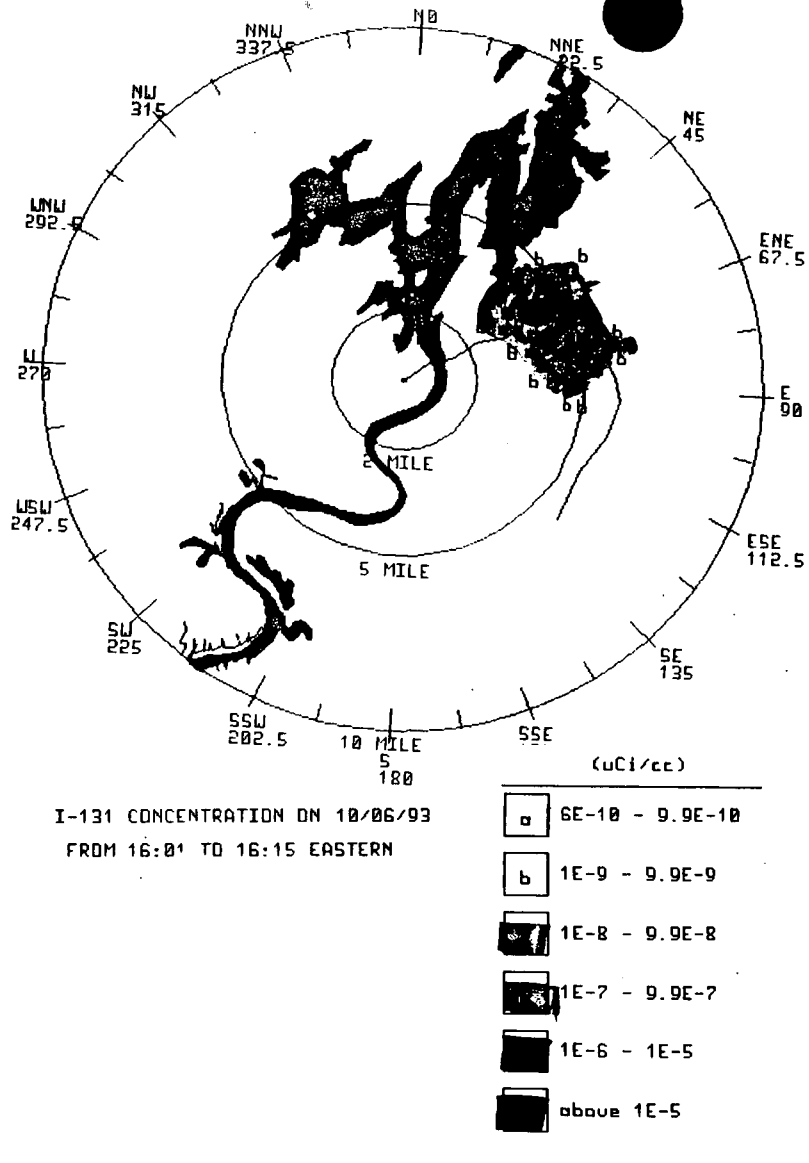
Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	12.10	4.05	7.96	6	4	8	7.3E-10	<6E-10	5.4E+01	< 30
3.00	ENE/060	72.30	24.10	25.00	36	24	25	1.2E-07	1.5E-08	9.0E+03	2.0E+03
3.50	ENE/060	286.00	95.20	96.70	143	95	97	5.3E-07	6.5E-08	3.9E+04	8.6E+03
3.75	NE /053	343.00	114.00	116.00	171	114	116	6.6E-07	8.2E-08	4.9E+04	1.1E+04
4.00	ENE/060	588.00	195.00	197.00	293	195	197	1.1E-06	1.4E-07	8.3E+04	1.8E+04
4.50	NE /053	358.00	119.00	120.00	179	119	120	7.5E-07	9.2E-08	5.5E+04	1.2E+04
5.00	ENE/060	172.00	57.30	57.70	86	57	58	3.6E-07	4.5E-08	2.7E+04	5.9E+03
6.00	NE /053	2.09	0.70	0.70	<2	<2	<2	1.2E-07	1.5E-08	9.2E+03	2.0E+03
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
All other locations			<0.02			<2		<6E-10	<6E-10	<35	<30

1601-1615



EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 16:01 TO 16:15 EASTERN



I-131 CONCENTRATION ON 10/06/93
FROM 16:01 TO 16:15 EASTERN

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 2-3	2.59	0.88	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4	1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2	0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3	6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4	9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5	4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6	0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7	0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1	2.67	0.89	0.95	<2	<2	<2	4.6E-09	<6E-10	3.4E+02	7.6E+01
LOC 4-2	3.10	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3	1.50	0.50	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4	1.50	0.50	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5	1.15	0.38	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6	0.86	0.29	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-4	0.07	0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	18.30	6.10	6.28	9	6	6	4.3E-08	5.3E-09	3.2E+03	7.0E+02
LOC 5-6	14.80	4.93	5.11	7	5	5	3.4E-08	4.2E-09	2.5E+03	5.6E+02
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1616-1630

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10 NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25 NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50 NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62 NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75 NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00 NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25 SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50 NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00 NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50 NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00 NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50 ENE/060	5.11	1.70	3.18	3	2	3	1.5E-09	<6E-10	1.1E+02	< 30
3.75 NE /053	51.80	17.30	19.50	26	17	20	9.1E-08	1.1E-08	6.8E+03	1.5E+03
4.00 NE /045	150.00	50.00	50.70	75	50	51	3.1E-07	3.9E-08	2.3E+04	5.1E+03
4.50 NE /053	303.00	101.00	103.00	151	101	103	6.1E-07	7.6E-08	4.5E+04	1.0E+04
5.00 NE /053	359.00	120.00	121.00	179	120	121	7.5E-07	9.3E-08	5.6E+04	1.2E+04
6.00 ENE/060	120.00	40.10	40.40	60	40	40	2.7E-07	3.3E-08	2.0E+04	4.4E+03
6.25 ENE/056	105.00	35.00	35.20	53	35	35	2.8E-07	3.5E-08	2.1E+04	4.6E+03
LOC 1-1	11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2	6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

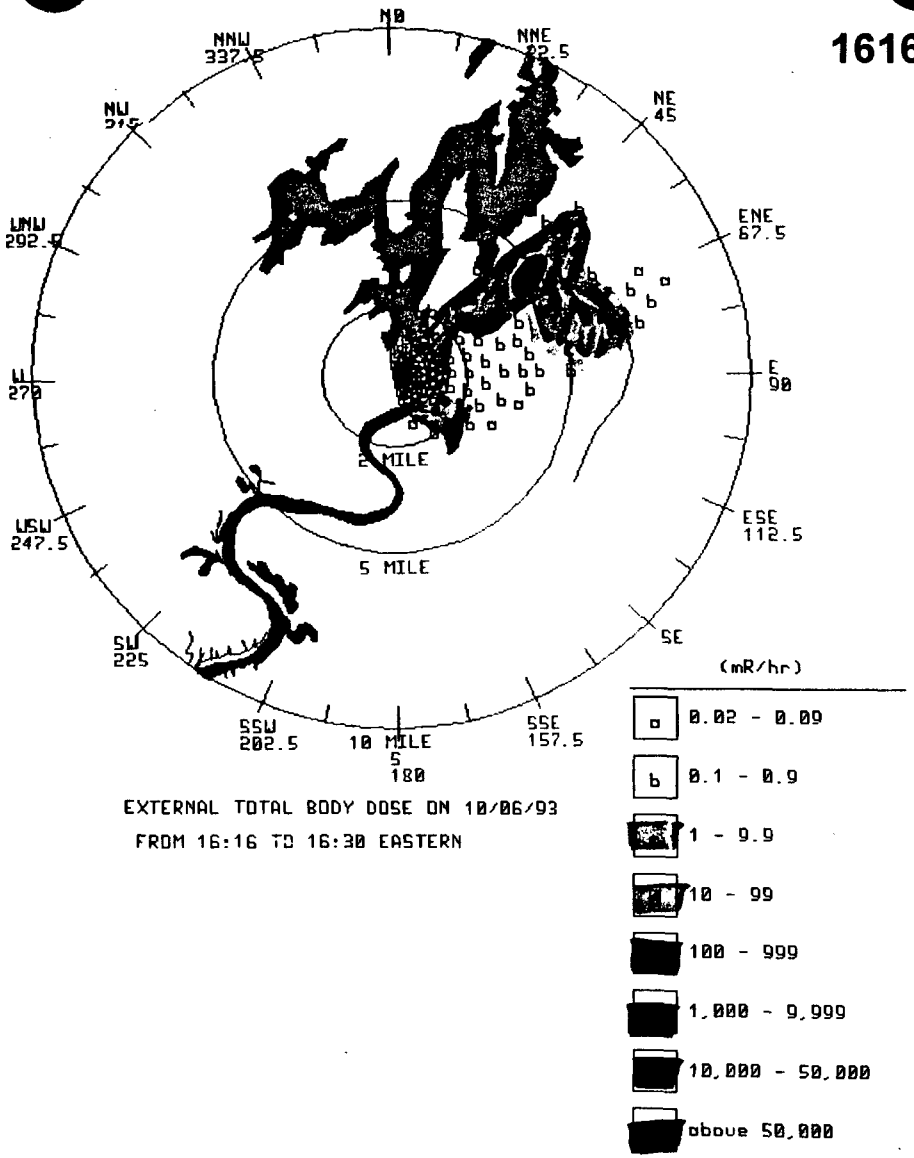
ENVIRONMENTAL MONITORING DATA

1616-1630

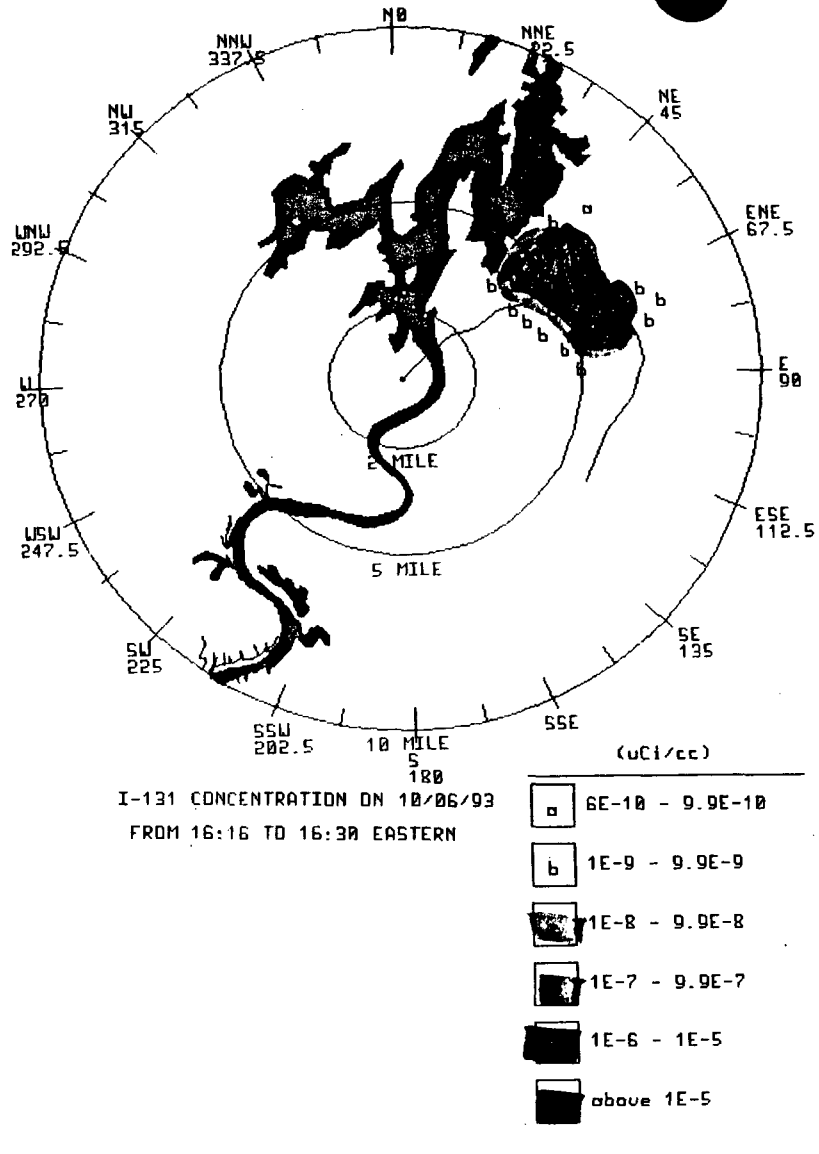
Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) 1 meter Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) 1 meter Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 5-7	0.30	0.10	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	16.90	5.62	5.67	8	6	6	3.6E-08	4.5E-09	2.7E+03	6.0E+02
LOC 6-2	18.60	6.19	6.28	9	6	6	4.4E-08	5.4E-09	3.3E+03	7.2E+02
LOC 7-3	4.06	1.35	1.37	2	<2	<2	9.2E-09	1.1E-09	6.8E+02	1.5E+02
LOC 7-4	6.59	2.20	2.22	3	2	2	1.5E-08	1.8E-09	1.1E+03	2.4E+02
LOC 7-5	127.00	42.20	42.50	63	42	43	2.8E-07	3.5E-08	2.1E+04	4.6E+03
LOC 7-6	0.13	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-7	5.30	1.77	1.78	3	2	2	1.3E-08	1.6E-09	9.8E+02	2.2E+02
LOC 7-8	0.02	<0.02	<0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

1616-1630



EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 16:16 TO 16:30 EASTERN



I-131 CONCENTRATION ON 10/06/93
FROM 16:16 TO 16:30 EASTERN

Revised 9/9/93

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 1-1	11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2	6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3	2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4	1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2	0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3	6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4	9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5	4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6	0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7	0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1	0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2	3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3	1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4	1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5	1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6	0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-4	0.38	0.13	0.13	<2	<2	<2	7.4E-10	<6E-10	5.5E+01	< 30
All other locations	<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1631-1645

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10 NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25 NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50 NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62 NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75 NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00 NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25 SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50 NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00 NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50 NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00 NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50 ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75 NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00 ENE/060	5.75	1.92	3.82	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50 NE /053	20.80	6.95	8.70	10	7	9	3.3E-08	4.0E-09	2.4E+03	5.4E+02
5.00 NE /053	181.00	60.20	61.70	90	60	62	3.7E-07	4.6E-08	2.7E+04	6.1E+03
6.00 NE /053	176.00	58.60	59.20	88	59	59	3.9E-07	4.8E-08	2.9E+04	6.3E+03
6.25 NE /049	237.00	79.10	79.80	119	79	80	5.3E-07	6.6E-08	4.0E+04	8.8E+03
7.00 NE /049	201.00	67.10	67.70	101	67	68	4.6E-07	5.7E-08	3.4E+04	7.6E+03
7.50 NE /053	55.40	18.50	18.60	28	19	19	4.7E-07	5.8E-08	3.5E+04	7.7E+03
All other locations	<0.02			<2			<6E-10	<6E-10	<35	<30

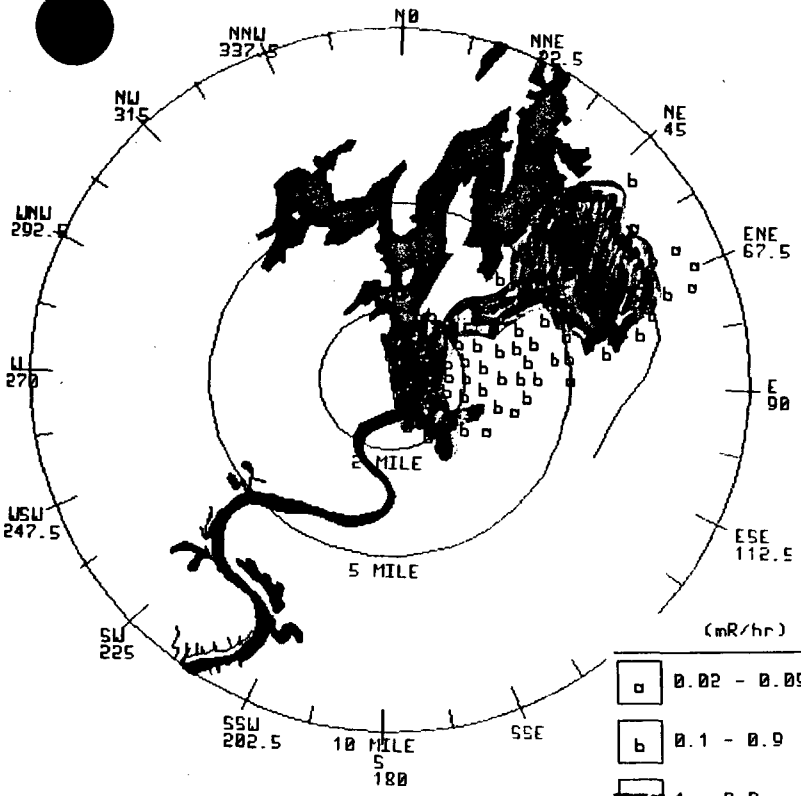
ENVIRONMENTAL MONITORING DATA

1631-1645

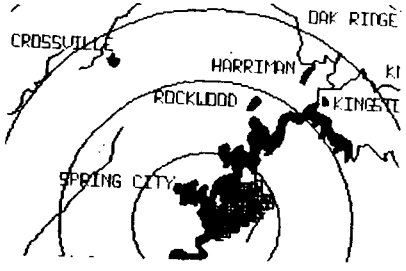
Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 5-5	0.70	0.23	0.41	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.64	0.21	0.39	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	143.00	47.60	48.00	71	48	48	3.1E-07	3.8E-08	2.3E+04	5.1E+03
LOC 6-2	0.77	0.26	0.35	<2	<2	<2	1.2E-09	<6E-10	9.1E+01	< 30
LOC 7-2	1.02	0.34	0.34	<2	<2	<2	2.3E-09	<6E-10	1.7E+02	3.7E+01
LOC 7-3	208.00	69.50	70.00	104	70	70	4.7E-07	5.8E-08	3.5E+04	7.7E+03
LOC 7-4	158.00	52.70	53.10	79	53	53	3.6E-07	4.4E-08	2.7E+04	5.9E+03
LOC 7-5	81.70	27.20	27.80	41	27	28	1.9E-07	2.4E-08	1.4E+04	3.2E+03
LOC 7-6	68.70	22.90	23.10	34	23	23	1.6E-07	2.0E-08	1.2E+04	2.[illegible]
LOC 7-7	27.10	9.03	9.10	14	9	9	6.9E-08	8.6E-09	5.1E+03	1.1E+03
LOC 8-4	0.99	0.33	0.33	<2	<2	<2	2.3E-09	<6E-10	1.7E+02	3.8E+01
LOC 8-5	0.28	0.10	0.10	<2	<2	<2	6.8E-10	<6E-10	5.1E+01	< 30
LOC 8-6	76.80	25.60	25.80	38	26	26	1.8E-07	2.2E-08	1.3E+04	3.0E+03
LOC 8-7	88.80	29.60	29.80	44	30	30	2.1E-07	2.6E-08	1.6E+04	3.4E+03
LOC 9-5	0.13	0.04	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

1631-1645

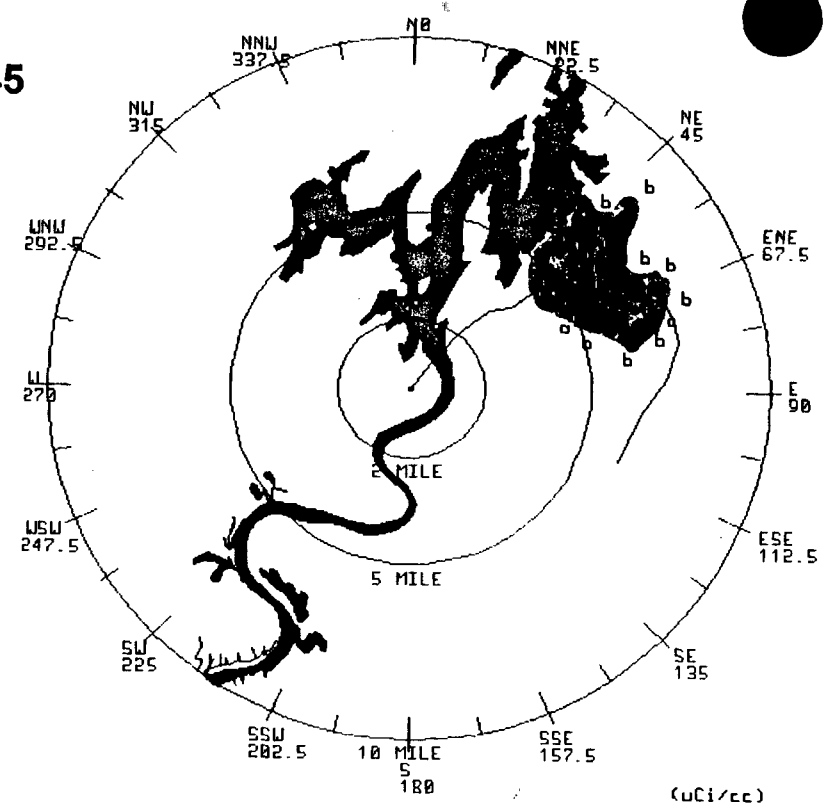


EXTERNAL TOTAL BODY DOSE ON 10/06/93
FROM 16:31 TO 16:45 EASTERN

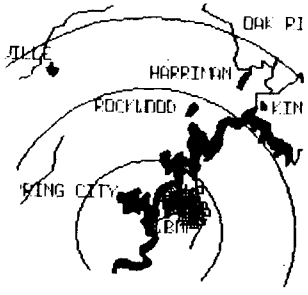


(mR/hr)

- a 0.02 - 0.09
- b 0.1 - 0.9
- 1 - 9.9
- 10 - 99
- 100 - 999
- 1,000 - 9,999
- 10,000 - 50,000
- above 50,000



I-131 CONCENTRATION ON 10/06/93
FROM 16:31 TO 16:45 EASTERN



(uCi/cc)

- a 6E-10 - 9.9E-10
- b 1E-9 - 9.9E-9
- 1E-8 - 9.9E-8
- 1E-7 - 9.9E-7
- 1E-6 - 1E-5
- above 1E-5

Revised 9/9/93

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
8.00	NE /049	134.00	44.80	45.20	67	45	45	3.3E-07	4.1E-08	2.5E+04	5.5E+03
8.75	ENE/058	61.00	20.30	20.50	31	20	21	3.8E-07	4.7E-08	2.8E+04	6.2E+03
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2		0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3		6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4		9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5		4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6		0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7		0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1		0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2		3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5		1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6		0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-7		0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8		0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1646-1700

Plant : WBNP

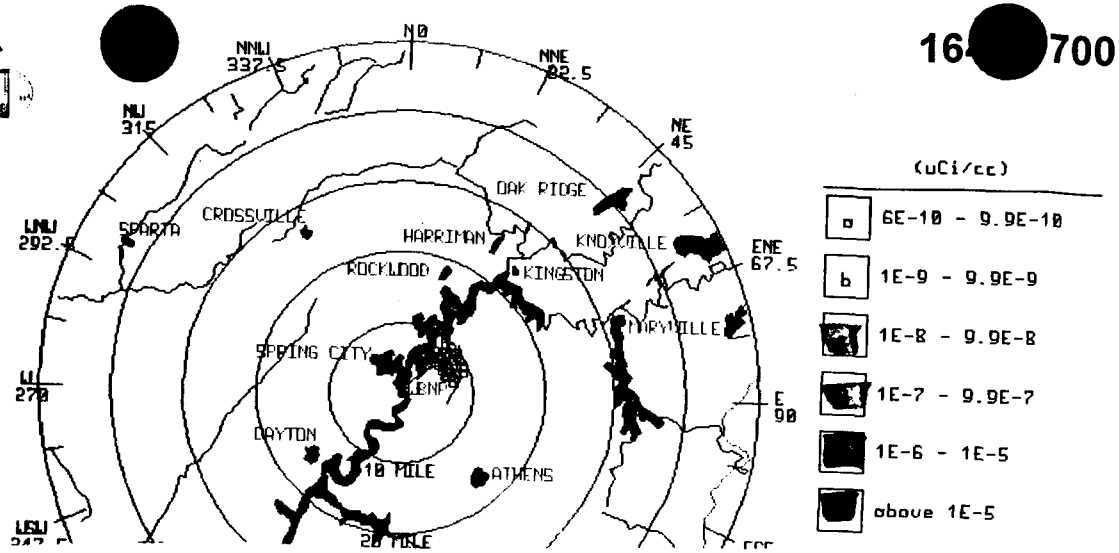
Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00	NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50	ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75	NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00	ENE/060	5.70	1.90	3.80	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50	NE /053	5.28	1.76	3.52	3	2	4	<6E-10	<6E-10	< 35	< 30
5.00	NE /053	4.79	1.60	3.13	2	2	3	<6E-10	<6E-10	< 35	< 30
6.00	NE /045	67.80	22.60	22.90	34	23	23	1.5E-07	1.9E-08	1.1E+04	2.5E+03
6.25	NE /049	147.00	48.80	49.90	73	49	50	3.2E-07	4.0E-08	2.4E+04	5.3E+03
7.00	NE /049	147.00	49.00	50.00	74	49	50	3.4E-07	4.2E-08	2.5E+04	5.5E+03
7.50	NE /053	113.00	37.50	38.00	56	38	38	2.7E-07	3.4E-08	2.0E+04	4.5E+03
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

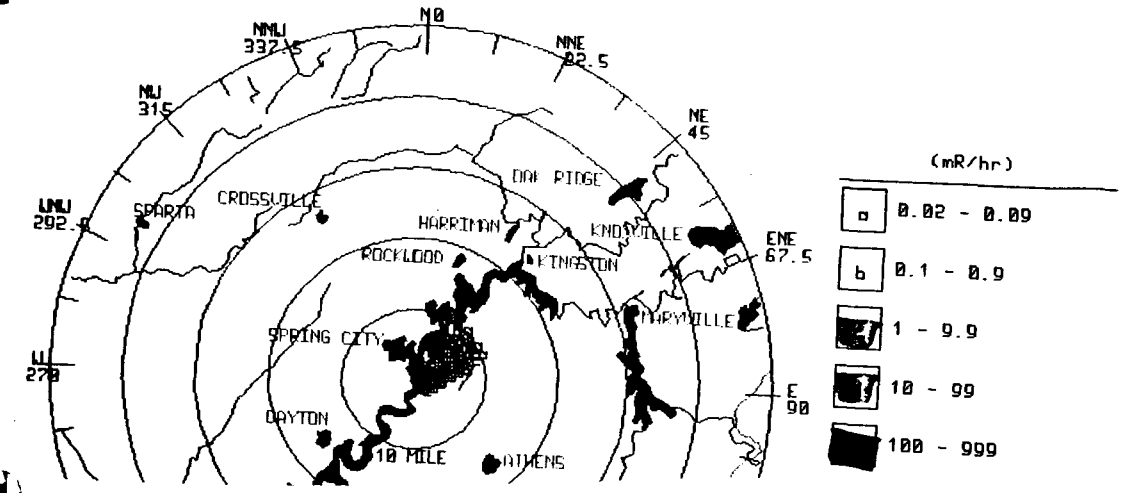
ENVIRONMENTAL MONITORING DATA

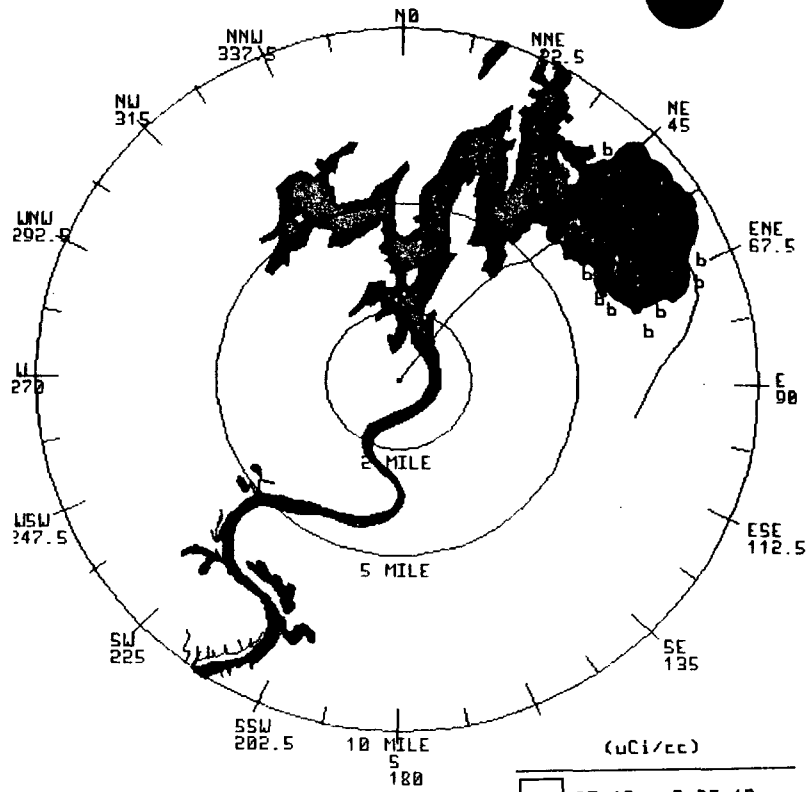
1646-1700

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) 1 meter Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) 1 meter Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	27.60	9.22	9.71	14	9	10	6.2E-08	7.7E-09	4.6E+03	1.0E+03
LOC 6-2	0.27	0.09	0.18	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-2	2.92	0.97	0.98	<2	<2	<2	6.1E-09	7.5E-10	4.5E+02	1.0E+02
LOC 7-3	119.00	39.50	40.40	59	40	40	2.6E-07	3.2E-08	1.9E+04	4.3E+03
LOC 7-4	168.00	56.00	56.90	84	56	57	3.8E-07	4.7E-08	2.8E+04	6.2E+03
LOC 7-5	7.68	2.56	3.14	4	3	3	1.5E-08	1.9E-09	1.1E+03	2.5E+02
LOC 7-6	33.50	11.20	11.50	17	11	12	8.1E-08	1.0E-08	6.0E+03	1.3E+03
LOC 7-7	3.10	1.03	1.11	2	<2	<2	7.6E-09	9.4E-10	5.7E+02	1.3E+02
LOC 8-3	0.62	0.20	0.21	<2	<2	<2	1.5E-09	<6E-10	1.1E+02	< 30
LOC 8-4	4.52	1.51	1.52	2	2	2	1.0E-08	1.3E-09	7.7E+02	1.7E+02
LOC 8-5	55.50	18.50	18.70	28	19	19	1.3E-07	1.7E-08	1.0E+04	2.2E+03
LOC 8-6	63.90	21.30	21.70	32	21	22	1.6E-07	2.0E-08	1.2E+04	2.7E+03
LOC 8-7	52.80	17.60	18.00	26	18	18	1.3E-07	1.7E-08	1.0E+04	2.2E+03
LOC 9-5	30.30	10.10	10.20	15	10	10	7.5E-08	9.3E-09	5.6E+03	1.2E+03
LOC 10-4	0.35	0.12	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

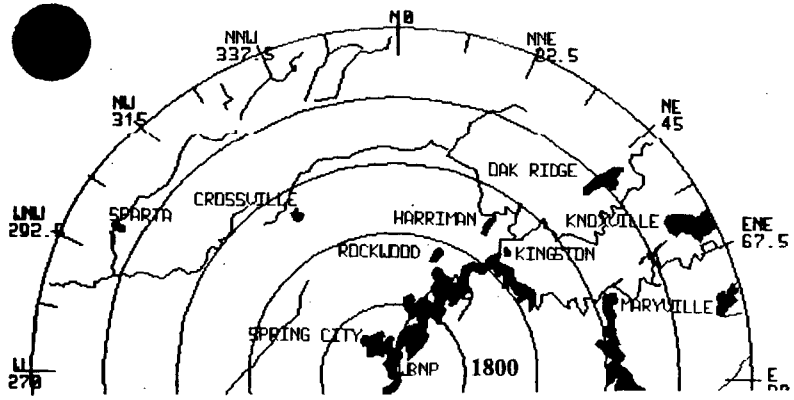


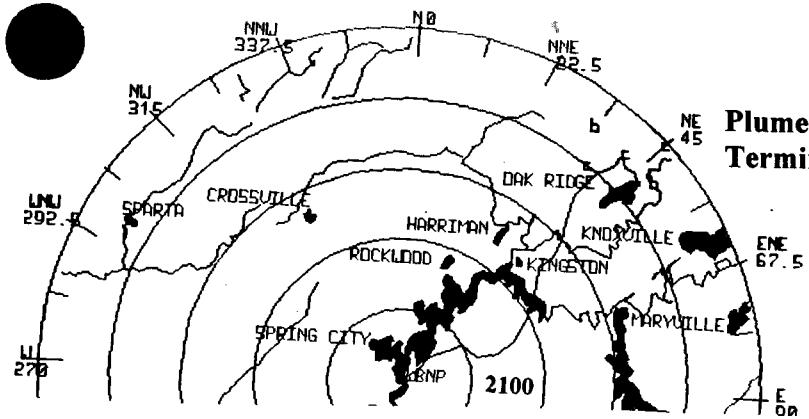


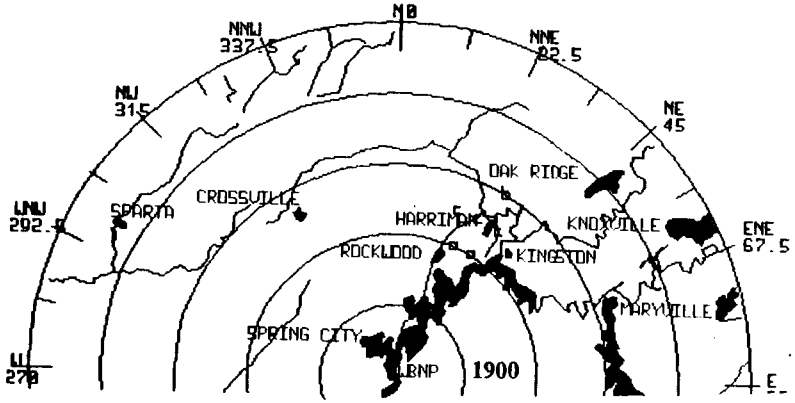


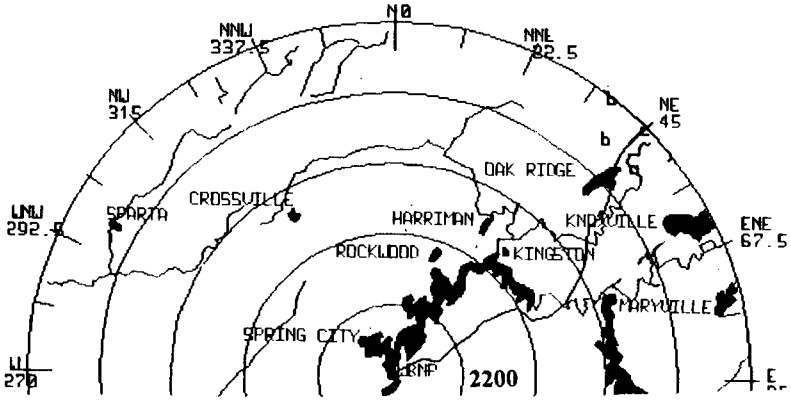
I-131 CONCENTRATION ON 10/06/93
FROM 16:46 TO 17:00 EASTERN

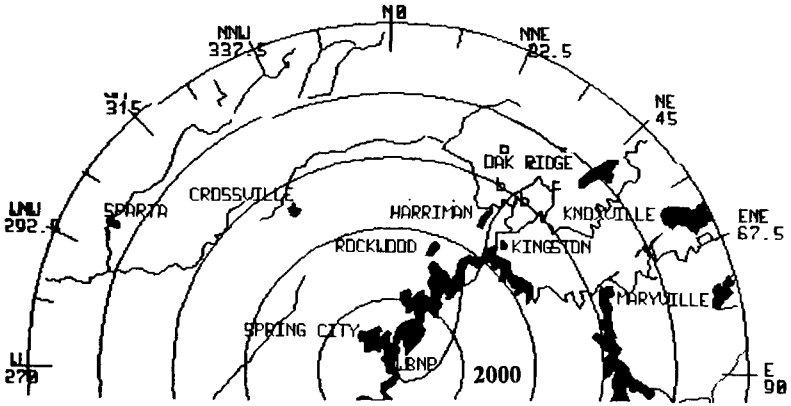
Plume Transport after Termination of Exercise

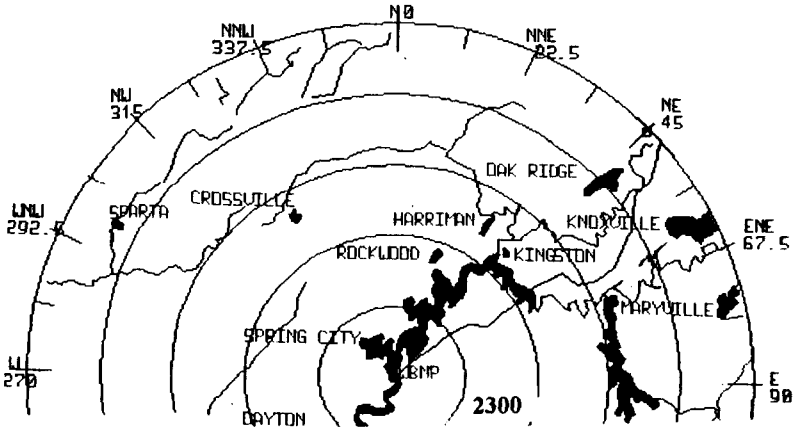












ENVIRONMENTAL MONITORING DATA

Plant : NBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 10-3	0.50	0.17	0.34	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1746-1800

Plant : NBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	1.47	0.49	0.98	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	0.27	0.09	0.18	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-2	0.04	<0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-3	2.74	0.91	1.83	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-4	2.72	0.91	1.81	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-5	1.73	0.58	1.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-6	0.90	0.30	0.60	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-7	0.24	0.08	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-3	0.37	0.13	0.25	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-4	0.06	<0.02	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-5	1.42	0.47	0.95	<2	<2	<2	<6E-10	[illegible]	< 35	< 30
LOC 8-6	1.41	0.47	0.94	[illegible]	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-7	1.37	0.46	0.91	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 9-5	0.53	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
8.00	NE /049	2.09	0.70	1.39	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
8.75	NE /049	1.08	0.36	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
9.00	NE /045	1.45	0.48	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
10.00	NE /045	1.63	0.55	1.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2		0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3		6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4		9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5		4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6		0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7		0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1		0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2		3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5		1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6		0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1746-1800

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00	NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50	ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75	NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00	ENE/060	5.70	1.90	3.80	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50	NE /053	5.28	1.76	3.52	3	2	4	<6E-10	<6E-10	< 35	< 30
5.00	NE /053	4.59	1.53	3.06	2	2	3	<6E-10	<6E-10	< 35	< 30
6.00	NE /053	2.03	0.68	1.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	NE /049	3.22	1.07	2.15	2	<2	2	<6E-10	<6E-10	< 35	< 30
7.00	NE /049	2.93	0.98	1.96	<2	<2	2	<6E-10	<6E-10	< 35	< 30
7.50	NE /053	1.80	0.60	1.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 10-3	0.50	0.17	0.34	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1846-1900

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	1.47	0.49	0.98	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	0.27	0.09	0.18	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-2	0.04	<0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-3	2.74	0.91	1.83	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-4	2.72	0.91	1.81	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-5	1.73	0.58	1.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-6	0.90	0.30	0.60	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-7	0.24	0.08	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-3	0.37	0.13	0.25	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-4	0.06	<0.02	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-5	1.42	0.47	0.95	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-6	1.41	0.47	0.94	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-7	1.37	0.46	0.91	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 9-5	0.53	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
8.00	NE /049	2.09	0.70	1.39	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
8.75	NE /049	1.08	0.36	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
9.00	NE /045	1.45	0.48	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
10.00	NE /045	1.63	0.55	1.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2		0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3		6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4		9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5		4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6		0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7		0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1		0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2		3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5		1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6		0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1846-1900

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00	NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50	ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75	NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00	ENE/060	5.70	1.90	3.80	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50	NE /053	5.28	1.76	3.52	3	2	4	<6E-10	<6E-10	< 35	< 30
5.00	NE /053	4.59	1.53	3.06	2	2	3	<6E-10	<6E-10	< 35	< 30
6.00	NE /053	2.03	0.68	1.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	NE /049	3.22	1.07	2.15	2	<2	2	<6E-10	<6E-10	< 35	< 30
7.00	NE /049	2.93	0.98	1.96	<2	<2	2	<6E-10	<6E-10	< 35	< 30
7.50	NE /053	1.80	0.60	1.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 10-3	0.50	0.17	0.34	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1946-2000

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	1.47	0.49	0.98	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	0.27	0.09	0.18	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-2	0.04	<0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-3	2.74	0.91	1.83	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-4	2.72	0.91	1.81	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-5	1.73	0.58	1.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-6	0.90	0.30	0.60	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-7	0.24	0.08	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-3	0.37	0.13	0.25	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-4	0.06	<0.02	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-5	1.42	0.47	0.95	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-6	1.41	0.47	0.94	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-7	1.37	0.46	0.91	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 9-5	0.53	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
8.00	NE /049	2.09	0.70	1.39	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
8.75	NE /049	1.08	0.38	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
9.00	NE /045	1.45	0.48	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
10.00	NE /045	1.63	0.55	1.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2		0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3		6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4		9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5		4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6		0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7		0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1		0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2		3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5		1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6		0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

1946-2000

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Near Ground Closed	Near Ground Closed	Air Concentrations (uCi/cc) I-131	Particulate	Air Samples (CPM) (15 minute sample) I-131	Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00	NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50	ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75	NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00	ENE/060	5.70	1.90	3.80	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50	NE /053	5.28	1.76	3.52	3	2	4	<6E-10	<6E-10	< 35	< 30
5.00	NE /053	4.59	1.53	3.06	2	2	3	<6E-10	<6E-10	< 35	< 30
6.00	NE /053	2.03	0.68	1.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	NE /049	3.22	1.07	2.15	2	<2	2	<6E-10	<6E-10	< 35	< 30
7.00	NE /049	2.93	0.98	1.96	<2	<2	2	<6E-10	<6E-10	< 35	< 30
7.50	NE /053	1.80	0.60	1.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 10-3	0.50	0.17	0.34	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

2046-2100

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	1.47	0.49	0.98	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	0.27	0.09	0.18	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-2	0.04	<0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-3	2.74	0.91	1.83	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-4	2.72	0.91	1.81	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-5	1.73	0.58	1.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-6	0.90	0.30	0.60	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-7	0.24	0.08	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-3	0.37	0.13	0.25	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-4	0.06	<0.02	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-5	1.42	0.47	0.95	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-6	1.41	0.47	0.94	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-7	1.37	0.46	0.91	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 9-5	0.53	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 10-3	0.50	0.17	0.34	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

2146-2200

Plant : WBNP

Location (Miles) Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
LOC 4-7	0.83	0.28	0.55	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-8	0.88	0.29	0.59	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-9	0.42	0.14	0.28	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-5	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-6	0.52	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 5-7	0.19	0.06	0.13	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-1	1.47	0.49	0.98	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 6-2	0.27	0.09	0.18	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-2	0.04	<0.02	0.02	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-3	2.74	0.91	1.83	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-4	2.72	0.91	1.81	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 7-5	1.73	0.58	1.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-6	0.90	0.30	0.60	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 7-7	0.24	0.08	0.16	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-3	0.37	0.13	0.25	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-4	0.06	<0.02	0.04	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-5	1.42	0.47	0.95	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-6	1.41	0.47	0.94	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 8-7	1.37	0.46	0.91	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 9-5	0.53	0.17	0.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2		<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
8.00	NE /049	2.09	0.70	1.39	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
8.75	NE /049	1.08	0.38	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
9.00	NE /045	1.45	0.48	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
10.00	NE /045	1.63	0.55	1.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2		0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3		6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4		9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5		4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6		0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7		0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1		0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2		3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5		1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6		0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

2046-2100

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00	NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50	ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75	NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00	ENE/060	5.70	1.90	3.80	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50	NE /053	5.28	1.76	3.52	3	2	4	<6E-10	<6E-10	< 35	< 30
5.00	NE /053	4.59	1.53	3.06	2	2	3	<6E-10	<6E-10	< 35	< 30
6.00	NE /053	2.03	0.68	1.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	NE /049	3.22	1.07	2.15	2	<2	2	<6E-10	<6E-10	< 35	< 30
7.00	NE /049	2.93	0.98	1.96	<2	<2	2	<6E-10	<6E-10	< 35	< 30
7.50	NE /053	1.80	0.60	1.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
8.00	NE /049	2.09	0.70	1.39	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
8.75	NE /049	1.08	0.36	0.72	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
9.00	NE /045	1.45	0.48	0.96	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
10.00	NE /045	1.63	0.55	1.09	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 1-1		11.00	3.66	7.33	6	4	7	<6E-10	<6E-10	< 35	< 30
LOC 2-2		6.57	2.19	4.38	3	2	4	<6E-10	<6E-10	< 35	< 30
LOC 2-3		2.59	0.86	1.73	<2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 2-4		1.66	0.55	1.11	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-2		0.22	0.07	0.15	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-3		6.86	2.29	4.57	3	2	5	<6E-10	<6E-10	< 35	< 30
LOC 3-4		9.84	3.28	6.56	5	3	7	<6E-10	<6E-10	< 35	< 30
LOC 3-5		4.29	1.43	2.86	2	<2	3	<6E-10	<6E-10	< 35	< 30
LOC 3-6		0.86	0.29	0.58	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 3-7		0.21	0.07	0.14	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-1		0.18	0.06	0.12	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-2		3.09	1.03	2.06	2	<2	2	<6E-10	<6E-10	< 35	< 30
LOC 4-3		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-4		1.39	0.46	0.92	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-5		1.00	0.33	0.67	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
LOC 4-6		0.86	0.28	0.57	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

ENVIRONMENTAL MONITORING DATA

2146-2200

Plant : WBNP

Location (Miles)	Sector/Degrees	GM Readings (mR/hr) 1 meter Open	GM Readings (mR/hr) Near Ground Closed	GM Readings (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) 1 meter Open	Ion Chamber (mR/hr) Near Ground Closed	Ion Chamber (mR/hr) Near Ground Closed	Air Concentrations (uCi/cc) I-131	Air Concentrations (uCi/cc) Particulate	Air Samples (CPM) (15 minute sample) I-131	Air Samples (CPM) (15 minute sample) Particulate
0.10	NNE/023	801.00	267.00	534.00	400	267	534	<6E-10	<6E-10	< 35	< 30
0.25	NE /045	223.00	74.40	149.00	112	74	149	<6E-10	<6E-10	< 35	< 30
0.50	NNE/023	106.00	35.40	70.70	53	35	71	<6E-10	<6E-10	< 35	< 30
0.62	NNE/030	77.30	25.80	51.60	39	26	52	<6E-10	<6E-10	< 35	< 30
0.75	NE /038	35.80	11.90	23.90	18	12	24	<6E-10	<6E-10	< 35	< 30
1.00	NNE/030	20.70	6.91	13.80	10	7	14	<6E-10	<6E-10	< 35	< 30
1.25	SE /128	17.60	5.88	11.80	9	6	12	<6E-10	<6E-10	< 35	< 30
1.50	NNE/030	14.40	4.80	9.61	7	5	10	<6E-10	<6E-10	< 35	< 30
2.00	NE /045	10.10	3.36	6.73	5	3	7	<6E-10	<6E-10	< 35	< 30
2.50	NE /053	11.70	3.91	7.82	6	4	8	<6E-10	<6E-10	< 35	< 30
3.00	NE /045	6.03	2.01	4.02	3	2	4	<6E-10	<6E-10	< 35	< 30
3.50	ENE/060	4.44	1.48	2.96	2	<2	3	<6E-10	<6E-10	< 35	< 30
3.75	NE /053	6.77	2.26	4.51	3	2	5	<6E-10	<6E-10	< 35	< 30
4.00	ENE/060	5.70	1.90	3.80	3	2	4	<6E-10	<6E-10	< 35	< 30
4.50	NE /053	5.28	1.76	3.52	3	2	4	<6E-10	<6E-10	< 35	< 30
5.00	NE /053	4.59	1.53	3.06	2	2	3	<6E-10	<6E-10	< 35	< 30
6.00	NE /053	2.03	0.68	1.35	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
6.25	NE /049	3.22	1.07	2.15	2	<2	2	<6E-10	<6E-10	< 35	< 30
7.00	NE /049	2.93	0.98	1.96	<2	<2	2	<6E-10	<6E-10	< 35	< 30
7.50	NE /053	1.80	0.60	1.20	<2	<2	<2	<6E-10	<6E-10	< 35	< 30
All other locations		<0.02			<2			<6E-10	<6E-10	<35	<30

OSC Tasks

Developed by: Brush
Task #: 1

OSC Task Description:

Feedwater controller failure resulting in low flow to steam generator #2

Scenario Impact and/or Criticality:

Justification for flow transient, trip, and flow transient is justification for loose part becoming active again

Time Restrictions:

Start: T=0:20
End: Not important
Other:

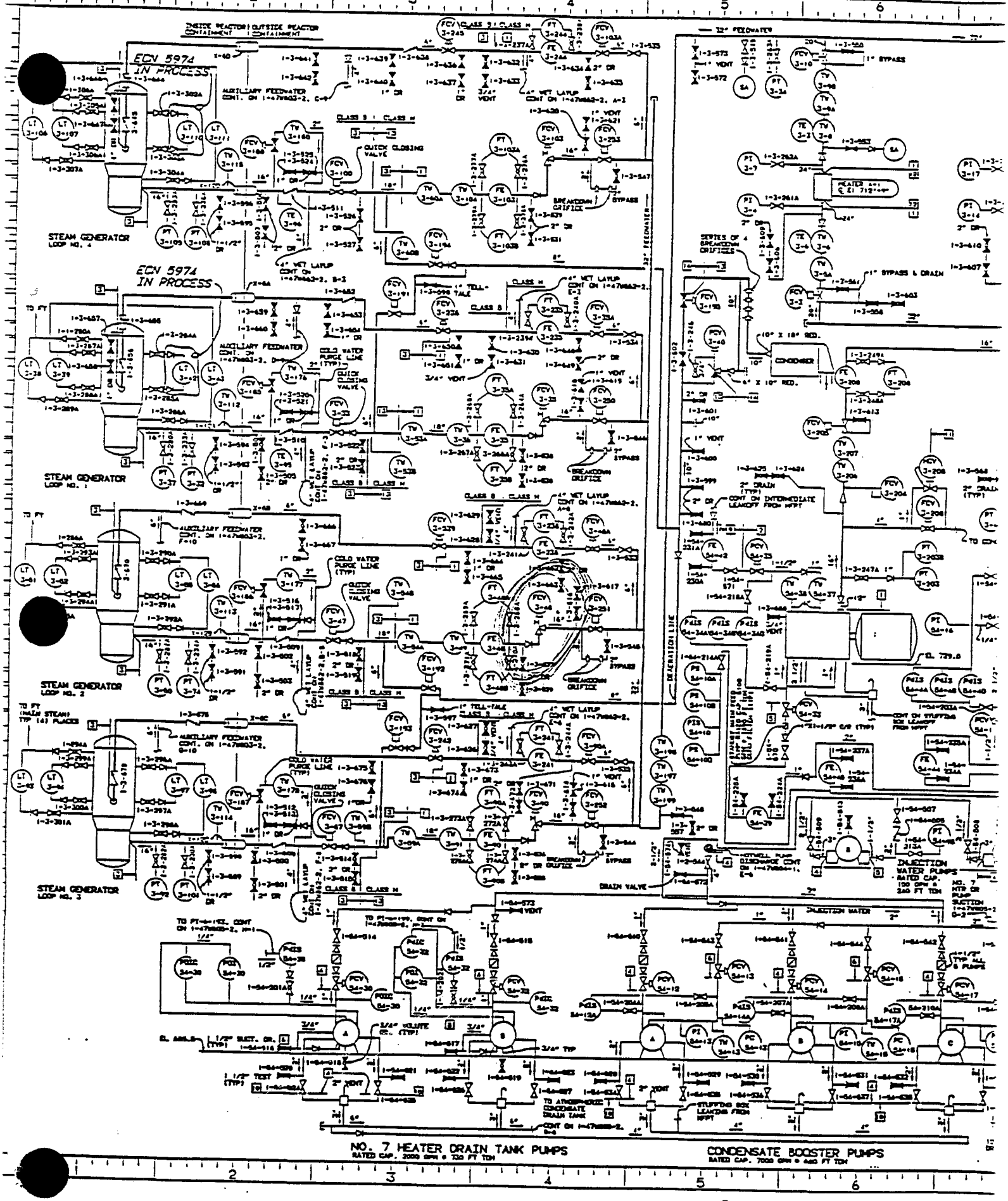
References:

1-45W600-3-11 R0
1-47W610-3-1 R7
1-47W803-1 R5

---------- **Controller Information** ----------

1-FCV-3-48 closes isolating feedwater flow to steam generator #2. Main Control Room valve position indicator lights function normally showing the valve has closed. Valve closure was caused by the open circuit failure blocking diode between wires 2B1 and 2B2 in the Train B SSPS Test Cabinet (1-R-53). When the diode failed open, relay SG2R (1-R-77) deenergized opening the circuit to 1-FCV-3-48B which closed 1-FCV-3-48

1-FCV-3-48 is a pneumatic controlled modulating valve with four normally energized 125Vdc solenoid valves. De-energizing any of the solenoids closes 1-FCV-3-48


ECN 5974 IN PROCESS
ECN 5974 IN PROCESS
STEAM GENERATOR LOOP NO. 4
STEAM GENERATOR LOOP NO. 1
STEAM GENERATOR LOOP NO. 2
STEAM GENERATOR LOOP NO. 3
AUXILIARY FEEDWATER
QUICK CLOSING VALVE
COLD WATER PURGE LINE
BREAKDOWN ORIFICE
CONDENSER
DEAERATION LINE
INJECTION WATER PUMPS
NO. 7 HEATER DRAIN TANK PUMPS
CONDENSATE BOOSTER PUMPS

Developed by: Massey
Task #: 2

OSC Task Description:

Failure of 6.9kV Shutdown Board Breaker for 1A-A CCP

Scenario Impact and/or Criticality:

Provides leak greater than charging pump capacity and eventual need for Safety Injection

Time Restrictions:

Start: T=0:30, upon start of the second 1B-B CCP
End: Unrestricted
Other:

References:

1-45W760-62-1 & 2
GE Instructions GEI-44233 & GEH-1753

---------- **Controller Information** ----------

Centrifugal charging pump 1A-A trips while running normally. The white discrepancy light on MCR switch 1-HS-62-108A-A is on and the MCR annunciator is alarming "MOTOR TRIPOUT 1-M-1 THRU 1-M-6". It is anticipated that a maintenance team will be dispatched to the 6.9kV Shutdown Board 1A-A where the CCP is fed (compartment 18). The team will see no apparent physical damage or burned areas on or near compartment 18 and none on the inside if the cabinet if opened. There are no protective relay targets associated with the CCP being displayed.

If asked by the team, the controller may indicate the state of the relays which are mounted on the cabinet door and are visible from the outside of the panel (compartment 18). These relays have glass covers and their are states can be determined by observation only. These relays are in the following states:

Breaker Anti-Pump Aux Relay -1X	deenergized
Breaker Latching Relay - 30RX	reset position
Breaker Alarm Aux Relay - 30X	energized
All Protective Relays	deenergized & no target

The actual failure is in the Cϕ overcurrent protective relay (device 50/51) protecting the CCP (in compartment 18 on board 1A-A). The lead wires internal to the relay that go from the relay terminals 1 and 3 to the instantaneous contact have been bundled together and due to having been pulled tightly together around a sharp metal edge have shorted together. The resultant effect is that the relay electrically appears to have closed in instantaneous contact (which trips the breaker). The actual contacts are not closed and the target has not been raised.

Any attempt to manually close the breaker will result in the breaker tripping immediately. Any troubleshooting in the 6.9kV circuit will show no fault and no problem. The only way to clear the problem is to remove the Cϕ relay from its drawout case and either replace it with another of the same type and settings, or find and replace/repair the shorted lead wires.

Developed by: Brush
Task #: 3

OSC Task Description:

Failure of Condensate Tank Level Instrument downscale

Scenario Impact and/or Criticality:

Time Restrictions:

Start: T=2:00
End: Not Restricted
Other:

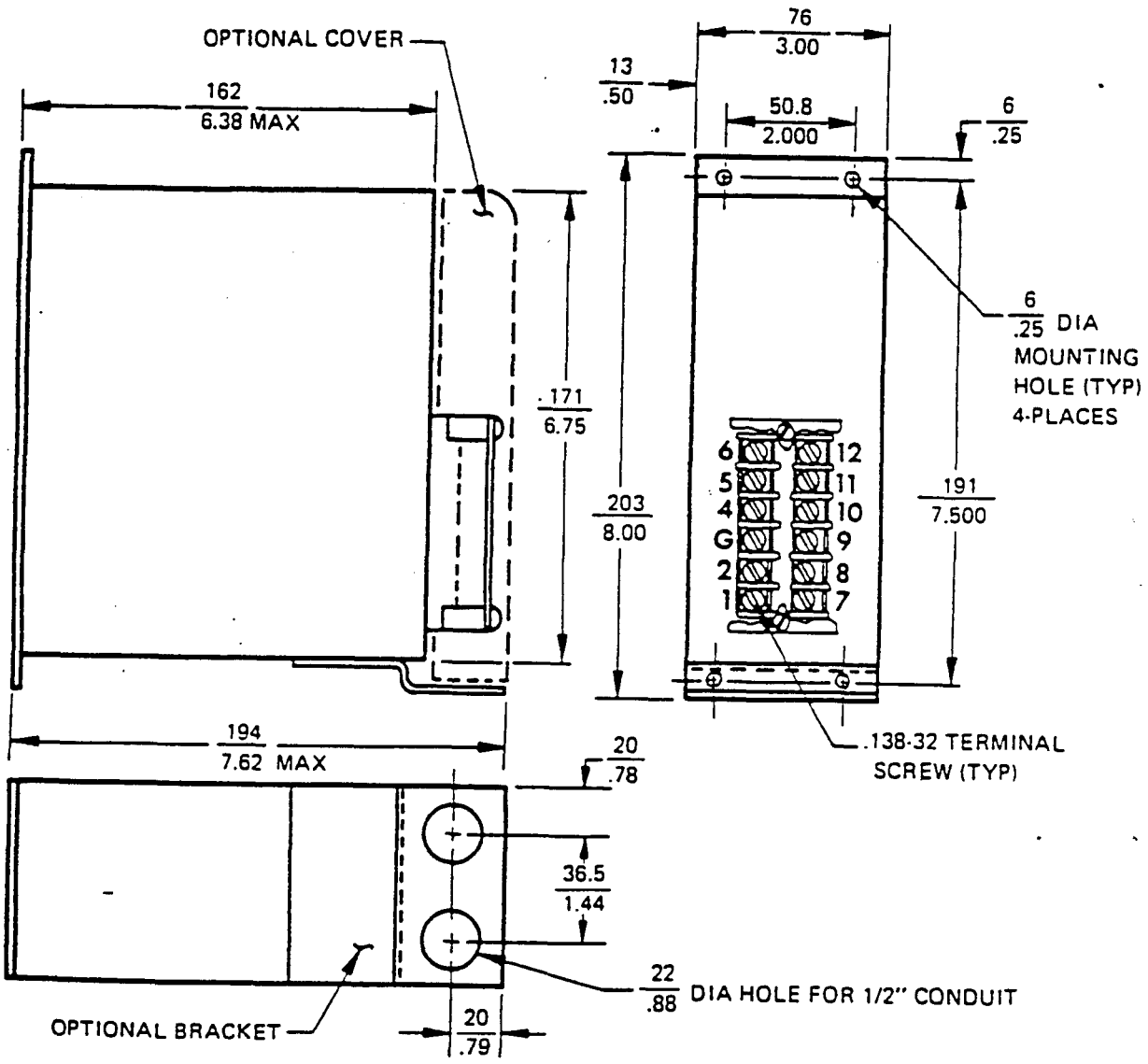
References:

1-47W610-2-3
J76-23A9 sheet 1 (Contract 77K3-87352)
VTM-F01200010-00183
VTD-F012-0020 type 513-A1 pages 3-2, 5-2, and 5-3

---------- **Controller Information** ----------

Water level in the Condensate Storage Tank A is indicated by 0-LI-2-230A (1-M-2), 0-LI-2-230B (0-L-209), 0-LI-2-230B (2-M-2), and the TSC computer (L1004). All four indications show low level because the level transmitter instrument loop power supply (0-PX-2-230) transformer fails open causing the loop current to go to zero. Main Control Room annunciation will also indicate LO-LO level in CST 'A'.

The power supply and level switches are located in 0-R-144. The current loop will indicate zero milliamps and zero volts when tested with a fluke meter.



ELECTRICAL CONNECTIONS			
TERMINAL NO.		TERMINAL NO.	
1	(N) SUPPLY	7	(-) 26.5 VDC
2	(H) SEE RATING PLATE	8	(+) OUTPUT
G	CHASSIS GRND	9	(-) 26.5 VDC
4	SPARE	10	(+) OUTPUT
5	(-) 26.5 VDC	11	(-) 26.5 VDC
6	(+) OUTPUT	12	(+) OUTPUT

Figure 3-1. Mounting Dimensions and Electrical Connections, Model 513-( )( ).

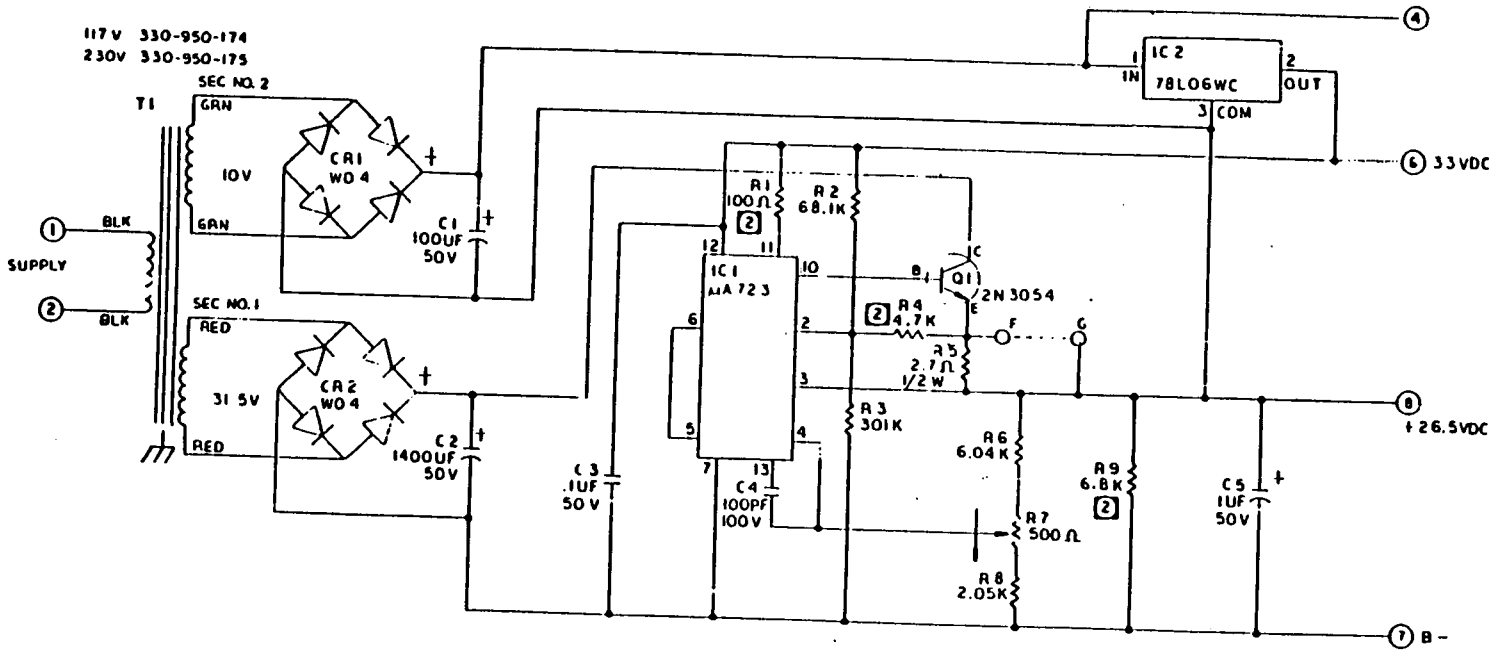
WBN REV 0
WBN PAGE 10

SECTION IV
OPERATION

4.1 CIRCUIT DESCRIPTION (MODEL 513-( )2)

The main power to the instrument is supplied by Secondary No. 1 of transformer T1 (Ref. Figure 4-2). The power is rectified by bridge rectifier CR2 and filtered by capacitor C2. The current flows through series pass transistor Q1 and current sensing resistor R5 to the output. Series pass transistor Q1 is controlled by the precision voltage regulator IC1. The output voltage is sensed through the voltage divider containing resistors R6, R8, and potentiometer R7. Potentiometer R7 is used to adjust the output to 26.5 VDC. Current limiting is controlled by the voltage across sensing resistor R5 applied to pins 2 and 3 of precision voltage regulator IC1. Foldback current limiting is provided by the network comprised of resistors R2, R3, and R4.

Secondary No. 2 of transformer T1, bridge rectifier CR1, capacitor C1, and integrated circuit IC2 form a regulated 6.2 VDC supply. The negative terminal of the d-c supply is connected to the 26.5 VDC output. The positive terminal of the d-c supply provides the power to precision voltage regulator IC1.



2 RESISTORS ARE 1/4 W ± 5% COMP.
1. RESISTORS ARE 1/8 W ± 1% FILM.
NOTES (UNLESS OTHERWISE SPECIFIED)

Figure 4-2. Schematic Diagram for Model 513-( )2.

WBN REV 0
WBN PAGE 14

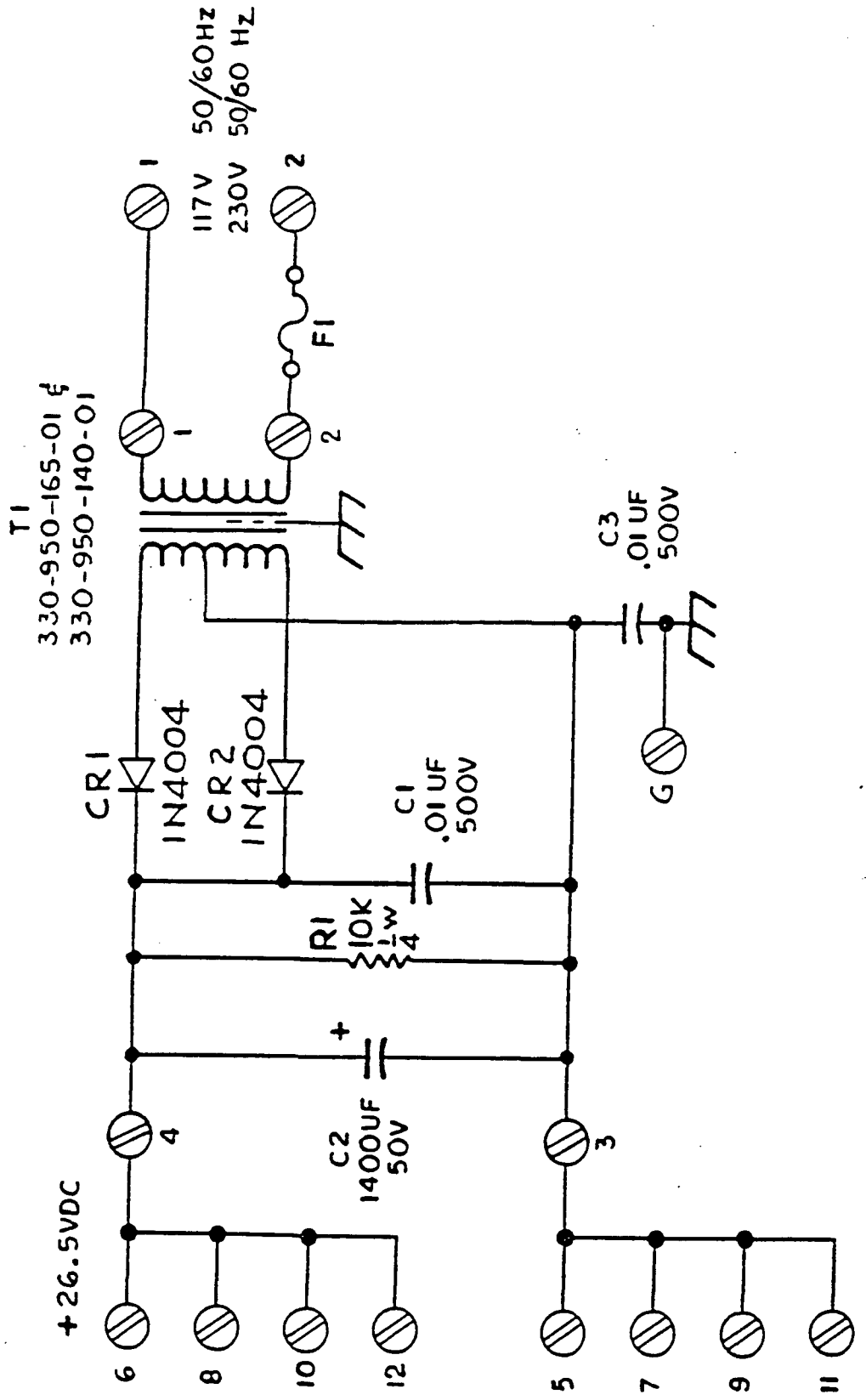


Figure 4-1. Schematic Diagram for Model 513-( )1.

WBN REV 0
WBN PAGE 13

Developed by: Turnbull
Task #: 4

OSC Task Description:

Isolate the failed Steam Generator Safety Valve (1-SFV-1-517)

Scenario Impact and/or Criticality:

Release to the environment, Rapid reactor cooldown

Time Restrictions:

Start: T=1:20
End: After T=5:30
Other: Coordinate with Operations task on safety valve
Consider the use of a mock-up

References:

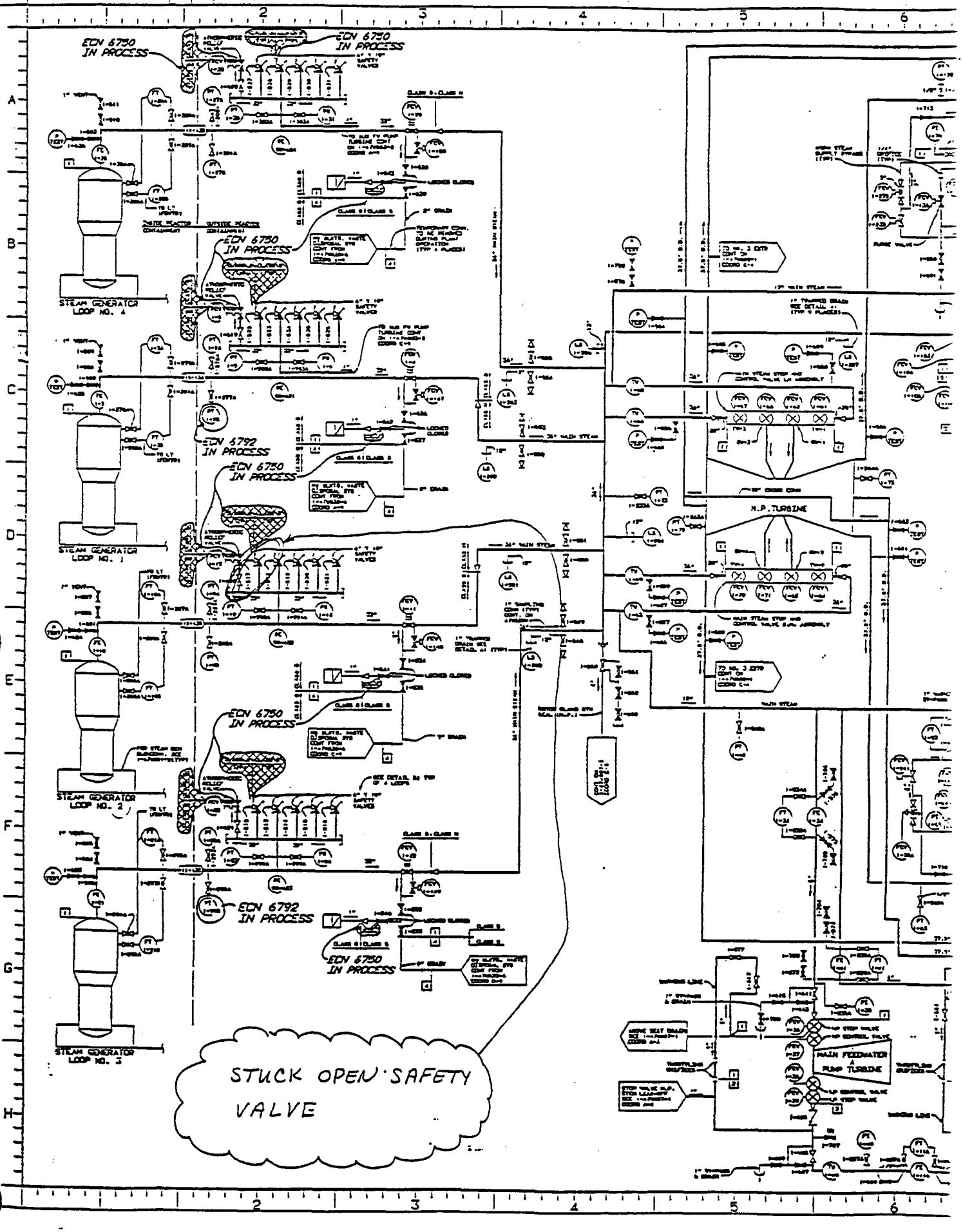
1-47W801-1 R5
VTM-D245-0010
VTD-D245-0020 page 20
VTD-D245-0030 page 8
VTD-D245-0270 page 1
VTD-D245-0450
Type 3787 valve

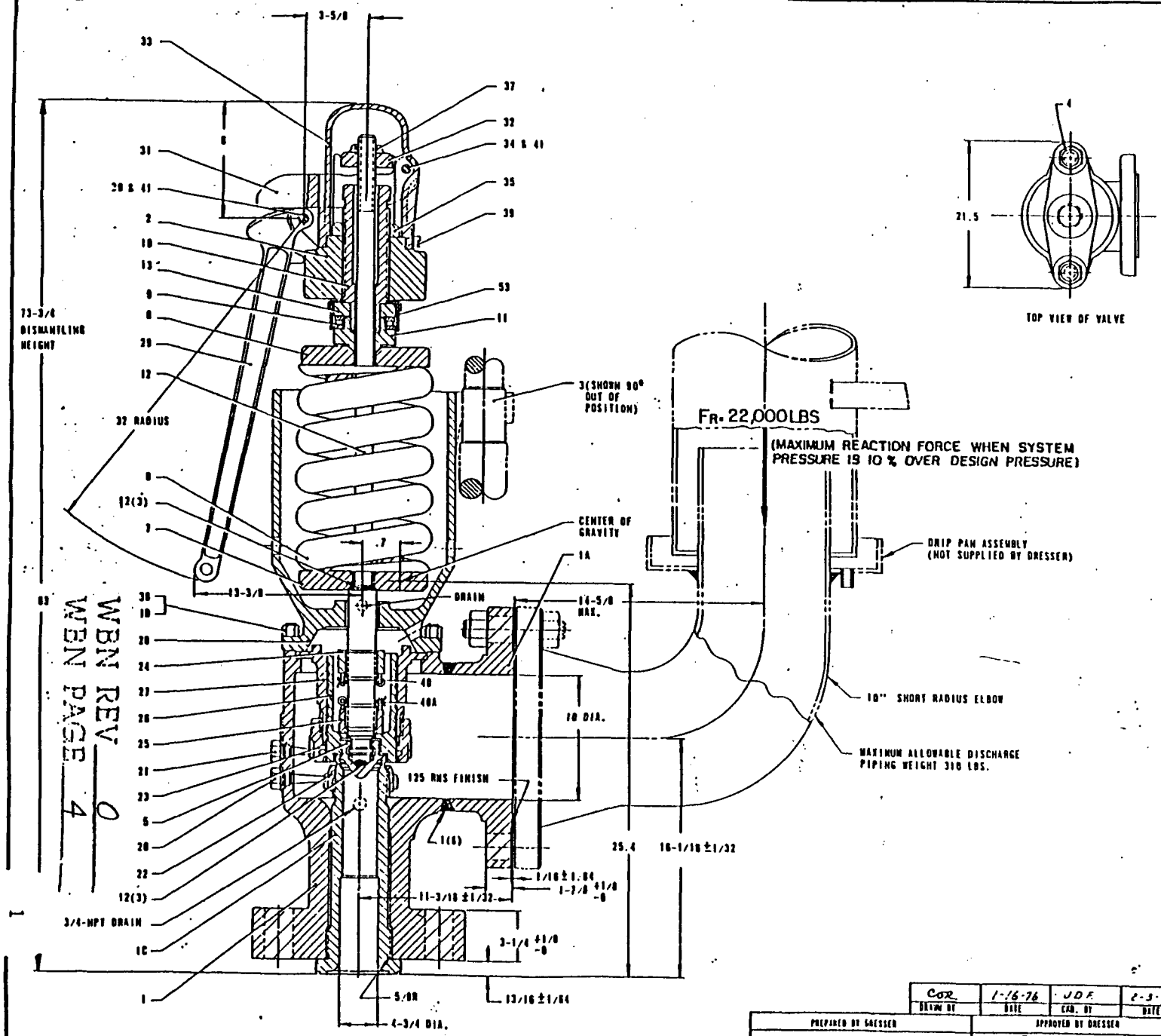
---------- **Controller Information** ----------

A spring which holds the pressure safety relief valve closed breaks and the valve fails full open. The valve is found to be discharging (vibration, noise, and temperature of the relief piping).

The valve is located in the Unit 1 North Main Steam Valve Vault Room. High temperatures, steam, and high radiation levels are present.

Possible fixes to anticipate:
1. Use of a safety valve closure tool
2. Use of a piping crimping tool
3. Use of a robot to force valve closed


ECN 6750
IN PROCESS
ECN 6750
IN PROCESS
ECN 6750
IN PROCESS
STEAM GENERATOR
LOOP NO. 4
ECN 6792
IN PROCESS
ECN 6750
IN PROCESS
STEAM GENERATOR
LOOP NO. 1
ECN 6750
IN PROCESS
STEAM GENERATOR
LOOP NO. 2
ECN 6792
IN PROCESS
ECN 6750
IN PROCESS
STEAM GENERATOR
LOOP NO. 3
H.P. TURBINE
MAIN FEEDWATER
PUMP TURBINE
STUCK OPEN SAFETY
VALVE



WBN REV 0
WBN PAGE 4

NOTE: NUMBERS IN PARENTHESIS FOLLOWING PART REF. NUMBERS INDICATE OPERATION SEQUENCE REF. NUMBERS.

ORDER #.

CUSTOMER: TENNESSEE VALLEY AUTHORITY

UTILITY: TENNESSEE VALLEY AUTHORITY

JOB SITE: WATTS BAR NUCLEAR PLANTS 1 & 2

CUSTOMER P.O. NO. 76K51-83082 — DATE: 12/22/75

DRESSER ORDER NO. 26-27710-0

CUSTOMER INQUIRY NO. 51-83082

DRESSER QUOTATION NO. ONSV-45068, REV. 2

VALVE DATA(STEAM SERVICE)

VALVE TYPE 3707

ASME CODE SECTION III — CLASS 2(TVA CL.B)

EDITION 1974 — ADDENDUM W74

INLET FLANGE 8"ANSI 1500# LARGE TONGUE

OUTLET FLANGE 10"ANSI 300# R.F. SMOOTH

SHIPPING WEIGHT 1650 LBS. MAX.

ORIFICE AREA 14.18 — SQUARE/INCHES

ORIFICE BORE DIA 4.250

DESIGN PRESSURE 1185 — PSIG

DESIGN TEMPERATURE 570 — °F

SYSTEM DESIGN PRESSURE 1200 — PSIG

SYSTEM DESIGN TEMPERATURE — °F

SYSTEM PRESSURE DROP — PSIG

AUTHORIZATION TO PROCEED WITH ORDER PROCESSING ACTIVITY (TO BE AUTHORIZED BY CUSTOMER)

1. RELEASE TO PROCURE RAW MATERIAL

TITLE _____ AUTHORIZED SIGNATURE & DATE

2. RELEASE TO MANUFACTURE

TITLE _____ AUTHORIZED SIGNATURE & DATE

3. RELEASE TO ASSEMBLE & TEST

AUTHORIZED SIGNATURE & DATE

CONSOLIDATED MARIFLOW SAFETY VALVE

INDUSTRIAL VALVE AND INSTRUMENT DIVISION — ALEXANDRIA, LOUISIANA

VALVE CODE 6-3707AX-RT-25-XHC040

D.W NO. 93E3302

ORDER CONTROL DWG. NO. — SHEET — REV. NO.

DRAWN BY	DATE	CKD. BY	DATE
COX	1-16-76	J.D.F.	2-3-76

PREPARED BY DRESSER

APPLICATION ENGR. — DATE 2-3-76

APPROVED BY DRESSER

CHIEF PRODUCT ENGR. — DATE 2/3/76

MANAGER OF ENGINEERING — DATE 2/10/76

WBN-VTD-D245-0270

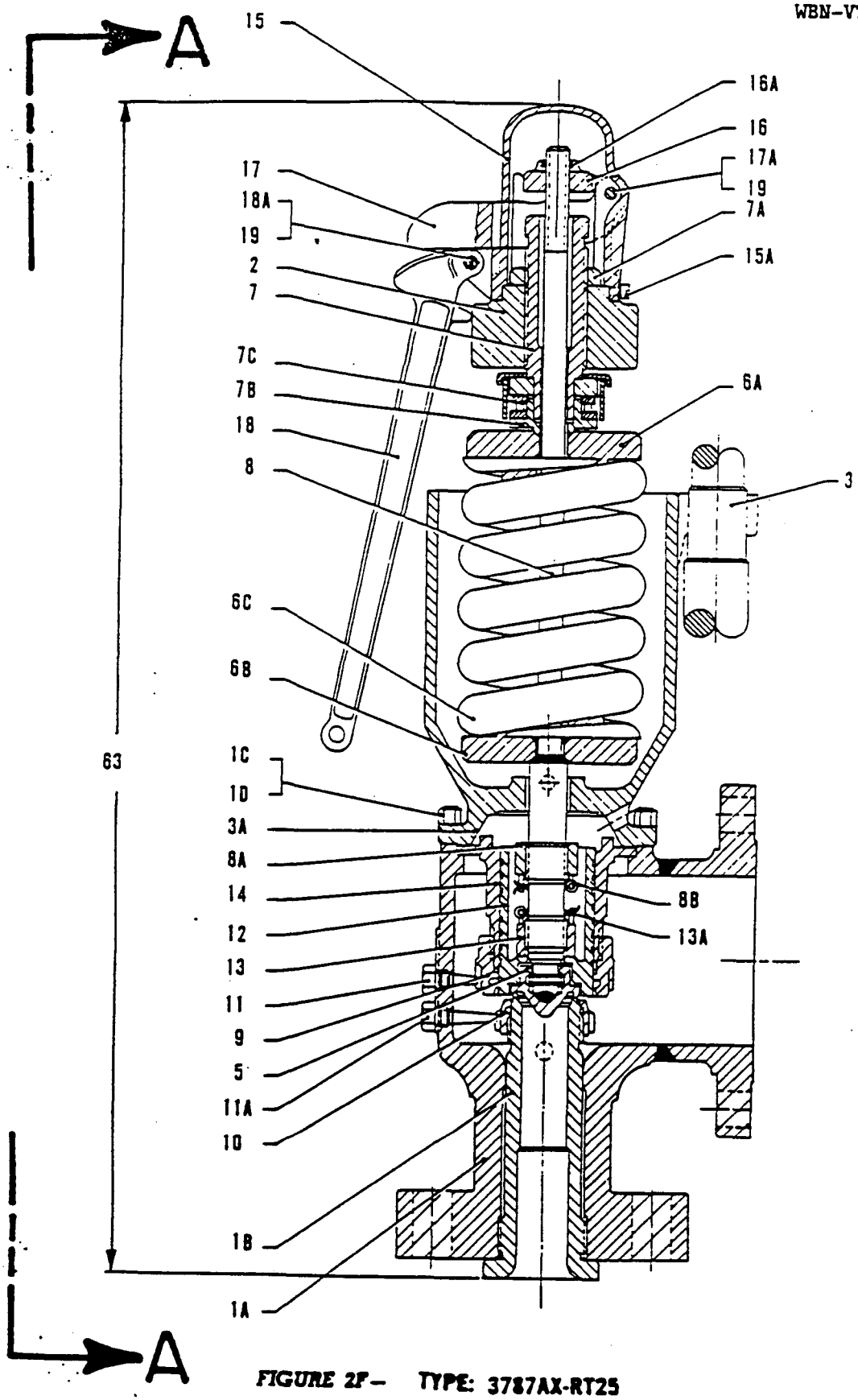


FIGURE 2F— **TYPE: 3787AX-RT25**

WBN REV 0
WBN PAGE 15

Developed by: Thomas/Williams
Task #: 5

OSC Task Description:

Medical Emergency - RLA falls in Hot Sample Room

Scenario Impact and/or Criticality:

None

Time Restrictions:

Start: T=0:05
End: About 45-60 minutes
Other: The TVA ambulance crew will not go to the hospital. The victim will be transferred to the offsite ambulance at the site boundary. Radcon Hospital Technicians will not return to the site for about 3 hours.

References:

---------- **Controller Information** ----------

The victim fell while taking a RCS sample. The victim will be found lying on the floor unconscious. Blunt trauma on the forehead is suspected due to a noticeable bruising and swelling.

Primary Medical Survey:
Airway, Breathing, and Circulatory status satisfactory

Secondary Survey:
Trauma referenced above, patient has loss of consciousness. Vital signs will initially be as obtained. If patient is not transported within 45 minutes, vital signs may be simulated to indicate a deteriorating status (BP of 160/100 pulse of 40, respiration of 10 and skin conditions normal).

Radiological survey indicates 400 cpm on the forehead with spotty contamination on the external clothing of 400 cpm. If clothing is removed, the skin underneath areas of wet clothing will be contaminated at 200 cpm.

Developed by: Haack
Task #: 6

OSC Task Description:

EGTS Train 'A' failure - Suction duct collapses

Scenario Impact and/or Criticality:

None

Time Restrictions:

Start: T=2:40
End: Not restricted
Other:

References:

1-47W866-1 R9

---------- **Controller Information** ----------

The duct near the fan suction collapses closed (or nearly so). Thus, even though all other aspects of the system remain normal, the fan cannot induce flow through the ductwork. Of special significance is that the air cleanup subsystem, which is the Engineered Safety Feature portion of the EGTS, cannot achieve its safety function of keeping the Shield building annulus below atmospheric pressure during a Design Basis Loss of Coolant Accident.

The location in the duct system where the pressure is usually the lowest is a the fan suction, and is typically less than atmospheric pressure. Thus if the duct wall is not sufficiently thick, the higher pressure on the outside can cause the duct to deflect inward.

We are postulating a combination of insufficient internal support to the duct and use of materials thinner than specified in the design. This leads to the sudden and complete collapse of the duct. The collapse can occur at any time during the scenario.

DCA S20903-03-0

INTERFACE HOLD ORDER 20019

ECN 6293 WP# E6293-3 IN PROCESS

DCN 0-0 5532-A IN PROCESS

Collapse here

9	S-21747-A S-20903-A	1-27-93	LPE	PBB	MLC	NR	NR	NR	NR/JR	RLE/CD
	REVISED PER DCA'S S21747-01-0 & S20903-03-0.									
8	2-2019-65 2-2032-65	9-16-92	MGK/CJ	MEB	MLC	NR	NR	NR	TWD	RLE/CD
	RETURNED TO NORMAL TACF# 2-2019-65 & TACF# 2-2032-65.									
7	S-18470-A	6-19-92	JCL	EDJ	MLC	NR	NR	NR	TWD	EW
	REVISED PER DCA S18470-01-0.									

REV NO.	CHANGE REF	DATE	DFTR	CHKR	DSGN	RVWR	1APPD	2APPD	3APPD	ISSD

SCALE: NTS — EXCEPT AS NOTED

PROJECT FACILITY: REACTOR BUILDING UNITS 1 & 2

TITLE: FLOW DIAGRAM HEATING AND VENTILATION AIR FLOW

1 — WATTS BAR NUCLEAR PLANT, TENNESSEE VALLEY AUTHORITY — 0

DESIGN		INITIAL ISSUE	ENGINEERING APPROVAL
DRAFTER	CHECKER	RO ISSUE PER WBEP 5.17, RIMS B26 '90 0109 378, B26 '90 0117 377 & DCN P-00484-A	1 C.J. WOLLSON
DESIGNER	REVIEWER		2 C.J. WOLLSON
			3 F.J. KOONTZ
DATE 6-18-90	85	N	1-47W866-1 R9

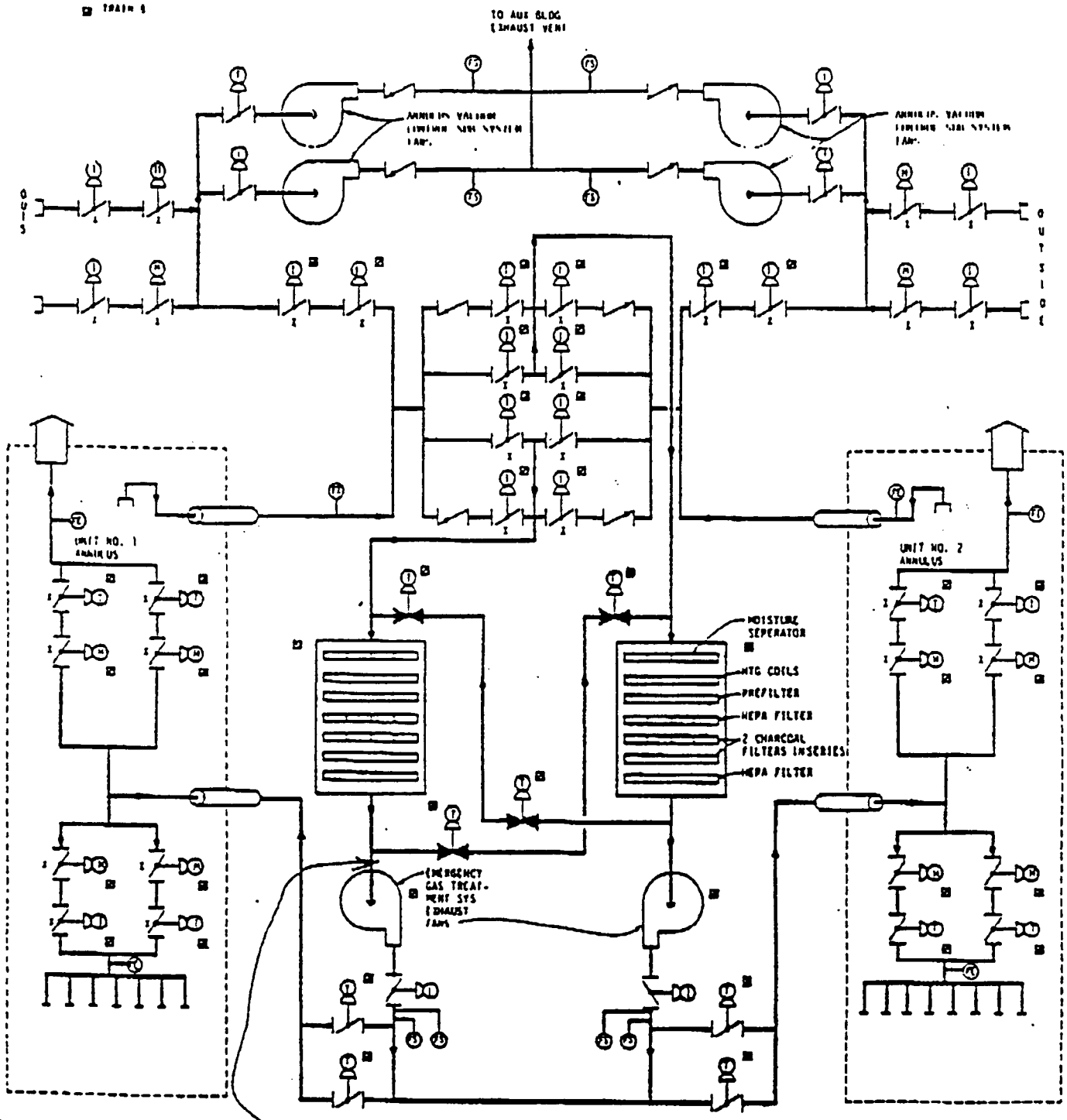
FSAR

ISSUED BY: S.E. GIBSON FOR VBR

CAD MAINTAINED DRAWING

CONFIGURATION CONTROL DRAWING

4/2



Duct collapses here

See also dwg. 47W866-1 R11

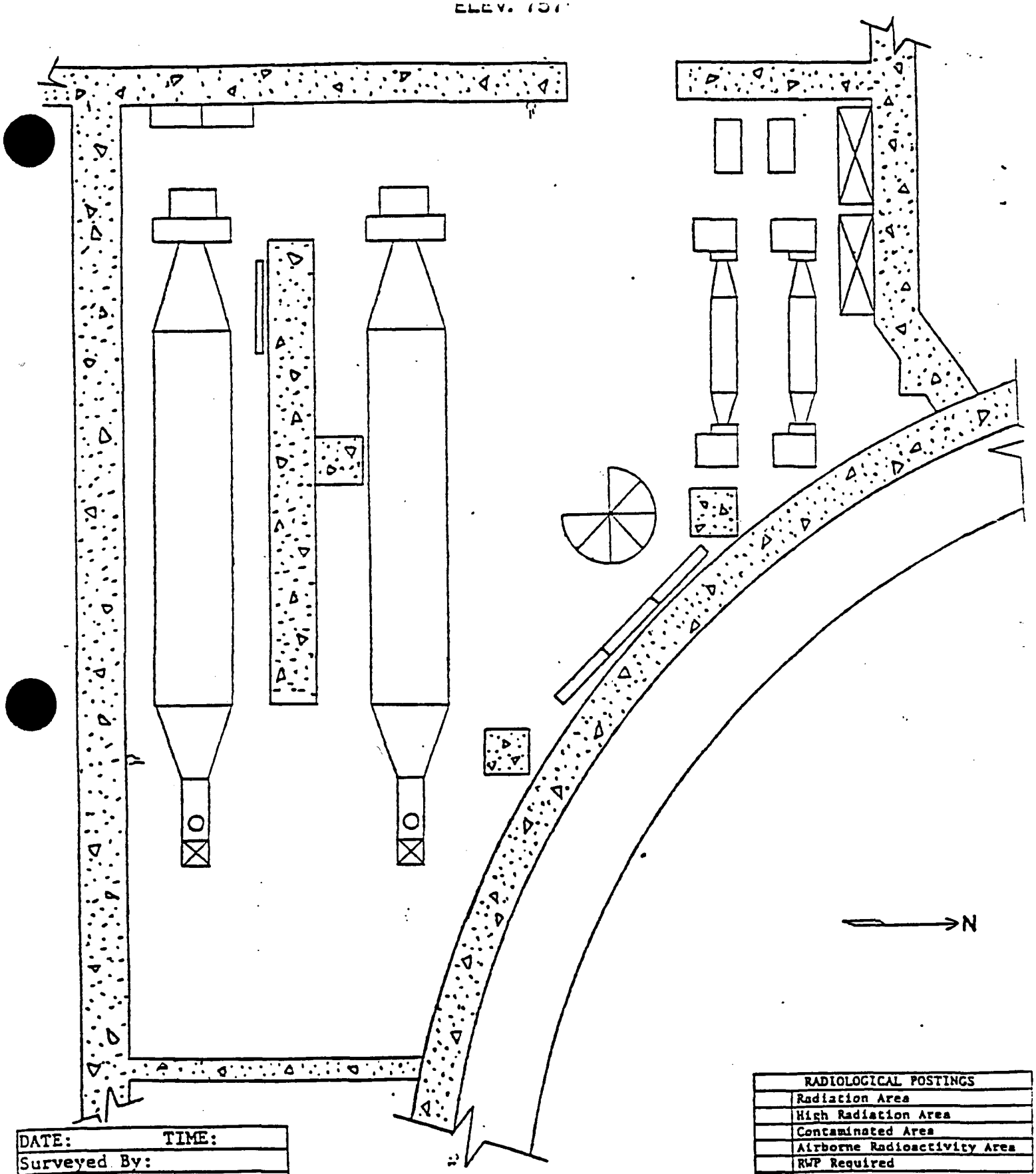
Revised by Amendment 56

WATTS BAR NUCLEAR PLANT
FINAL SAFETY ANALYSIS REPORT

EMERGENCY GAS TREATMENT SYSTEM
SCHEMATIC DIAGRAM
FIGURE 6.2.3-11

8/13/93

ELEV. 757'



DATE:	TIME:
Surveyed By:	
Survey No.:	
trument No.:	
arks:	

SMEAR RESULTS IN DPM/100 cm^2

1	6	11	16
2	7	12	17
3	8	13	18
4	9	14	19
5	10	15	20

RADIOLOGICAL POSTINGS	
	Radiation Area
	High Radiation Area
	Contaminated Area
	Airborne Radioactivity Area
	RWP Required
	Notify H.P. Prior To Entry
xxxxx	Radiological Boundaries
O	Contamination Smear Locations
ℓ	Radiation Levels - Note All radiation levels are to be in MR/HR unless otherwise noted
*C/ /	Contact/18"/GA

WB-141

Developed by: Turnbull
Task #: 7

OSC Task Description:

Refill RCP #2 oil reservoir

Scenario Impact and/or Criticality:

Justification for shutting down to 18% power

Time Restrictions:

Start: After reaching 18% power
End:
Other:

References:

---------- **Controller Information** ----------

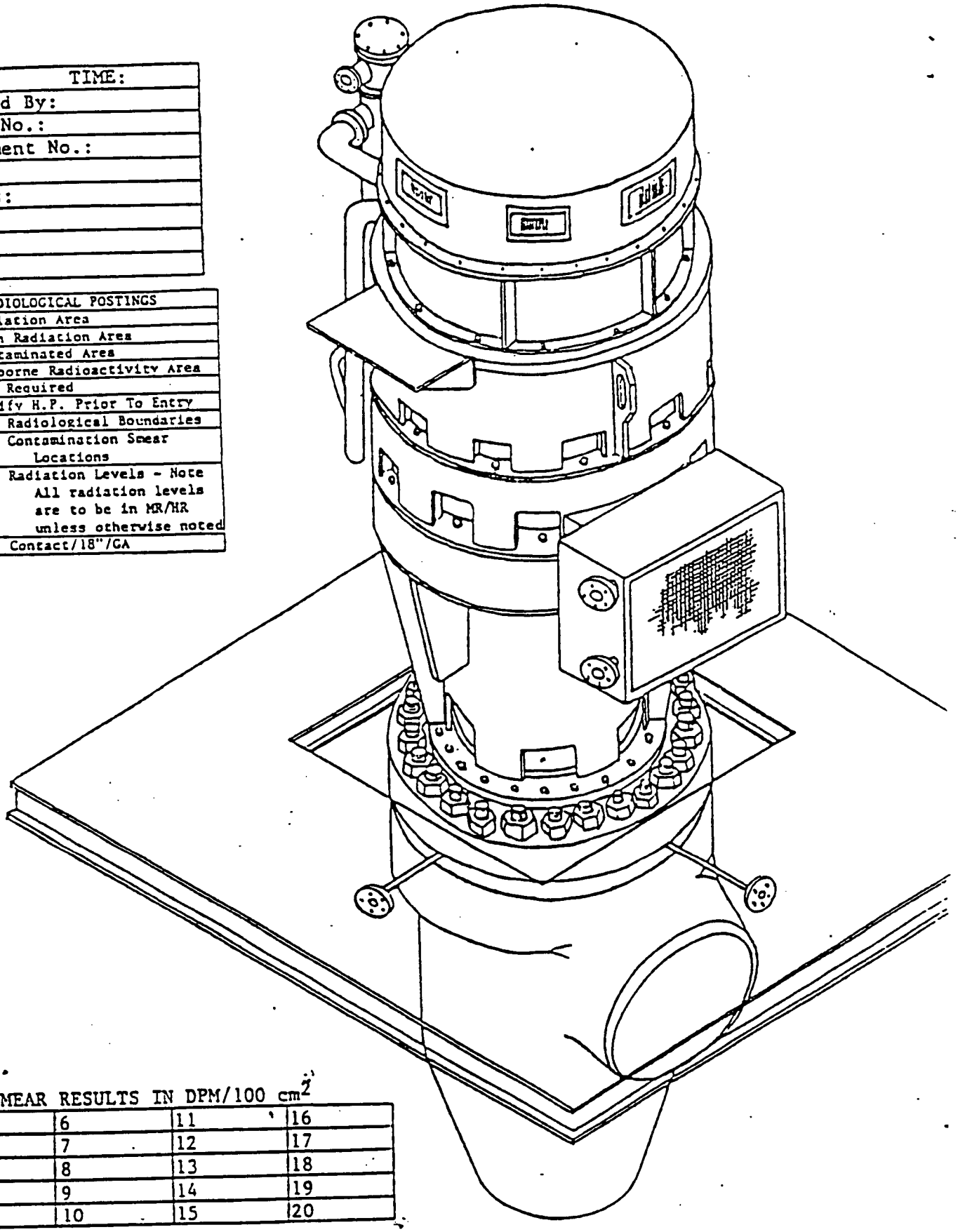
Work is not essential and, upon deterioration of the plant conditions, should not be carried out as high radiation levels are involved.

UNIT 1 OF 2

RCP MOTOR #___

DATE:	TIME:
Surveyed By:	
Survey No.:	
Instrument No.:	
Remarks:	

RADIOLOGICAL POSTINGS	
	Radiation Area
	High Radiation Area
	Contaminated Area
	Airborne Radioactivity Area
	RWP Required
	Notify H.P. Prior To Entry
xxxxx	Radiological Boundaries
○	Contamination Smear Locations
0	Radiation Levels - Note All radiation levels are to be in MR/HR unless otherwise noted
•C/ /	Contact/18"/GA



SMEAR RESULTS IN DPM/100 cm^2

1	6	11	16
2	7	12	17
3	8	13	18
4	9	14	19
5	10	15	20

WB-215

Developed by:
Task #: 8

OSC Task Description:

Swap alternate Seal Water Injection Filter

Scenario Impact and/or Criticality:

None

Time Restrictions:

Start: T=2:15
End: Not restricted
Other:

References:

---------- **Controller Information** ----------

Developed by:
Task #: 9

OSC Task Description:

AUO dispatched to Auxiliary Instrument Room

Scenario Impact and/or Criticality:

Provides verification of loose parts IF performed

Time Restrictions:

Start: As assigned
End: As assigned
Other:

References:

---------- **Controller Information** ----------

Developed by: Turnbull
Task #: 10

OSC Task Description:

Repair breaker 1-BKR-074-0008-A

Scenario Impact and/or Criticality:

Delays initiation of RHR (if attempt to align RHR)

Time Restrictions:

Start: As assigned
End: As assigned
Other:

References:

VTD-W120-2476 page 17
VTD-W120-2868 page 21

---------- **Controller Information** ----------

This in cooperation with the failure of 1-FCV-74-2 to operate, eliminates the ability to align RHR. If RHR is aligned, the dose rates in the Auxiliary Building will be substantially changed. We cannot allow this to occur.

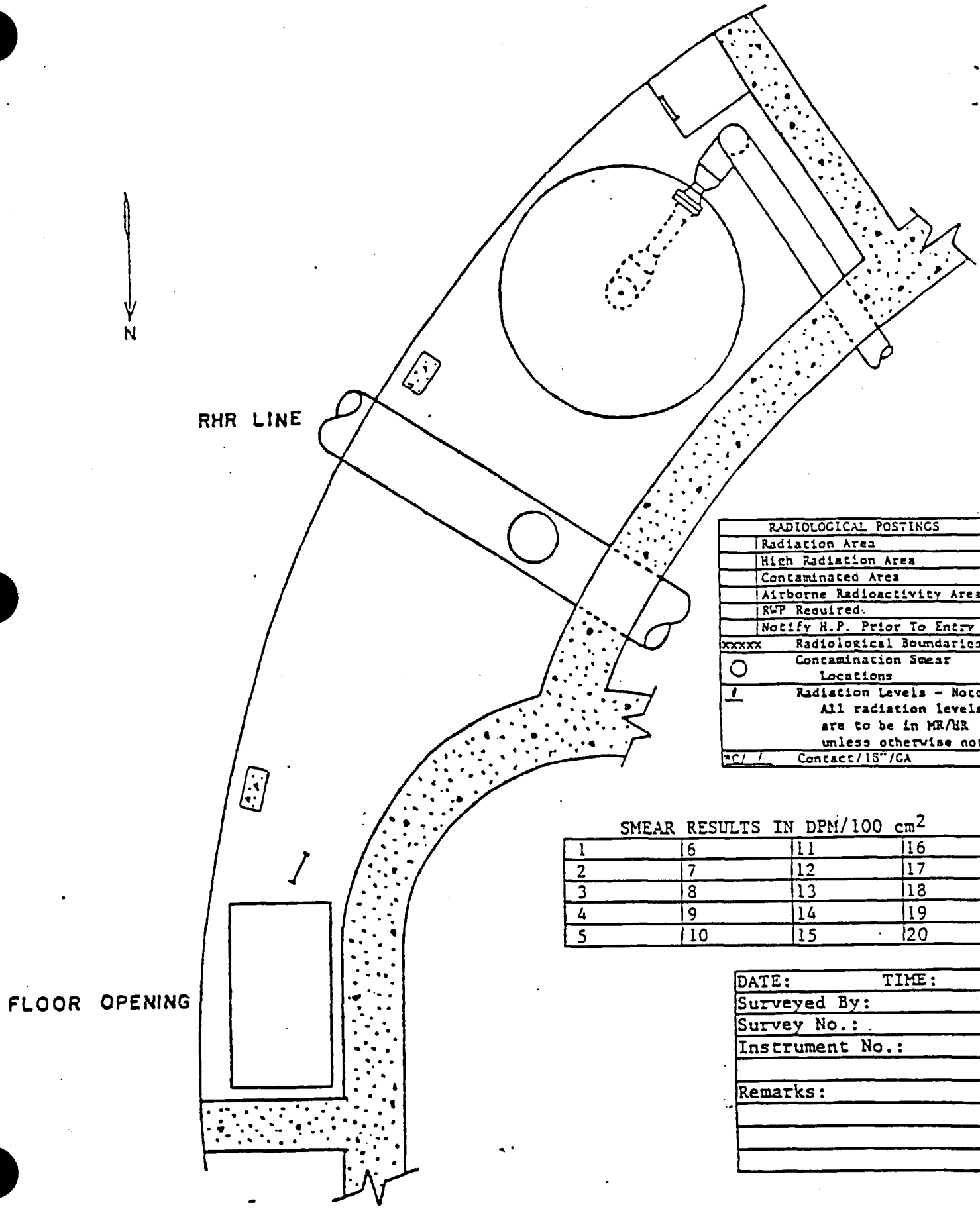
Initial condition for RHR Isolation bypass valve is that the valve is normal configuration (closed and its source breaker 1-BKR-74-8A open). The source breaker (1-BKR-74-8A) located in compartment 6D of motor control center 1-MCC-213-A2-A (480V Reactor MOV Board 1A2-A) has been found to be inoperable. See the single line drawing 1-45W451-4. The problem with the breaker is that it is binding internally and must be replaced.

The possible fixes are:

1. Replace the breaker with a like breaker in the same compartment. This is the most likely approach they would take. This involves withdrawal of the plug-in unit to the "lock-out" position. This removes power from the breaker and would allow replacement of the breaker by disconnecting six power leads and the breaker mounting bolts. The control wiring would not have to be disconnected.
2. Replace the compartment plug-in unit on which the breaker is housed. This involves a complete removal of the plug-in unit which involves disconnecting the power and control cables and replacing the unit with a like or similar unit.
3. Jumper around the existing breaker. This would remove cable protection and should not be done except as a last resort. It could be done by withdrawing the plug-in unit to the "lock-out" position and either adding lead clips around the breaker or disconnecting the power leads and bolting the incoming leads to the outgoing leads. The plug-in unit could then be inserted and the valve run to the other position.

ACCUMULATOR #4
ELEV. 716'

1-FCV-74-8



RADIOLOGICAL POSTINGS	
	Radiation Area
	High Radiation Area
	Contaminated Area
	Airborne Radioactivity Area
	RWP Required.
	Notify H.P. Prior To Entry
xxxxx	Radiological Boundaries
O	Contamination Smear Locations
/	Radiation Levels - Note All radiation levels are to be in MR/HR unless otherwise note
*C/ /	Contact/18"/GA

SMEAR RESULTS IN DPM/100 cm^2

1	6	11	16
2	7	12	17
3	8	13	18
4	9	14	19
5	10	15	20

DATE:	TIME:
Surveyed By:	
Survey No.:	
Instrument No.:	
Remarks:	

WR-236

Public Info

Public Information

Instructions for Mock Media/Citizens

You have been assigned to assist the controller in the Watts Bar Exercise by making telephones calls to players and asking questions at media briefings. Media in the local area around the plant may have also been asked to participate in the exercise.

The controller will make assignments and will notify you at the start of the exercise. In order to make the exercise more realistic, you are not being supplied the scenario or information about plant conditions before the start of the exercise.

In making mock media/citizen calls, you should attempt to make enough calls to the appropriate players to exercise their ability to respond. You should develop your own questions/messages as the exercise progresses based on the events as being reported by the players. Questions should be challenging but try to be as realistic as possible.

Public Information

Instructions for Controller

Before the start of the exercise, the controller should contact all public information controllers and provide them with a copy of the Public Information Objectives and Instructions for the exercise. Mock media should be assigned to represent one or more local or national media outlets.

Following the Alert declaration and local media notification,

(1) Calls should be made by mock media to Site Communications by local media with questions focusing on plant status and should the media go to the site for additional information. If you cannot reach Site Communications, you should call Media Relations in Knoxville.

(2) Calls should be made by mock local citizens to Site Communications with questions focusing on the impact of what is happening at the site on you as a plant neighbor.

Following the sounding of the Accountability Sirens,

Calls should be made from mock local citizens living very near the plant concerning hearing the sirens or from local media receiving calls from plant neighbors.

Following declaration of a Site Area Emergency,

(1) Calls should be made from national media (both newspaper and television).

(2) Calls should also be made from mock citizens with questions focusing on clarification of information found in the calendar distributed to local EPZ residents or questions about information being broadcast by local media.

(3) Calls should be made to TVA's Washington office from mock congressional staff of Tennessee Senators and Representatives from Southeast Tennessee.

(4) Calls should be made to TVA's State Relations office in Knoxville from mock staff of Alabama and Georgia Governor's offices.

Worksheets

Instructions to Controllers, Evaluators, and Visitors

A Radiological Emergency Plan (REP) Exercise is conducted each year to demonstrate the ability of the emergency response organization to respond to an actual emergency and, in doing so, protect the safety and health of the workers and the general public. This demonstration is controlled by TVA personnel and evaluated to determine the adequacy of the response actions taken. The selection of personnel to control the exercise is based on the specific areas of expertise being controlled or evaluated.

A large contingent of evaluators and controllers must be utilized to conduct such a large scale endeavor and each individual must understand and follow specific instructions to ensure the successful conduct of the exercise. The following packages contain specific instructions and rules for controllers and evaluators to follow while participating in the REP Exercise. The players instructions are included in the initial conditions package provide to each player.

Pre-Exercise Checklist:

_____ 1. Read the entire scenario package and be especially familiar with the objectives, scenario narrative summary, data for your area, and the controller worksheets for your area.

_____ 2. Read and analyze the scenario data in your area of expertise. Determine if any changes or additions to the data are needed to ensure the correctness of the scenario.

_____ 3. Attend all SDT/Controller meetings. Lead Controllers will meet with controllers in their area to discuss scenario data, completeness, and coherency. Lead Controllers will inform the Scenario Development Team (SDT) Leader of necessary changes, deletions, or additions to the scenario package.

_____ 4. Keep your scenario package updated as information changes. Update packages will be given to you during meetings if changes have been made.

_____ 5. Do not divulge the scenario start time or date. Do not discuss the scenario events or timeline with people except the Visitors, Controllers, or Evaluators.

Post-Exercise Checklist:

_____ 1. Lead Controllers obtain copies of pertinent data such as log books, surveys, etc which could be useful during the Controller Critique to provide answers to questions. Copies to requested materials will be provided to NRC evaluators.

_____ 2. In preparation for the Controller Critique, review the exercise objectives and complete applicable controller worksheets. Include any items that require action to improve the Emergency Preparedness program and identify any positive activities.

_____ 3. Attend any scheduled Controller Critique.

_____ 4. During the Controller Critique, discuss the completed controller worksheets to your lead controller. Lead Controllers will discuss and identified problems with the controllers as to be able to explain or justify the critique item. The Lead Controller will collect the completed controller worksheets to better document the necessary actions.

Instructions and Roles for Controllers, Evaluators, and Visitors

Role of a Controller:

Exercise Conduct

- Pass out data and messages required to guide the exercise.
- Provide additional information to emergency responders that they may request concerning accident details as long as this information would be directly available to them if this were a real event (earned data concept).
- Be familiar with the scenario, the data, and the messages you may have to pass out.
- Take whatever actions are required to keep the scenario on course (coordinate action with the Lead Controller when they are not within the scope of the existing scenario).
- Report to your Lead Controller any problems you are unable to resolve or impact multiple emergency facilities.

Exercise Evaluation (ONLY when this will not interfere with Exercise Control)

- Record any areas where you believe improvement is needed and present your comments at the post-exercise controller critique.
- Record any areas where you believe improvement is needed and present your comments at the post-exercise controller critique.
- Attend Post-Exercise Critique and develop list of action items to improve the EP response capability.

Role of an Evaluator:

Exercise Evaluation

- Record the positive and negative observations on player actions using the evaluation sheets provided in your scenario package.
- Record any areas where you believe improvement is needed and present your comments at the post-exercise controller critique.
- Attend Post-Exercise Critique and develop list of action items to improve the EP response capability.

Role of a Visitor:

Observation ONLY!

- Do not interact with the players.
- Do not discuss the scenario, impressions, or details during the exercise with anyone except controllers or evaluators.
- For scenario purposes you do not exist. Therefore having no interaction with the participants is your goal (and thereby no impact on their performance). Visitors are included in exercise for the personal improvement of the visitor, not the emergency organization.
- If you have any questions, check with the Lead Controller for your area.

Instructions for the Conduct of an Exercise

1. **General Conduct:**
   - Know the overall controller organization
   - Identify participants by position and name in notes, logs, and conversations.
   - Identify yourself at all times and to all players by uses of a controller armband.
   - The participants are expected to obtain information through the emergency organization and exercise their own judgment in determining response actions and resolving problems. In the event of an incorrect response, incomplete response, or if the participant indicates he does not know how to proceed; the controller may redirect the participant with the necessary instructions and will note the necessity to prompt on his evaluation sheet(s). Permission to prompt must be obtained from the Exercise Coordinator.
   - Equipment problems not covered in the OSC Tasks section will be handled by the controllers as to minimize the impact on the exercise.
   - There are not specific meal breaks in the exercise. Controllers should break for meals as time permits after consulting with their Lead Controller. Emergency Team Leaders should determine when their team should break for meals.

2. **Exercise Control:**
   - Inform the Lead Controller of your pager number or other methods of reaching you quickly during the exercise if this is necessary.
   - Remember to call the lead controller to report on the status of the players actions.
   - Position yourself to maximize your effectiveness
   - Personnel are assigned as controllers at all key function areas to monitor and control the exercise. They will accompany radiological monitoring teams, maintenance, search/rescue, and other teams as needed to provide the sensory information as necessary.
   - The controller activities will be overseen by the Exercise Coordinator who will be in near constant communications with Lead Controllers for each facility. He will be responsible for the overall conduct of the exercise scenario.
   - Messages and simulated Control Room data will be used to initiate, modify, and complete the events comprising the overall scenario. Selected controllers will use the messages sheets or OSC Task sheets to place the scenario events into effect and to trigger responses from the involved emergency responders. Each controller will have copies of the messages controlling the portion of the exercise scenario for which he is responsible. Participants are not allowed to interject events into the scenario.
   - Controlling messages will be presented to the designated exercise participant at the time and under the conditions specified on the messages. Controllers should follow-up any messages with any necessary clarifying explanation to ensure that the participant fully understands the message.
   - Selected Controllers will have real time-related plant and radiological data for issuance to exercise participants in position to have earned the data.

3. **Plant Operations:**
   - Any portions of the scenario depicting plant system operations transients are simulated
   - No actions involving operations of actual equipment impacting actual operation of the site
   - All exercise messages, especially on radio, should include "This is a Drill"
   - Controllers stationed at vital areas should be especially careful regarding operations of actual plant equipment

4. **Scenario Awareness:**
   - Be aware at all times of where you are in the scenario. Don't leave your post at key times. Your Lead Controller can arrange for a replacement controller when necessary.
   - Be sure you understand the players actions and the master scenario,
   - Keep the scenario on schedule by checking your timeline frequently.
   - Issue the message(s) on time
   - Do not issue messages that are inconsistent with the scenario or add events that were not approved in advance by your Lead Controller. Additional events may adversely impact out ability to evaluate the established objectives and must be carefully screened before being added to the exercise.

5. **Interaction with Players:**
   - Allow players some flexibility to do their function and demonstrate their skills, knowledge, and initiative.
   - Do not prompt the players.
   - Identify the player's leader and work with him as appropriate.
   - Don't allow media or other external influences to distract the players. No interviews with players are allowed during the exercises as this may be detrimental to the overall performance.
   - . Some exercise participants may insist that certain parts of the scenario are unrealistic. Controllers have the authority and responsibility to prevent this from interfering with the performance of the exercise. Controllers have the authority upon coordination with the Lead Controller to clarify any questions and basis of technical disagreements. In some cases, it may be necessary to invoke "Controllers Prerogative" to preserve the continuity of the exercise.

6. **Personnel Safety:**
   - If a real emergency occurs, suspend the exercise and notify your Lead Controller IMMEDIATELY! Report any hazardous condition to your Lead Controller immediately.
   - Controllers, evaluators, and visitors are not required to respond to the SIMULATED conditions (radiological, industrial, etc.). However, ALL PERSONNEL MUST FOLLOW ALL NORMAL SITE SAFETY PROCEDURES.
   - Be sure to have a hard-hat, hearing protection, and safety glasses with you when entering the plant.

7. **Critique:**
   - Return all exercise evaluations forms to your lead controller who will forward them to the Exercise Coordinator for storage.

	EXERCISE SPECIFIC CRITERIA	☑
1.	Controllers did not prompt, coach, or otherwise interfere with the performance of control room personnel. (1.9.1)	
2.	TSC controllers did not prompt, coach, or otherwise interfere with the performance of TAC personnel. (1.9.1)	
3.	OSC controllers did not prompt, coach, or otherwise interfere with the performance of OSC personnel. (1.9.1)	
4.	CECC controllers did not prompt, coach, or otherwise interfere with the performance of CECC personnel (1.9.1)	
5.	TSC personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
6.	OSC personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
7.	CECC personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
8.	Field personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
9.	Players did not have prior knowledge of the exercise scenario initiation time. (Players may be aware of the exercise date due to prior release to the news media to prevent unnecessary public concern.)	
10.	Player actions did not imply prior knowledge of scenario details beyond those attributed to normal insight or expectations.	
11.	Technical accuracy of the scenario was within the scope of reasonably expected plant conditions.	
12.	The scenario adequately anticipated significant player actions and players were provided the associated supporting data.	
13.	The scenario was sufficiently difficult to exercise capabilities of the emergency plan and response personnel.	
14.	A players critique was conducted following the exercise and comments recorded for evaluation.	
15.	A controllers critique was conducted following the exercise and comments recorded for evaluation.	
16.	Player and controller comments were evaluated, categorized and prioritized by the lead controllers resulting in a clear and accurate synopsis of the exercise.	
17.	All proposals for de-escalation of an emergency and entry into the recovery phase were coordinated with the State by the CECC Director.	
18.	All emergency de-escalation's and recovery plans were decided on with the participation and concurrence of the CECC Director.	
19.	Recovery/Re-entry activities were planned and conducted in accordance with CECC-EPIP-13.	
20.	Communications systems adequately supported the needs of the Control Room staff. (Computer terminals, telephones, radios, etc.) (1.9.8)	
21.	Technical resources, plant procedures, drawings and other information were readily available and up-to-date to adequately support the needs of the control room. (1.9.2.)	
22.	The space and work area in the Control Room was adequate for the staff to work effectively.	
23.	TSC communications systems (telephones computer terminals, radios, etc.) adequately supported the needs of the TSC staff.	
24.	TSC communications systems functioned properly to the extent that required notifications or mitigating actions were not delayed or prevented. (2.10.6)	
25.	Technical resources, procedures, drawings, and other necessary information was readily available and current to adequately support the needs of the TSC staff. (2.10.2)	
26.	The space and work area in the TSC was adequate for staff personnel to work effectively.	
27.	Resources necessary to perform required analyses and assessments were available for TSC personnel. (RAC,SPDS, PC based assessment programs, etc.) (2.7.5)	
28.	Technical resources, procedures, drawings, and other necessary information was readily available and current to adequately support the needs of the OSC staff. (2.10.2)	
29.	The space and work area in the OSC was adequate for staff personnel to work effectively.	
30.	OSC communications systems (telephones, computer terminals, radios, facsimile machines, etc.) adequately supported the needs of the OSC staff and did not impede the progress of OSC response teams. (4.1.4., 4.3.3)	
31.	CECC communications systems functioned properly to the extent that required notifications or mitigating actions were not delayed or prevented.	
32.	CECC communications systems (telephones, computer terminals, radios, facsimile machines, etc.) adequately supported the needs of the CECC staff. (3.7.7)	

33.	Technical resources, procedures, drawings, and other necessary information was readily available and current to adequately support the needs of the CECC staff. (3.7.2, 3.7.12)	
34.	Resources necessary to perform required analyses and assessments were available for CECC personnel. (RED, FRED, PACDAM, SPDS, etc.) (3.7.12)	
35.	The space and work area in the CECC was adequate for staff personnel to work effectively.	
36.	The TSC was activated within 60 minutes of the declaration of an Alert, Site Area, or General Emergency. (2.1.1)	
37.	TSC staffing satisfied the minimum requirements of NUREG-0654 and NP-REP prior to a TSC declaration of activation. (2.1.2)	
38.	The SED clearly announced when the TSC was activated.	
39.	Personnel performing key functions in the TSC were those listed on the current duty roster. (2.1.4)	
40.	The OSC was activated within 60 minutes of the declaration of an Alert, Site Area, or General Emergency. (4.1.1)	
41.	OSC staffing satisfied the minimum requirements of NUREG-0654 and NP-REP prior to a OSC declaration of activation. (4.1.2)	
42.	The OSC Manager clearly announced when the OSC was activated. (4.1.1)	
43.	Personnel performing key functions in the OSC were those listed on the current duty roster. (4.3.7)	
44.	Sufficient staff was available in the OSC to support RADCON, chemistry, and maintenance activities. (4.2.1, 4.2.2, 4.2.3, 4.2.4, & 4.2.5)	
45.	At least eight RADCON technicians were available onsite within thirty minutes and at least fourteen were available onsite within 1 hour of the REP activation. (4.2.3)	
46.	The CECC was activated within 60 minutes of the declaration of an Alert, Site Area, or General Emergency. (3.1.1, 5.1.1, & 6.1.1)	
47.	CECC staffing satisfied the minimum requirements of NUREG-0654 and NP-REP prior to a CECC declaration of activation. (3.1.2, 3.1.2.1, 3.1.2.2, 3.1.2.3, & 3.1.2.4)	
48.	Personnel performing key functions in the CECC were those listed on the current duty roster. (3.7.4 & 6.1.3)	

49.	The ODS notified the appropriate TVA personnel in a timely manner according to EPIP-2, 3, 4, or 5.	
50.	Periodic radiation, airborne and contamination surveys were conducted in the Control Room area during the course of the event. (1.5.3)	
51.	Periodic radiation, airborne and contamination surveys were conducted in the TSC during the course of the event. (2.6.3)	
52.	Periodic radiation, airborne and contamination surveys were conducted in the OSC during the course of the event. (4.1.5)	
53.	RADCON personnel routinely took radiation, airborne (particulate and iodine), and contamination surveys of all assembly areas.	
54.	The TSC was able to establish and maintain an open communications line with the control room. (2. 1.1.6)	
55.	The TSC was able to establish and maintain, if requested, an open communications line with the NRC.	
56.	The OSC was able to establish and maintain an open communications line with the TSC and Control Room. (4.1.4)	
57.	The CECC was able to establish and maintain an open communications line with the TSC and Control Room.	
58.	The CECC was able to establish and maintain an open communications line with the State.	
59.	Sufficient qualified personnel were available for relief of Control Room personnel	
60.	Control Room relief personnel were properly and adequately briefed, by the individual being relieved, prior to the turnover of responsibilities. (1.9.13) (Evaluate only if relief occurs)	
61.	Sufficient qualified personnel were available for relief of TSC personnel.	
62.	TSC relief personnel were properly and adequately briefed, by the individual being relieved, prior to the turnover of responsibilities. (2.10.9) (Evaluate only if relief occurs)	
63.	Sufficient qualified personnel were available for relief of OSC personnel.	
64.	OSC relief personnel were properly and adequately briefed, by the individual being relieved, prior to the turnover of responsibilities. (Evaluate only if relief occurs)	
65.	Sufficient qualified personnel were available for relief of CECC personnel.	

66.	CECC relief personnel were properly and adequately briefed, by the individual being relieved, prior to the turnover of responsibilities. (3.7.11) (Evaluate only if relief occurs)	
67.	The OSC Post-accident sampling team members appeared knowledgeable, qualified and properly trained. (11.1.3)	
68.	The Post-accident sampling team demonstrated adequate familiarity with the equipment, procedures, radiation protective methods, and personnel protective equipment. (11.1.4)	
69.	Post-accident samples were collected and analyzed within 3 hours of the sample request. (11.1.7)	
70.	Post-accident sampling team member exposures did not exceed 3 REM whole body or 18.75 REM to the extremities. (11.1.2)	
71.	Proper equipment was used to obtain the post-accident sample and it was transported properly. (11.1.5)	
72.	Sufficient precautions were taken during post-accident sample analysis to minimize personnel exposure and prevent contamination of the lab. (11.1.6)	
73.	Laboratory technicians demonstrated appropriate lab practices during post-accident sample handling and analysis (shielding, disposal, dilution techniques, etc.).	
74.	Post-accident sampling and analysis procedures were adequate to provide accurate and representative results.	
75.	The post-accident sample was analyzed for; noble gases, iodine, cesium, non-volatile isotopes, hydrogen, chlorides and boron. (11.1.7)	

	CONTROL ROOM/SIMULATOR CRITERIA	☑
1.	The Control Room staff properly recognized abnormal conditions based on interpretation of instrumentation and other available information. (1.1.1, 1.1.2)	
2.	The Control Room staff correctly assessed abnormal conditions and took appropriate mitigating actions expeditiously.	
3.	The SOS was immediately notified of abnormal conditions or events and promptly took charge.	
4.	Emergency classification of conditions was prompt, accurate and appropriate based on EPIP-1 EALs. (1.1.3)	
5.	The Control Room staff correctly implemented the EPIP immediate actions (EPIP 2, 3, 4, or 5) following recognition and classification of the emergency. (1.2.1)	
6.	The SOS coordinated and supervised the control room staff's response and re-directed actions when needed. (1.2.2)	
7.	Control room activities were conducted in a manner that did not interfere with the analysis, classification or mitigation of the abnormal condition. (1.2.3)	
8.	The SOS promptly initiated or recommended protective actions for on-site personnel, if appropriate. (for example) - evacuation of non-essential personnel from site. - access control, protective clothing requirements or KI administration for essential on-site personnel.	
9.	The Control Room staff tracked onsite protective actions initiated by the Control Room. (1.5.1)	
10.	The Control Room staff, prior to the staffing of the TSC and CECC, made any required offsite Protective Action Recommendations consistent with EPIP-5.	
11.	If a release was anticipated or ongoing prior to staffing of the TSC, the control room staff assessed reactor systems data, source term assumptions, and meteorological data to confirm the EAL classification and assess the magnitude and location of onsite and offsite radiological conditions. (SQ TI-30/BF TI-67) (1.6.1, 1.1.4)	
12.	Prior to operation of the OSC, all response teams dispatched by the control room were promptly assembled and adequately briefed prior to their dispatch.	
13.	The SOS briefed the Plant Manager/SED about plant conditions and emergency classification prior to the transfer of Site Emergency Director responsibilities. (1.9.9)	
14.	The responsibilities and authorities of the Site Emergency Director were clearly transferred from the SOS to the Plant Manager or his designee and key personnel notified. (1.9.9)	
15.	The SOS periodically informed the control room staff of the status of the emergency and any activities conducted by the OSC/TSC.	
16.	Prior to activation of the TSC, periodic announcements were made by the Control Room staff/SOS over the plant PA to provide information concerning plant status and major events to onsite personnel	
17.	Control Room staff actions were those that would be reasonably expected under the postulated plant conditions.	
18.	The Control Room staff tracked the status of critical equipment and was cognizant of the status of plant systems.	
19.	Congestion and noise in the Control Room were kept at reasonable levels. (1.9.7)	
20.	Technical issues and items that could not be promptly resolved by the Control Room staff were referred to the TSC. (1.9.6)	
21.	The Control Room staff reported information needed by the TSC regarding plant status, equipment availability, operator actions and changes in plans to the TSC immediately and also effectively shared information with all emergency centers. (1.9.4)	
22.	Communication links were established and maintained between the Control Room, TSC, OSC, NRC, and CECC. (1.4.5)	
23.	Information, decisions and recommendations from the TSC to the Control Room were received in a timely manner. (1.9.5)	
24.	The Control Room staff used appropriate procedures and properly implemented the actions. (1.2.1, 1.9.3)	
25.	Chronological logs were maintained, in a legible form, to document critical decisions, events, staff changes, calculations, equipment status, and notifications. (1.9.10)	
26.	Accountability of onsite personnel was completed within 30 minutes of sounding of the assembly and accountability siren. (1.5.2)	
27.	Search and rescue procedures, if required, were implemented for missing personnel within 45 minutes of the assembly and accountability siren. (1.5.2)	
28.	Response teams dispatched prior to the accountability siren, notified the Control Room of their location for accountability purposes.	

29.	Personnel performing key functions in the Control Room appeared knowledgeable of their duties and responsibilities. (1.9.12)	
30.	The ODS was notified of the event within 5 minutes of its declaration. (1.4.2)	
31.	NRC notifications were made within 1 hour of event declaration and an open line maintained if requested. (1.4.2, 1.4.3)	
32.	The Control Room staff initiated notification of response personnel via the Automatic Paging System or appropriate callout sheet in accordance with the EPIP and notified onsite personnel by Public Address announcements.	
33.	Evacuation of high noise areas, if required, was ensured by a team of Radcon and Operations personnel per Attachment 1 of EPIP-8. (BFN Only)	
34.	The Control Room staff re-evaluated available information at least every 2 hours for event classification.	

	TSC CRITERIA	☑
1.	The SED was clearly in control and maintained TSC activities in an orderly manner.	
2.	Congestion and noise levels in the TSC were kept to an acceptable level. (2.10.5)	
3.	The SED maintained oversight of the TSC's analysis of conditions and events and any corrective actions taken. (2.7.1)	
4.	The SED implemented corrective action recommendations in an effective and timely manner.	
5.	The performance of peripheral TSC functions did not interfere with the classification, assessment, or mitigation of the principal event. (2.7.2)	
6.	The TSC staff provided adequate assistance to the Control Room in assessing event cause and the determination of appropriate mitigating actions. (2.1.1.2)	
7.	The TSC staff, when activated, assumed the responsibilities of overall plant operations. (2.1.1.1)	
8.	The TSC staff, using technical staff expertise and all available information, assessed and maintained an overview of reactor and plant conditions. (2.2.2, 2.2.4)	
9.	The SED evaluated and discussed with the CECC Director the potential onsite and offsite consequences of corrective actions taken. (2.7.4, 2.7.6)	
10.	Prior to activation of the CECC, the TSC initiated radiological effluent/environs monitoring and made dose projections as needed. (2.1.1.4)	
11.	Prior to activation of the CECC, the TSC made required notifications to Federal, State and Local emergency response organizations as conditions warranted. (2.1.1.5)	
12.	Prior to activation of the CECC, the TSC made offsite protective action recommendations if and when conditions warranted. (2.1.1.5)	
13.	Prior to activation of the CECC, the TSC dispatched the plant environs monitoring van if a release was anticipated or ongoing. (1.8.1)	
14.	Prior to activation of the CECC, the TSC provided the environs monitoring team with directions regarding geographical movement and measurements or samples to be taken. (1.8.1, 1.8.2)	
15.	Required notifications to State authorities were made within 15 minutes of event classifications.	
16.	The SED made prompt, accurate and appropriate event classifications per EPIP-1. (2.2.1)	
17.	The SED made prudent and timely protective action recommendations in accordance with EPIP-5.	
18.	The Site Director provided effective direction of Site Support personnel and resources to support the SED.	
19.	The SED, upon the classification of a Site Area Emergency, directed the initiation of personnel accountability, if not already performed.	
20.	The TSC promptly initiated onsite sampling and monitoring, given any release, to confirm the composition of the release. (i.e. iodine fraction) (1.6.2)	
21.	The TSC staff directed that post-accident containment air and/or reactor coolant samples be obtained and analyzed to determine appropriate protective actions for onsite personnel. (2.4.1)	
22.	If conditions warranted, the TSC initiated the evacuation of non-essential personnel from the plant to offsite locations per EPIP-8. (2.4.5)	
23.	The TSC recommended appropriate protective measures for essential personnel remaining onsite following evacuation. (i.e. protective clothing, KI, access control) (2.4.6)	
24.	The TSC staff confirmed and tracked the implementation of any onsite protective actions. (2.6.1)	
25.	Radcon tracked changing radiological conditions through the use of in-plant monitors and/or surveys and incorporated the information into protective action recommendations.	
26.	Key decisions, assignments, important events, data, calculations, and actions taken were chronologically recorded in the TSC logs. (2.10.8)	
27.	The TSC logs were maintained in a legible form.	
28.	The TSC staff used post-accident sampling and radiological monitoring results to assess, redefine and confirm conditions and emergency classifications. (2.2.5, 2.8.2, 2.8.3)	
29.	Effective communications were conducted between the TSC and other emergency centers (OSC, Control Room, CECC and NRC). (i.e. disregarding the accuracy, the information transmitted from one center was the information disseminated in the receiving center)	

30.	The information exchanged between the TSC and other emergency centers was accurate and timely based on the current conditions and available information.	
31.	Adequate information was exchanged/provided for the TSC to effectively perform its tasks. (1.9.9)	
32.	The TSC status boards were maintained accurate, based on available information, such that the TSC staff remained aware of important status and trends. (2.7.8)	
33.	TSC status boards were maintained current such that they did not impact the ability of the TSC to mitigate the event. (2.7.8)	
34.	OSC team location and progress information was maintained current on the TSC's OSC team tracking board to within 20 minutes of actual times.	
35.	The TSC kept the CECC informed of plant conditions and emergency status throughout the event.	
36.	The TSC informed onsite personnel initially and of any changes in: - Emergency conditions - Emergency classifications - Protective action recommendations - Radioactive release status	
37.	Available information was effectively shared within the TSC among Radcon, Operations, Technical Assessment, Maintenance, Chemistry, and the NRC.	
38.	Key managers in the TSC frequently consulted with each other and exchanged information during assessment and decisionmaking activities. (2.7.9)	
39.	TSC staff briefings and general plant PA messages were performed at each significant event and about once every hour. (2.5.1)	
40.	The SED provided adequate information during periodic briefings to keep the TSC and OSC staffs apprised of ongoing activities and plant status.	
41.	Accountability of onsite personnel was completed within 30 minutes of the sounding of the assembly and accountability siren. (2.6.2, 8.2.1)	
42.	Search and rescue procedures, if required, were implemented for missing personnel within 45 minutes of the assembly and accountability siren. (2.6.2, 8.2.2)	
43.	Security personnel implemented accountability procedures in accordance with EPIP-8 (BFN) or EPIP-11 (SQN)	
44.	Following the initial accountability, onsite personnel were continuously accounted for during the emergency event. (8.2.3)	

45.	Security personnel established site access control in accordance with EPIP-11 without hindrance to emergency response personnel. (8.1.1)	
46.	Security practices or procedures did not impede the movement or access of operations or emergency response personnel. (i.e. card-key controlled doors, locked doors, etc.) (8.1.2)	
47.	Security personnel radiation exposure was monitored and appropriate protective actions were taken as necessary. (8.1.4)	
48.	Security personnel were knowledgeable in their duties and responsibilities. (8.3.2)	
49.	Applicable procedures were available in the TSC and were properly applied. (2.10.3)	
50.	Ongoing OSC tasks were periodically reviewed to determine their continued value given the current plant conditions.	
51.	TSC personnel performing assessments and involved in decision-making processes were aware of important trends or changes in plant status. (2.7.7)	
52.	The TSC staff confirmed the event classification at least every 2 hours. (2.2.3)	
53.	The responsibilities and authorities of the Site Emergency Director were clearly transferred from the SOS to the Plant Manager or his designee and key personnel were notified. (1.9.9)	
54.	Decisions for emergency classification downgrading were made based on SED consultations with plant technical and operations staffs and coordinated with the CECC Director.	
55.	Any on-site recovery actions were implemented in accordance with EPIP-16.	
56.	Plant parameter data sheets were transmitted to the CECC about every 30 minutes in accordance with EPIP-6 (BFN Only)	
57.	TSC accident assessment forms were completed and transmitted to the CECC each hour in accordance with EPIP-6. (SQN Only)	

	OSC CRITERIA	☑
1.	The OSC Manager was clearly in control and maintained OSC activities in an orderly manner. (4.1.3)	
2.	Congestion and noise levels in the OSC were kept to an acceptable level such that OSC activities were not adversely effected. (4.3.2)	
3.	The OSC Manager appeared to be knowledgeable of his duties and responsibilities. (4.1.3)	
4.	Prior to the deployment of OSC teams, each task was adequately planned and the hazards evaluated. (7.1.2)	
5.	The dispatching of OSC teams was orderly, organized, prompt, and consistent with TSC established priorities and authorization. (4.3.6, 7.1.1)	
6.	Each OSC response team member was checked for emergency response training, SCBA training, current whole body count, current MPC hours, and remaining allowable dose. (7.1.6)	
7.	Each OSC response team was briefed, in a single briefing, on the technical aspects of the task, existing radiological conditions, plant conditions, potentially hazardous situations, necessary tools or equipment, and the required frequency and method of communication. (7.1.2)	
8.	A team leader was clearly identified for each OSC response team.	
9.	Proper dosimetry was issued to each OSC response team member. (7.1.3)	
10.	Each OSC response team member was issued the necessary and proper respiratory equipment. (7.1.3, 4.1.6)	
11.	Response team task planning included aspects to aid the teams in expediency and exposure reduction.	
12.	Radiological burnout of personnel with key skills was considered in the task planning effort. (4.3.9)	
13.	Team tracking numbers were issued for each OSC response team.	
14.	OSC response teams were predressed and issued dosimetry prior to being called to the briefings when plant conditions are known to require dressout.	
15.	Following activation of the OSC, all response teams were dispatched with the knowledge of and under the direction of the OSC.	
16.	OSC response team members checked hand-held radios, radiological meters, sampling equipment, electronic equipment, and any special equipment, tools, or materials prior to entering the plant.	
17.	Response teams were able to reasonably assess, diagnose, and correct plant equipment problems and demonstrated proficiency in the use of tools, procedures, and protective equipment. (7.1.6, 7.1.7)	
18.	All response teams returned to the OSC and were de- briefed with technical aspects reviewed, unusual radiation levels and conditions reviewed, unusual physical conditions noted, and the need for special tools or equipment identified.	
19.	The location and progress of OSC response teams were kept current (within 15 minutes) as indicated on the OSC status board. (7.1.5)	
20.	Radios, as necessary, were issued to each team and the teams routinely used the radios to report progress. (7.1.5)	
21.	Adequate information was exchanged between the OSC and the response teams to maintain the OSC team tracking board current.	
22.	The information exchanged between the OSC and the OSC response teams was accurate and timely based on current conditions and available information.	
23.	All response teams dispatched prior to activation of the OSC were transferred to the OSC for tracking purposes. (7.1.5)	
24.	The OSC was immediately notified, by the team leader, of any team reassignment or inability to complete its mission.	
25.	OSC response team assignments were periodically reviewed to determine their continued benefit.	
26.	Reliable voice communications were established with the TSC, OSC, Radcon Lab and Chemistry Lab.	
27.	Information obtained from the field was quickly and accurately relayed to the OSC and then on to the TSC.	
28.	OSC, Radcon lab, Chemistry lab, staging area and field team personnel remained aware of any changes in: (2.5.1) - Emergency conditions - Emergency classification - Protective action recommendations - Radioactive release status	
29.	OSC staff briefings were performed at each significant event and about once every hour.	
30.	Radcon survey results were accurately transferred, in a timely manner, from the Radcon lab to the TSC and OSC.	

31.	Adequate information was exchanged or provided for the OSC, Radcon Lab, TSC, and Chemistry Lab to effectively perform their tasks.	
32.	The information exchanged between the OSC, TSC, Radcon Lab and Chemistry Lab was accurate and timely based on current conditions and available information.	
33.	OSC status boards were maintained current to a degree that they did not adversely impact the ability of the plant to mitigate the event.	
34.	OSC status boards were maintained accurate, based on available information, such that the OSC staff remained aware of important items and did not adversely impact event mitigation.	
35.	Adequate information was exchanged between the OSC, response teams, and the TSC to maintain the OSC status board information accurate and up to date.	
36.	Chronological logs were maintained to document critical decisions, assignments, important events, data, calculations, and actions taken.	
37.	OSC logs were maintained in a legible form.	
38.	The "position title", "plant", "date", "unit", and "personnel on duty" blanks were completed for each OSC position's log.	
39.	Radcon personnel provided adequate external and internal exposure estimates, in OSC task planning processes, and provided recommendations to minimize exposures. (4.3.9)	
40.	Radcon technicians in the field actively monitored and managed exposures to prevent unnecessarily exceeding personnel exposure limits.	
41.	Radcon responders appeared to be familiar with their equipment, procedures, and responsibilities.	
42.	Radcon promptly implemented or recommended appropriate iodine protective measures when conditions warranted. (Masks, KI, etc.) (4.1.6)	
43.	All response teams dispatched from the OSC had a Radcon member when plant radiological conditions warranted.	
44.	Radcon personnel provided detailed radiological briefings to each OSC response team prior to dispatch.	
45.	For a site evacuation, if radiological conditions warranted, a Radcon technician was dispatched to the site access control point to survey vehicles and personnel leaving the site. (BFN only)	

46.	Two radiological survey teams were formed and dressed out promptly upon activation of the OSC and effectively performed radiological surveys to determine the radiological conditions of the plant.	
47.	Applicable procedures were available in the OSC and were properly applied.	
48.	If dispatched prior to activation of the OSC, the Fire Brigade Team was located, assigned a tracking number, and tracked from that point.	
49.	Contamination control activities were conducted to minimize or prevent disruption of the TSC, OSC, or Control Room due to contamination during the event.	
50.	If requested by the Site Emergency Director, site boundary surveys were conducted, with results recorded and promptly reported to the OSC.	
51.	The principles of ALARA were effectively applied by Radcon personnel.	
52.	Air samples and contamination smears were collected and analyzed in a timely manner.	
53.	Results of all inplant and site boundary surveys were reported to the OSC in a timely manner.	
54.	The results from inplant and site boundary surveys were accurately transferred to and tracked on the OSC status boards.	
55.	Significant changes in radiological conditions were identified and appropriate personnel protective actions taken.	
56.	In-plant monitors were effectively utilized by the OSC to identify and track changing radiological conditions.	
57.	Individual internal and external exposures were managed to prevent exceeding established radiological limits. (Occupational limits of 10CFR20: 3R/Qtr and 5(N-18) R/Lifetime Whole Body per Appendix B, Table 1 Column 1) (7.1.4)	
58.	Personnel protection requirement guidelines of EPIP- 14 were implemented as appropriate. (SQN only)	
59.	Any individual projected to exceed or who actually exceeded site limits, received a SED authorized extension in accordance with EPIP-15. (SQN: 1 R/Qtr or BFN: 3R/Qtr)	
60.	Internal and external exposures were tracked to determine total doses. (7.1.4)	
61.	Internal exposures were minimized by appropriate respiratory protection for the radiological conditions.	
62.	Personnel contamination was controlled by the issue and proper use of protective clothing.	

63.	Contaminated personnel were identified then efficiently and adequately decontaminated (unless medical conditions dictate otherwise).	
64.	Available information was effectively shared within the OSC among Radcon, Fire Protection, Chemistry, Operations, OSC staging area and technical support. (i.e. I&C, Mech, Elect., etc.)	
65.	Key managers in the OSC frequently consulted with each other and effectively exchanged information during decisionmaking activities.	
66.	Information exchange within the OSC was adequate for the various groups to effectively perform their jobs.	
67.	Communications between the various OSC groups did not delay or prevent the mitigation of critical plant events.	
68.	If dispatched prior to activation of the OSC, the MERT was located, assigned a tracking number, and tracked from that point.	
69.	The OSC Manager maintained oversight of OSC activities, plant conditions, and any corrective actions taken.	
70.	The OSC implemented TSC requests/directions in an effective and timely manner.	
71.	OSC response teams were kept aware of any changing radiological or physical plant conditions.	

OSC RESPONSE TEAM CRITERIA		☑
Team: ___ Task: _____ _____Task Identified by TSC/Control Room _____Team Planning Started _____Team Planning Completed _____Personnel requested to report to OSC _____Team Personnel arrived at OSC _____Team Briefing Began _____Team Briefing Ends _____Team Dispatched from OSC _____Team Obtains Necessary Equipment _____Team Obtains Necessary Resp Eqpt _____Team Enters the Plant _____Team Arrives at the Work Location _____Team Begins Task _____Team Completes Task _____Team Exits After Completing Task _____Team Arrives at the OSC _____Team Begins Debriefing _____Team Completes Debriefing		
1.	The team maintained a log of repair actions taken.	
2.	The task was adequately planned and the hazards evaluated prior to deployment of the team. (7.1.2)	
3.	The response team's dispatch was organized, orderly, prompt, and consistent with the TSC established priorities and authorization. (4.3.6, 7.1.1)	
4.	Each response team member was checked for emergency response training, SCBA training, current whole body count, current MPC hours, and remaining allowable dose. (7.1.6)	
5.	The response team was briefed on the technical aspects of the task, existing radiological conditions, plant conditions, potential hazardous situations, necessary tools or equipment, and the required frequency and method of communications in a single briefing. (7.1.2)	
6.	A team leader was clearly identified for each response team.	
7.	Proper dosimetry was issued to each response team member. (7.1.3)	
8.	Each response team member was issued the necessary respiratory equipment. (7.1.3, 4.1.6)	
9.	Team task planning included aspects to aid the team in expediency and exposure reduction.	
10.	Radiological burnout of personnel with key (critical) skills was considered in the task planning effort. (4.3.9)	
11.	The response team was predressed and issued dosimetry prior to the briefing when the plant conditions are known to require dressout.	
12.	Team members checked hand-held radios, radiological meters, sampling equipment, electronic equipment, and any special equipment, tools, or materials prior to entering the plant.	
13.	Team members were able to reasonably assess, diagnose, and correct plant equipment problems and demonstrated proficiency in the use of tools, procedures, and protective equipment. (7.1.6, 7.1.7)	
14.	The response team returned to the OSC and was de- briefed with technical aspects reviewed, unusual radiation levels and conditions reviewed, unusual physical conditions noted, and the need for special tools or equipment identified.	
15.	A radio, if necessary, was issued to the team and the team routinely and as directed in the OSC briefing used the radio to report progress.	
16.	If reassigned or unable to complete the assignment, the team leader immediately notified the OSC.	
17.	Adequate internal and external exposure estimates were provided by Radcon in the task planning process. (4.3.9)	
18.	Radcon personnel provided recommendations to minimize exposures during the task planning process. (4.3.9)	
19.	If conditions warranted, a Radcon member was dispatched with the team.	
20.	The response team was issued an OSC tracking number.	
21.	If potassium iodide (KI) was issued, the team members were given the KI package instructions and any questions about KI answered.	
22.	The response team contained an Operations member. (This is not a required item, but may provide useful information during the evaluation.)	

FIRE BRIGADE CRITERIA		☑
	_____Fire Reported] _____Fire Brigade Dispatched _____Incident Commander On Scene _____Communications Established _____Fire Brigade On Scene _____Fire Brigade Engaged _____Fire Extinguished or Under Control _____Fire Brigade DeBriefing Begins _____Fire Brigade DeBriefing Completed	
1.	Upon notification of a fire, an Incident Commander was promptly dispatched to the scene.	
2.	An incident command post was properly established in a safe area at or near the scene and its location clearly reported (announced).	
3.	The Incident Commander promptly established and maintained communications with the Control Room. (7.1.5)	
4.	The Fire Brigade Team arrived on scene in a timely manner with sufficient fire fighting and protective equipment. (7.1.1)	
5.	Response sectors were properly established and the team members briefed.	
6.	Staging areas, with additional equipment and personnel, were established in safe locations and were clearly announced.	
7.	The team properly assessed the physical situation and identified any hazards associated with the incident. (radiological, physical, chemical, etc.)	
8.	Fire brigade team communications (radio, face-to- face) were professional, clear, and effective.	
9.	Fire fighting equipment selection, placement, and use was appropriate and effective.	
10.	Fire brigade team members demonstrated an adequate knowledge of fire fighting tactics and skills.	
11.	The Fire Brigade Leader's fire fighting strategy and tactics were appropriate for the situation.	
12.	The Fire Brigade Leader's command and control of the situation and interaction with support personnel was adequate and effective.	
13.	The interaction and coordination between the Incident Commander and the Fire Brigade Leader was adequate and effective.	
14.	Radcon personnel provided sufficient and prompt radiological information to the Fire Brigade Leader and Incident Commander.	
15.	Security personnel provided sufficient and effective scene control (access, escorts, etc.).	
16.	The Fire Brigade Team was briefed prior to dispatch or by radio enroute to the scene. (7.1.2)	
17.	The protective equipment provided to the Fire Brigade (SCBA, radiological monitoring, turnout gear, etc.) and its use was effective and adequate for the situation. (7.1.3)	
18.	Fire Brigade team exposure was monitored constantly and did not exceed EPA guidelines. (7.1.4)	

	MEDICAL EMERGENCY RESPONSE TEAM (MERT)	☑
	_____Medical Emergency Reported _____MERT Team Dispatched _____Incident Commander On Scene _____Communications Established _____MERT On Scene _____Victim Transported _____MERT Team DeBriefing Started _____MERT Team DeBriefing Completed	
1.	Upon notification of a medical emergency, an Incident Commander was promptly dispatched to the scene.	
2.	An incident command post was properly established in a safe area at or near the scene and its location clearly reported (announced).	
3.	The Incident Commander promptly established and maintained communications with the Control Room. (7.1.5)	
4.	The medical emergency response team (MERT) arrived on scene in a timely manner with proper and sufficient medical and protective equipment. (7.1.1)	
5.	The interaction and coordination between the Incident Commander and MERT leader were adequate and effective.	
6.	The medical situation was properly assessed and any medical injuries adequately identified.	
7.	The team properly assessed the physical situation and identified any hazards associated with the incident. (radiological, physical, chemical, etc.)	
8.	The MERT took adequate personnel protective actions for the hazards encountered.	
9.	MERT exposures were monitored constantly and did not exceed EPA guidelines. (10.1.3)	
10.	MERT communications (radio and face-to-face) were professional, clear, and effective.	
11.	The MERT provided appropriate and satisfactory emergency medical care for the injuries sustained.	
12.	The priority of medical and radiological concerns was properly established for contaminated or potentially contaminated injured personnel. (10.1.1)	
13.	Proper contamination control measures were implemented for personnel and equipment during the treatment, transport, and following transport of contaminated or potentially contaminated injured personnel. (10.1.2)	
14.	The Incident Commander and/or MERT leader were provided sufficient and prompt radiological information.	
15.	Security personnel provided sufficient and effective scene control such that there was no associated delay in MERT response or victim transport. (access control, personnel escorts, ambulance escort, etc.)	
16.	The means of transportation for injuries requiring offsite transport was determined by the severity of the injuries. (load-and-go or offsite ambulance support)	
17.	Radcon personnel accompanied contaminated or potentially contaminated transport victims in the ambulance to provide radiological services as required. (10.2.6)	
18.	The ambulance medical attendant provided a follow-up notification to the receiving hospital immediately upon site departure. (at a minimum provided ETA and confirmation of medical and radiological conditions.) (10.2.4)	
19.	Agreement hospital facilities and personnel were properly prepared for the arrival of contaminated injured personnel. (10.1.4)	
20.	The victim's radiological and medical condition was properly assessed and prioritized by the hospital staff. (10.2.7, 10.1.4)	
21.	Adequate samples were properly collected (and labeled) for radiological assessment by the hospital staff. (10.1.4)	
22.	Proper contamination control measures were implemented during the treatment and decontamination of the patient by the hospital staff. (10.1.4)	
23.	The MERT leader command and control of the situation and his interaction with support personnel was adequate and effective.	

	CECC CRITERIA	☑
1.	Initial notification to the State of an emergency classification occurred within 5 minutes after the Operations Duty Specialist (ODS) was notified by the Site. (3.1.1.3)	
2.	Initial notification to the State of an emergency classification occurred within 15 minutes of the emergency declaration by the SED. (3.1.1.3)	
3.	The ODS accurately recorded the required information on the appropriate ODS incident form (App A or B) and relayed that information to the State and local agencies. (3.1.1.3)	
4.	The CECC Director clearly announced when the CECC was activated. (3.7.9)	
5.	The CECC Director was clearly in control and maintained CECC activities in an orderly manner. (3.7.4)	
6.	Congestion and noise levels in the CECC were kept to an acceptable level such that CECC activities were not adversely effected. (3.7.6, 5.3.3)	
7.	The CECC Director appeared knowledgeable of his duties and responsibilities. (3.1.2.7, 5.3.2)	
8.	CECC staff briefings were performed at each significant event and at least every 60 minutes.	
9.	The CECC Director provided adequate information during the periodic briefings such that CECC personnel remained aware of any changes in: - Emergency conditions - Emergency classification - Protective action recommendations - Radioactive release status	
10.	The appropriate NSSS vendor, INPO, DOE, and primary and excess property insurance carriers were notified promptly in accordance with EPIP-1 App. B.	
11.	The Resource Support Coordinator adequately obtained and coordinated off-site TVA and non-TVA logistics and technical support as requested, and did so in a timely manner. (3.1.1.1, 3.7.14)	
12.	The Radiological Emergency Notification Directory (REND) was readily available and provided adequate contact information such that requested offsite support was not significantly delayed.	
13.	Emergency funding was promptly authorized by the Senior VP Nuclear or his designee when needed.	
14.	Effective communications were conducted between the CECC and other emergency centers (TSC, JIC, RMCC, State and NRC). (i.e. disregarding the accuracy, the information transmitted from one center was the information disseminated in the receiving center)	
15.	The information exchanged between the CECC and other emergency centers was accurate and timely based on the current conditions and available information.	
16.	A TVA liaison was provided for the State Emergency Operations Center following emergency classifications of Site Area and General Emergency.	
17.	Emergency classification changes were discussed, with concurrence, between the TSC and CECC and when conditions allowed the State was informed prior to official declaration.	
18.	Plant and offsite status reports were periodically provided to the RMCC Coordinator.	
19.	Communications between the CECC dose assessment and the State dose assessment teams were promptly established and maintained.	
20.	Adequate information was exchanged or provided for the Plant Assessment Team to effectively perform their tasks.	
21.	Adequate information was exchanged or provided for the Core Damage Assessment Team to effectively perform their tasks.	
22.	The information flow between the Plant Assessment and Dose Assessment Teams was sufficient to allow effective offsite dose assessments and offsite dose projections, maintain an awareness of plant status, and anticipate the consequences of progressing events. (3.2.6)	
23.	Information flow between the Plant Assessment and Dose Assessment Teams was timely to the extent that dose assessments were maintained current with the Changes in plant status and conditions. (3.2.8)	
24.	Environmental monitoring teams were effectively deployed, if a release was occurring or anticipated, to appropriate locations to intercept the plume. (3.2.2)	
25.	CECC staff (Environs Assessor) provided adequate direction regarding van team movement, positioning, and the samples or measurements to be taken. (3.2.2, 3.2.3)	
26.	Positioning of environmental monitoring vans was effectively coordinated between the CECC (TVA) and RMCC (State) coordinators.	

27.	The Dose Assessment Team was provided with sufficient information from site chemistry (TSC), meteorology, environs assessment, plant assessment, core damage assessment, and the engineering lab to develop adequate current and projected dose assessments. (i.e. real time and forecast met data, release rates, release paths, plant status, potential or anticipated release rates, water and atmosphere dispersions, etc.)	
28.	Plume plots were generated and provided in a timely manner to the CECC staff, TSC, and State for ongoing releases or to indicate estimated centerline locations for potential releases.	
29.	Dose assessments, when conducted, were approved by the Radiological Assessment Coordinator (RAC) and distributed to the CECC staff, TSC, and State in accordance with EPIP-8 App D.	
30.	Environmental/Radiological data was effectively obtained from field teams and plant monitors and utilized for dose projections. (3.1.1.2)	
31.	Dose Assessment promptly and correctly projected the direction and maximum dose within the plume EPZ and the distance at which the EPA PAGs were expected to be exceeded, for ongoing releases. (3.2.5)	
32.	The initial source term determination and any changes were provided to Dose Assessment in a timely manner. (1.7.4)	
33.	Current conditions and forecast meteorological information was readily available from both the Meteorological Data Station and offsite facilities. (3.2.7)	
34.	Dose Assessment provided the CECC staff with protective action recommendations based on dose assessment results in accordance with CECC-EPIP-8 Appendix C	
35.	The State was provided with dose assessment updates hourly and following any significant change.	
36.	The CECC Director made protective action recommendations that were appropriate for the emergency classification, plant conditions, radiological and meteorological conditions, and consistent with the EPA PAGs. (3.3, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6)	
37.	Protective action recommendations were provided to the State in a timely manner. (3.1.1.3)	
38.	If the CECC was staffed and functional, protective action recommendations were provided to the State within 15 minutes of a General Emergency declaration. (3.3.3)	

39.	Periodic State Information forms (CECC-EPIP-1 App C) were provided to the State on at least an hourly basis.	
40.	The CECC Director confirmed that offsite authorities were aware of any protective action recommendations. (3.5.3)	
41.	The CECC determined from the State and local authorities the actual offsite protective actions taken and maintained awareness of any changes. (3.5.4, 3.5.5)	
42.	The State Communicator promptly established and maintained communications with the State Emergency Operations Center. (3.4.1, 3.4.3)	
43.	State authorities were initially briefed by the State Communicator and were kept informed of any changes in: (3.4.2) - Emergency conditions - Emergency classification - Radioactivity releases - Potentially effected population - Projected population doses - Protective action recommendations	
44.	The Plant Assessment Team provided assistance in the assessment of ongoing events and adequately assessed long-range projected plant conditions.	
45.	Plant Assessment provided accident assessment information to the CECC Director at least hourly, including protective action recommendations.	
46.	The Plant Assessment Team leader made prudent and timely protective action recommendations based upon the team's assessment.	
47.	Adequate information was exchanged between the CECC and the site to maintain the CECC status board information accurate and up to date. (3.7.13)	
48.	CECC status boards were maintained current to a degree that they did not adversely impact the ability of the CECC to mitigate the consequences of the event. (3.7.13)	
49.	CECC status boards were maintained accurate based on available information such that the CECC staff remained aware of important items and did not adversely impact mitigation activities. (3.7.13)	
50.	TVA Public Safety was promptly notified by the ODS when the CECC was activated.	
51.	Public Safety immediately established access control posts outside the CECC and Broadcast Operations Facility and maintained access control for the duration of the event. (8.1.3)	

52.	All personnel granted access to the CECC were pre- authorized members of the CECC Emergency team or were authorized by the CECC Director, Plant Communicator, or designated EP staff.	
53.	NRC responders to the CECC were adequately briefed upon arrival and kept informed of any changes in: (3.6.1, 3.4.2) - Emergency conditions - Emergency classification - Radioactivity releases - Potentially effected population - Projected population doses - Protective action recommendations	
54.	The NRC was kept informed of all offsite protective actions taken by State and Local authorities. (3.5.4)	
55.	CECC staff members were proficient in the use of their respective equipment (PACDAM, SPDS, RED, FRED, telephone systems, radios, etc.), technical references, procedures, and the requirements of their respective positions. (1.6.4, 3.2.9)	
56.	Applicable emergency procedures were readily available in the CECC and were properly applied.	
57.	Key decisions, assignments, important events, data, calculations, and actions taken were chronologically recorded in the CECC logs. (3.7.10)	
58.	CECC logs were maintained in a legible form.	
59.	The "position title", "plant", "name", and "date" were completed for each CECC position's log.	
60.	Field personnel routinely reported their individual accumulated doses to the Environs Assessor/Field Coordinator at approximately 100 mr increments and the information was recorded on CECC-EPIP-9 Attach G. (6.2.5)	
61.	Field personnel advised the Environs Assessor/Field Coordinator anytime whole body doses approached their individual exposure limits.	
62.	When required, emergency exposure limits for environs monitoring team members were authorized by the appropriate authority and documented on CECC-EPIP-9 Attachment H. - If vans are under site control, SED authorization is required - If vans are under CECC control, RAM authorization with CECC Director concurrence is required.	
63.	Field team personnel adequately demonstrated the proper use of required personnel protection equipment. (6.2.2)	
64.	Radio communications with environmental monitoring teams were accurate, clear, and concise.	

65.	Survey results and general information flow between the environmental monitoring teams and the CECC or site were frequent, timely, and accurate. (6.2.11)	
66.	Briefings were provided to the environmental monitoring vans at each significant event and at least once an hour. (6.2.6)	
67.	The environmental monitoring vans contained sufficient equipment and supplies, operated properly, and adequately supported the needs of the monitoring team. (6.2.8)	
68.	Environmental monitoring van communication systems operated properly and adequately supported the needs of the monitoring team, including full coverage of the 10 mile EPZ. (6.2.10)	
69.	The monitoring van instrumentation was calibrated and instrumentation was available to detect Iodine at levels as low as 1E-7 uCi/cc under field conditions. (6.2.8, 6.2.9)	
70.	The Plant/Core Damage Assessment Team effectively used results of the chemistry and post-accident sampling to redefine or confirm plant/reactor status or the emergency classification. (1.7.2, 3, 4)	
71.	Ongoing activities, onsite and offsite, were periodically reviewed to determine their continued value given the existing plant conditions. (3.2.8, 3.2.4)	
72.	CECC personnel performing assessments and/or involved in decision-making processes remained aware of important trends or changes in plant status. (3.2.8, 3.2.6, 3.2.7)	
73.	The CECC staff confirmed the event classification at least every 2 hours.	
74.	If environmental monitoring teams were dispatched prior to activation of the CECC, a smooth and orderly transfer of van control occurred between the site and the Environs Assessor/Field Coordinator.	
75.	The transfer of responsibilities from the SED to the CECC was clear, orderly, and timely. (3.7.8)	

	ENVIRONMENTAL MONITORING	☑
1.	The plant environmental monitoring van was prepared and dispatched in a timely manner.	
2.	The environmental monitoring team members demonstrated their ability to properly follow the van check-out procedures.	
3.	The environmental monitoring van was equipped with adequate equipment and proper procedures.	
4.	Adequate communications were established and maintained between the plant monitoring van and the RADCON Lab, TSC, and or CECC.	
5.	An onsite environmental team was promptly dispatched and survey results were recorded and reported to the CECC.	
6.	Environmental monitoring teams adequately demonstrated the ability to locate monitoring points and the ability to perform a proper plume traverse. (6.2.3)	
7.	Each member of the environmental monitoring team appeared knowledgeable, qualified, and properly trained.	
8.	Environmental monitoring team personnel demonstrated proficiency with their monitoring equipment, radios, meters, procedures and normal practices.	
9.	Field samples were properly taken and appropriately tagged in accordance with CECC-EPIP-9. (6.2.4)	
10.	Environmental monitoring sample collection and analysis was performed efficiently and properly.	
11.	Environmental monitoring survey results were provided to the site/CECC in a timely manner.	
12.	Environmental monitoring teams utilized appropriate techniques to avoid contamination of personnel, equipment, or cross-contamination of samples.	
13.	Field team personnel followed the contamination control and sampling procedures of CECC-EPIP-9.	
14.	Field monitoring personnel adequately applied ALARA principles and adhered to TVA Protective Action Levels of CECC-EPIP-9 attachment 5.	
15.	Environmental monitoring teams were provided and utilized adequate dosimeter. (a 200MR and 5R direct reading dosimeters)	
16.	Field personnel routinely reported their individual accumulated doses to the Environs Assessor/Field Coordinator at approximately 100 mr increments and the information was recorded on CECC-EPIP-9 Attachment G. (6.2.5)	
17.	Field personnel advised the Environs Assessor/Field Coordinator anytime whole body doses approached their individual exposure limits.	
18.	When required, emergency exposure limits for environs monitoring team members were authorized by the appropriate authority and documented on CECC-EPIP-9 Attachment H.(If vans are under site control, SED authorization is required, If vans are under CECC control, RAM authorization with CECC Director concurrence is required.	
19.	Field team personnel adequately demonstrated the proper use of required personnel protection equipment. (6.2.2)	
20.	The environmental monitoring vans contained sufficient equipment and supplies, operated properly, and adequately supported the needs of the monitoring team. (6.2.8.)	
21.	Environmental monitoring van communication systems operated properly and adequately supported the needs of the monitoring team, including full coverage of the 10 mile EPZ. (6.2.10)	
22.	The monitoring van instrumentation was calibrated and instrumentation was available to detect Iodine at levels as low as 1E-7 uci/cc under field conditions. (6.2.8. & 6.2.9)	
23.	The transfer of environmental monitoring team control was clearly announced on the radio for field personnel including acknowledgment.	
24.	Environmental monitoring teams were effectively deployed, if a release was occurring or anticipated, to appropriate locations to intercept the plume. (3.2.2)	
25.	The CECC staff (Environs Assessor) provided adequate direction regarding van team movement, positioning, and the samples or measurements to be taken. (3.2.2 & 3.2.3)	
26.	Positioning of the environmental monitoring vans was effectively coordinated between the CECC (TVA) and RMCC (STATE) coordinators.	

	PUBLIC INFORMATION / JIC CRITERIA	☑
1.	News statements released by TVA were properly coordinated with State, Federal, and NRC representatives. (9.1.2)	
2.	News statements released by the State were provided to TVA prior to their release.	
3.	The CECC communications staff provided adequate information concerning emergency events prior to activation of the JIC.	
4.	The CECC communications staff developed news releases providing information on plant status and any actions being taken on a routine basis.	
5.	News releases were developed by the CECC communications staff in a timely manner. (9.1.1)	
6.	The news releases developed by the CECC communications staff provided an accurate representation of the plant conditions. (9.1.1)	
7.	The CECC Information Manager was clearly in control and maintained public information activities in an orderly manner.	
8.	The CECC Information Manager maintained oversight of information center activities to ensure accurate and timely information was provided throughout the declared emergency.	
9.	Press briefings were conducted on a routine basis to provide updated information on the status of plant conditions and mitigating actions being taken.	
10.	The information disseminated at the periodic press briefings was timely, accurate, and current with plant events.	
11.	The format and information disseminated in the news briefings was coordinated by TVA and non-TVA agencies in organized pre-briefing sessions.	
12.	Periodic news briefings were conducted even if changes in plant status or activities had not occurred since previous briefings. (9.1.6)	
13.	Management personnel conducting periodic briefings adequately addressed media questions or were able to get requested information in a timely manner. (9.2.5)	
14.	Personnel conducting periodic briefings appeared to be knowledgeable, qualified, and competent. (9.2.5)	
15.	Sufficient media relations staff was available to answer media representative calls in a timely manner.	
16.	Sufficient information was provided to the media relations staff to adequately answer incoming media representative calls.	
17.	The information provided to the media relations staff was timely, accurate, and current with plant or offsite conditions.	
18.	Media relations staff personnel appeared to be knowledgeable, qualified, and competent. (9.2.2)	
19.	Sufficient public information staff was available to answer public citizen calls in a timely manner.	
20.	Sufficient information was provided to the public information staff to adequately answer incoming public citizen calls.	
21.	The information provided to the public information staff was timely, accurate, and current with plant or offsite conditions.	
22.	Public Information staff appeared to be knowledgeable, qualified, and competent. (9.2.2)	
23.	Media representatives, at the JIC, were provided with identification tags and were easily distinguishable from local, state and TVA personnel.	
24.	Security measures taken were adequate to insure that media access did not interfere with emergency response activities. (9.1.3)	
25.	Adequate facilities were provided for media reps to work allowing reasonable access to designated agency representatives to obtain official information.	
26.	Media interactions did not interfere with or hinder emergency response activities. (9.1.3)	
27.	Corrective or supplemental information was promptly released in the event of errors or misinformation in news stories. (9.1.4)	
28.	All news releases were reviewed for technical accuracy and approved by the CECC Director.	
29.	Media reports were monitored for accuracy with inaccuracies identified, noted, and corrected by direct interaction with media representatives, press briefings, and public information representatives handling public inquiries.	
30.	Media Relations/Public Information staff personnel were promptly notified of any inaccurate information disseminated or rumors and provided with correct information.	
31.	News releases were concise, providing the basic facts in simple language. (9.1.5)	
32.	Official TVA representatives utilized adequate visual aids (graphics, etc.) to explain plant conditions. (9.1.5)	

33.	Technical briefings were conducted to provide additional information on plant operation and equipment when needed to explain plant-related information. (9.1.5)	
34.	JIC and Public Information communications systems functioned properly to the extent that the dissemination of information to the public was not significantly delayed or prevented.	
35.	JIC and Public Information communications systems adequately supported (i.e. number of phones and proper operation) the needs of the staff and media representatives. (9.2.4)	

	EXERCISE CRITERIA	☑
1.	Control Room controllers did not prompt, coach, or otherwise interfere with the performance of control room personnel. (1.9.1) (Note 1)	
2.	TSC personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
3.	OSC personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
4.	CECC personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11)	
5.	TSC controllers did not prompt, coach, or otherwise interfere with the performance of TSC personnel. (1.9.1) (Note 1)	
6.	OSC controllers did not prompt, coach, or otherwise interfere with the performance of OSC personnel. (1.9.1) (Note 1)	
7.	CECC controllers did not prompt, coach, or otherwise interfere with the performance of CECC personnel. (1.9.1) (Note 1)	
8.	Field personnel participating in the exercise were not pre-positioned prior to commencement. (1.9.11) (Note 2)	
9.	Technical accuracy of the scenario was within the scope of reasonably expected plant conditions.	
10.	The scenario adequately anticipated significant player actions and players were provided the associated supporting data.	
11.	Players had no prior knowledge of the exercise scenario initiation time. (Players may be aware of the exercise date due to prior release to the news media to prevent unnecessary public concern)	
12.	Player actions did not imply prior knowledge of scenario details beyond those attributed to normal insight or expectations.	
13.	A players critique was conducted following the exercise and comments recorded for evaluation.	
14.	A controllers critique was conducted following the exercise and comments recorded for evaluation.	
15.	Player and controller comments were evaluated, categorized and prioritized by the lead controllers resulting in a clear and accurate synopsis of the exercise.	
16.	The scenario was sufficiently difficult to exercise capabilities of the emergency plan and response personnel.	

Controller: _____ *Exercise Notes* Date: _____ Page: ___

Time	Events, Notes, Explanation, etc.
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Controller: _____ *Exercise Notes* Date: _____ Page: ___

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Controller: _____ *Exercise Notes* Date: _____ Page: ___

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Controller: ______________ ***Exercise Notes*** Date: ______ Page: ___

Time Events, Notes, Explanation, etc.

Controller: _____ ***Exercise Notes*** Date: _____ Page: ___

Time	Events, Notes, Explanation, etc.

Controller: _____ ***Exercise Notes*** Date: _____ Page: ___

Time	Events, Notes, Explanation, etc.

Controller: _____ *Exercise Notes* Date: _____ Page: ___

Time	Events, Notes, Explanation, etc.
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Controller: _____ ***Exercise Notes*** Date: _____ Page: ___

Time	Events, Notes, Explanation, etc.

Watts Bar Nuclear Plant
1993 Annual Exercise
Week of October 4, 1993

Revision 0: SDT/NRC/FEMA only
August 8

Revision 1: Initial issuance to all controllers
September 20

Revision 2: Incorporated Controller Comments
October 1

Filing Instuctions for Revision 2

1. **Add** Controller Listing as **FIRST** page of book
2. **Replace COVERPAGE** with new page listing Scenario Develop Team Members
3. **Replace** entire **SCENARIO** Section with undated pages
4. **Add** graphical timeline to back of **SCENARIO** section
5. **Add** T=0:05 **MESSAGE** about overdue RLA
6. **Replace ENVIRIONS** Conversion Factors Page with updated page
7. **Replace** entire **OSC Tasks** section with revised section

BRIEFING PAPER: Morning of Day 2: October 7, 1993

Current Conditions:

Reactor Operators continue to cool the damaged core without incident using the Residual Heat Removal System. Currently, the reactor is at a temperature of 235 °F and a pressure of 200 psi and stable. TVA and Westinghouse core damage experts continue to work on quantifying the exact damage to the core and formulate a plan as to when and how to open the vessel and remove the damaged fuel. No further actions are planned for the next 30 days to allow for decay of the short-lived fission products and the associated reduction in dose rates. During this wait, TVA will be planning which task must be performed and how best to perform these necessary operations with the minimum radiation exposure to the employees.

Radioactive releases from the site are insignificant as all routine gaseous and liquid discharges have been suspended except for building ventilation and there was no major accumulation of radioiodines on the charcoal filters to be releasing their noble gas decay products. Radiation levels inside the Auxiliary Building are steadily decreasing as ventilation slowly dilutes the existing airborne radioactive material as well as the reduction due to settling of particulates. Arrangements have been made for robots to be used to provide permanent repairs to the steam generator safety relief valve.

Numerous onsite radiological surveys are being performed to properly identify and isolate contamination areas and areas with high radiation levels. The site continues to recover damaged or out-of-service equipment on systems that are not effected by the increased radioactive material in the Reactor Coolant or are critical to stable operations (such as redundant cooling capability). The site also began to provide permanent repairs to equipment that had been partially repaired during the exercise in order to have the system available.

1. Centrifugal Charging Pump 1A-A — Replacing damaged Motor Control Center
2. Steam Generator Safety Valve — Fortifying the safety gag using a pipe over both the safety and the gag and welded to the safety valve piping. This will provide a complete isolation of the safety.

In the afternoon and evening of October 6, TVA and State environmental monitoring teams followed the plume north-eastward from the site toward Oak Ridge and tracked the dispersal of the plume. By 6:30 p.m. on 10/6, the plume had reached Harriman and Kingston. Around 8:00 p.m. the plume was entering Oak Ridge and around 10:00 p.m. was exiting the area. The plume was tracked to approximately 50 miles from the site where the maximum concentration was 1.1E-11 uCi/cc. The decision was made to terminate the plume tracking and begin to quantify the dose rates from contamination nearer the site. At around 11:00 p.m. on 10/6, the vans began a general sweep of areas north to east of the plant working their way in from the 50 mile radius.

Briefing Handouts:

1. Hourly map of Plume Position/Travel following termination of exercise
2. Map(s) of environmental monitoring van travels & graphical compilation of dose rate readings for October 6 at 1600 to October 7 at 0800
3. Tabular format of environmental monitoring van readings (dose rate and frisker) from October 6 at 1600 to October 7 at 0800

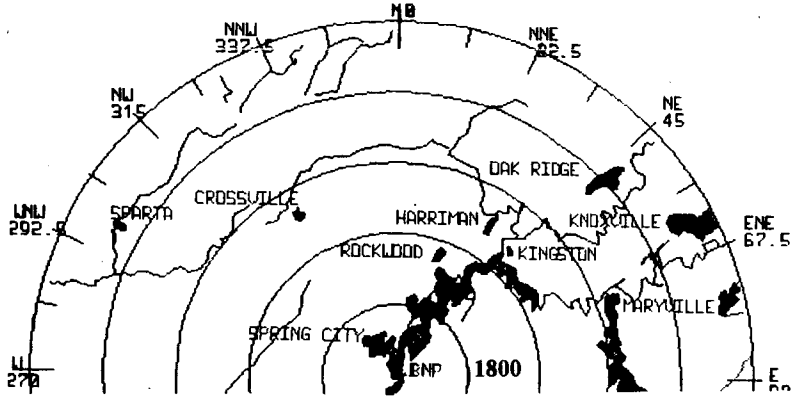
Expected Actions:

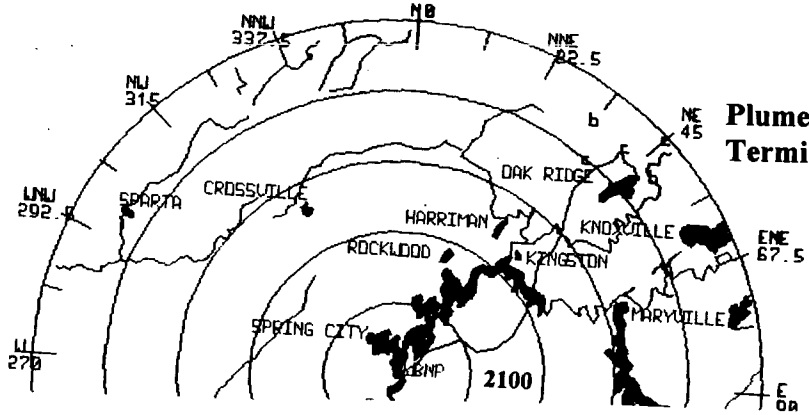
1. The State will determine if any additional persons need to be relocated or if any evacuated persons may return to their homes. The State will also assess Re-entry of persons to care for property and livestock.
2. TVA will continue to assess the core status and develop a plan of action. TVA also provides environmental monitoring support to the State as requested to aid in assessing the offsite conditions.

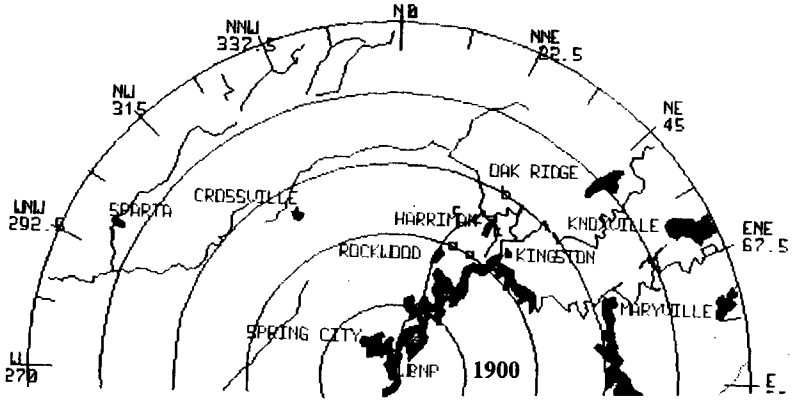
Data Collected up to Morning of Day2

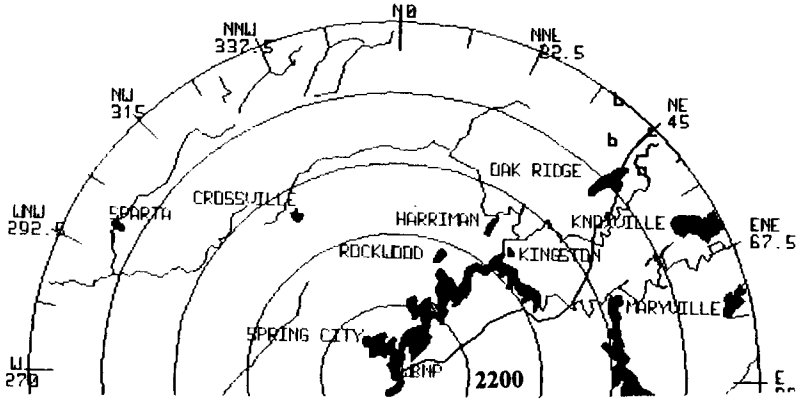
	Monitoring Pt	Dose Rate
A1	50-2	0
A2	50-1	0
A3	40-3	0
A4	40-2	0
A5	40-1	0
A6	30-1	0
A7		0
A8	20-1	0
A9	20-2	0
B10	50-3	0
B11	50-4	0
B12	40-5	0
B13	30-3	0
B14	30-4	0
B15		0
B16	20-4	0
B17	20-3	0
B18	30-2	0
B19	40-4	0
C1		0
C2	8-11	0
C3	7-10	0
C4	6-3	0
C5	5-7	0.03
C6	4-9	0.06
C7	3-7	0.03
C8	4-10	0
C9	5-9	0
C10	5-11	0
C11	3-8	0
C12	2-5	0
C13	1-1	1.5
C14	2-4	0.24
C15	3-3	1.0
C16	2-1	0
C17	1-4	0
C18		0
C19		0
C20		0
C21	7-1	0
C22	10-1	0
C23	9-3	0
D1	8-6	0.21
D2	8-7	0.21
D3	7-6	0.14
D4	5-6	0.08
D5		0.02
D6	7-8	0
D7	8-8	0
D8	10-5	0
D9	9-7	0
D10	9-6	0
D11	10-4	0.08
D12	9-5	0.08
D13	7-4	0.41
D14	7-3	0.41
D15	6-1	0.22
D16	5-4	0.00
D17	4-1	0.03
D18	3-5	0.63
D19	4-3	0.21
D20	4-2	0.46
D21	4-5	0.15
D22	4-4	0.21
D23	4-6	0.13
D24	4-8	0.13
D25	4-7	0.12

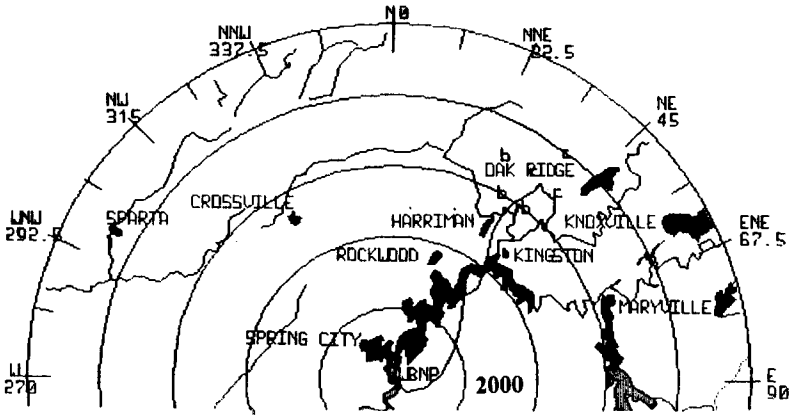
Plume Transport after Termination of Exercise

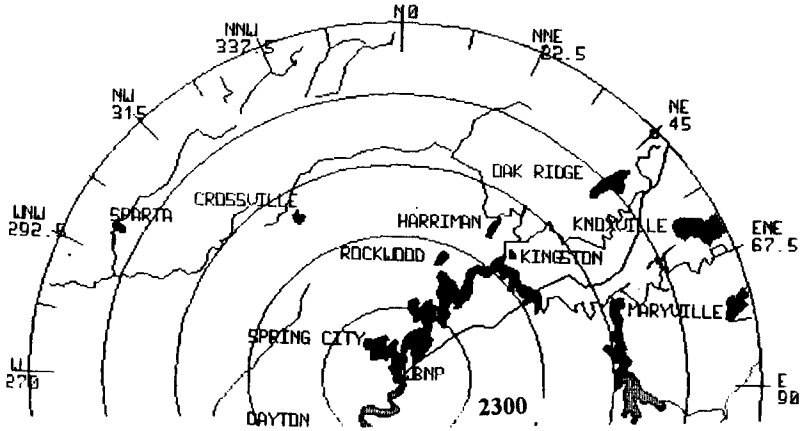






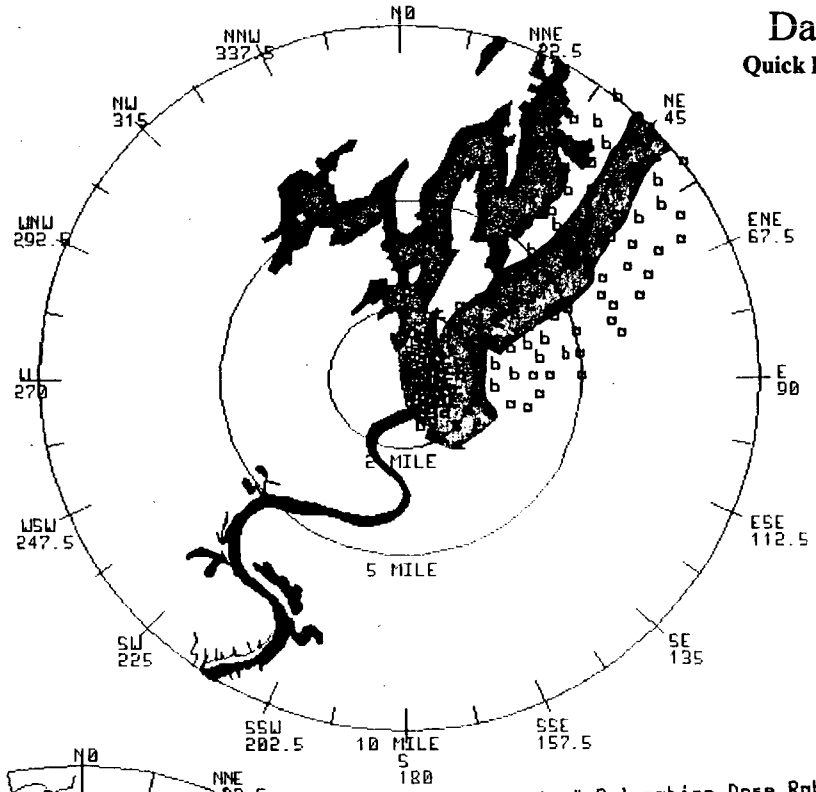


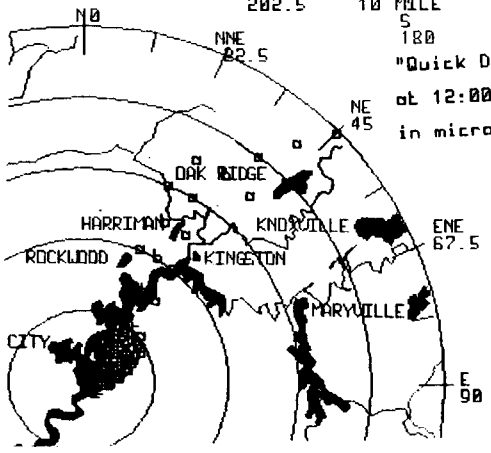




Day 2 - Oct 7, 1993

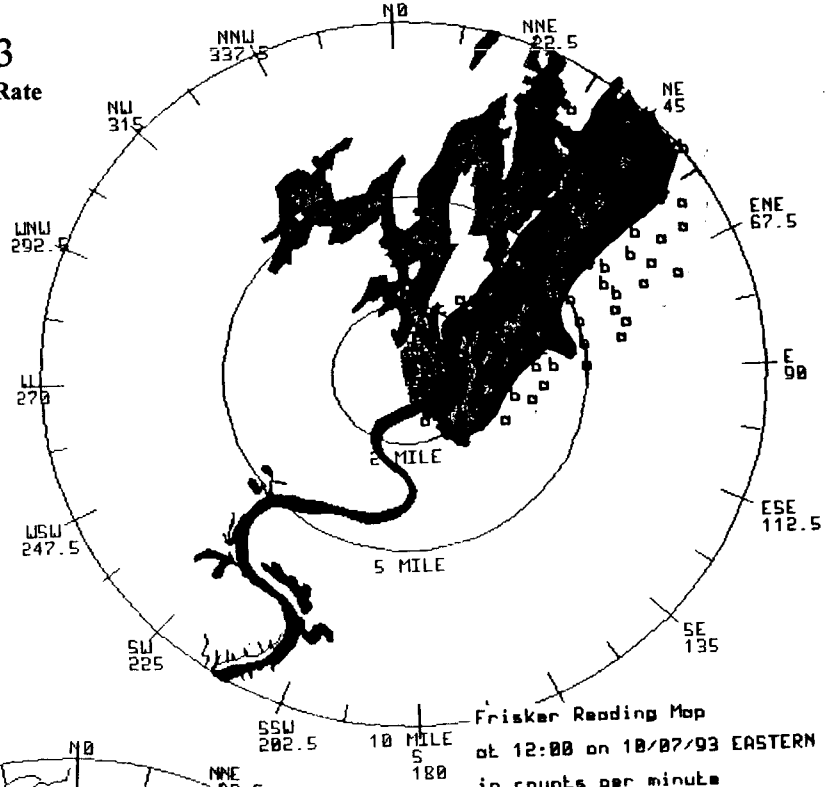
Quick Decision Relocation Dose Rate
Fricker Reading



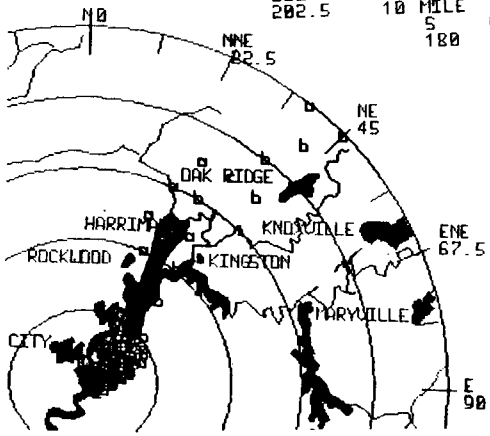


"Quick Decision" Relocation Dose Rate
at 12:00 on 10/07/93 EASTERN
in microR/hour

- a: 20 - 100
- b: 100 - 200
- 200 - 1,000
- 1,000 - 5,000
- 5,000 - 10,000
- > 10,000



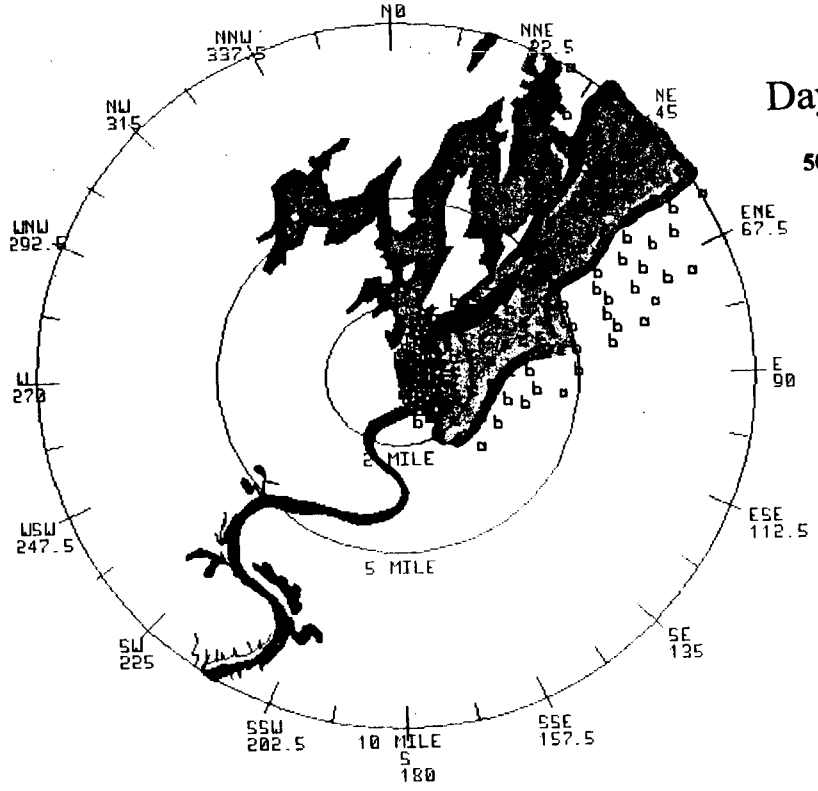
Frisker Reading Map
at 12:00 on 10/07/93 EASTERN
in counts per minute

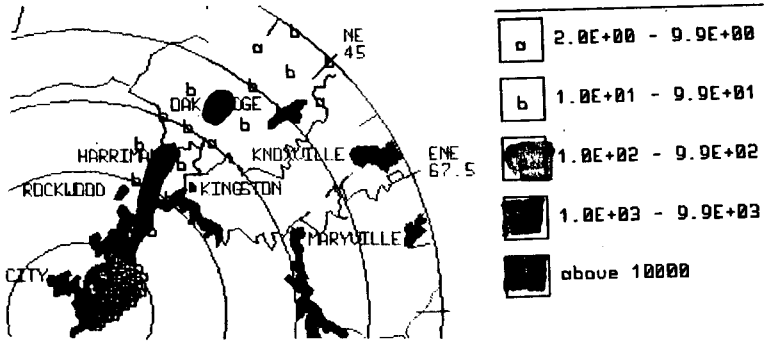


- a: 100 - 500
- b: 500 - 1,000
- 1,000 - 5,000
- 5,000 - 10,000
- 10,000 - 50,000
- > 50,000

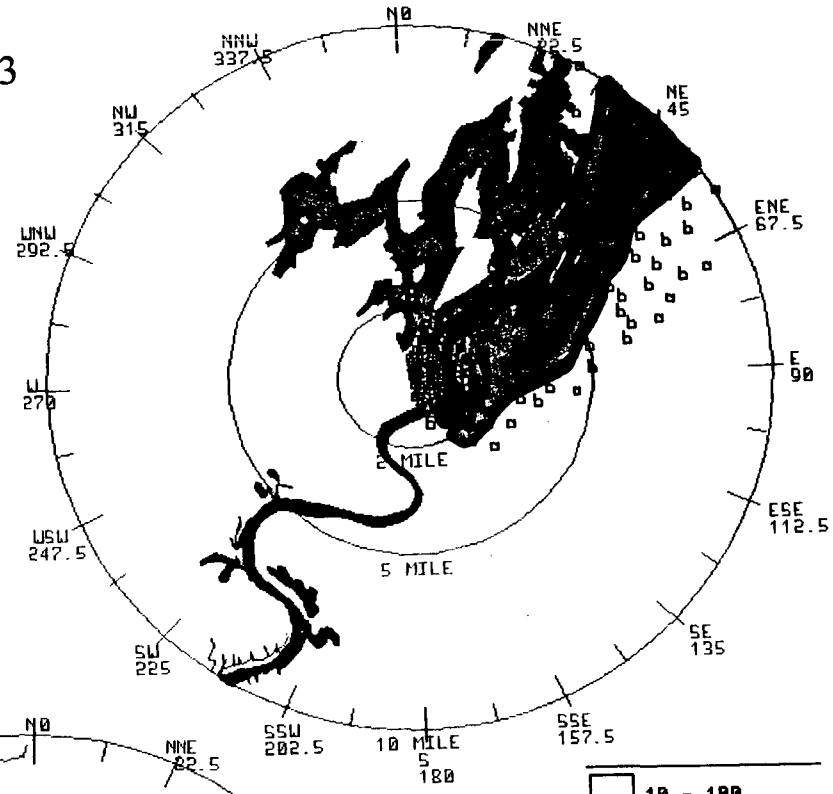
Day 2 - Oct 7, 1993

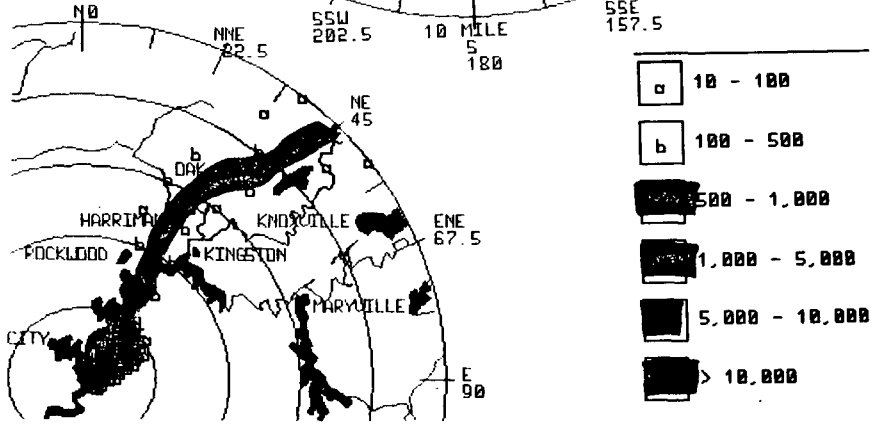
Aerial Fly-Over Data
50 Year Cumulative Dose





Dose Rate at one meter above ground
at 12:00 on 10/07/93 EASTERN
in microR/hour from aerial survey

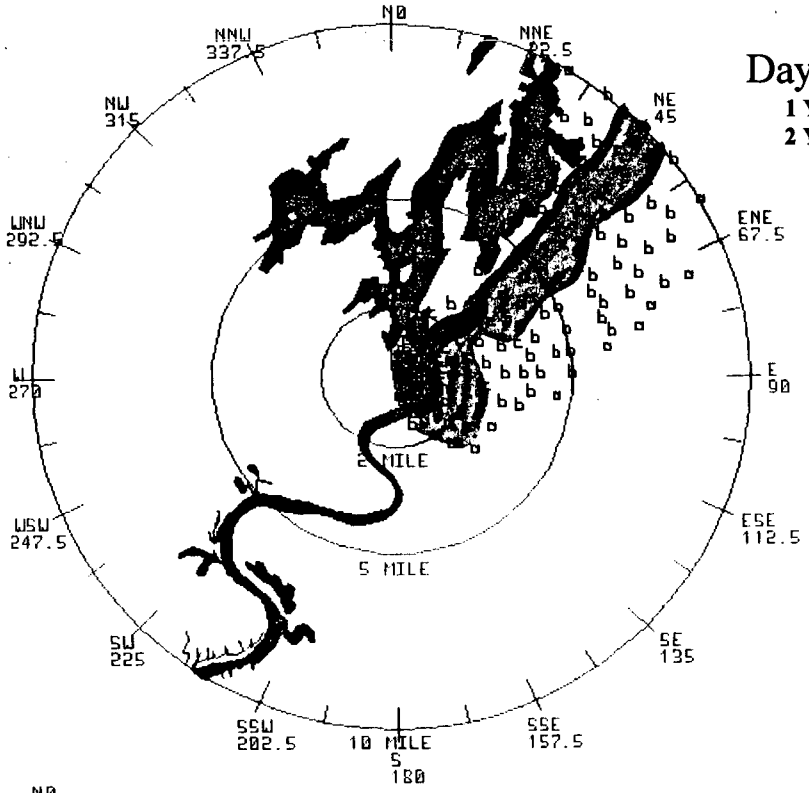


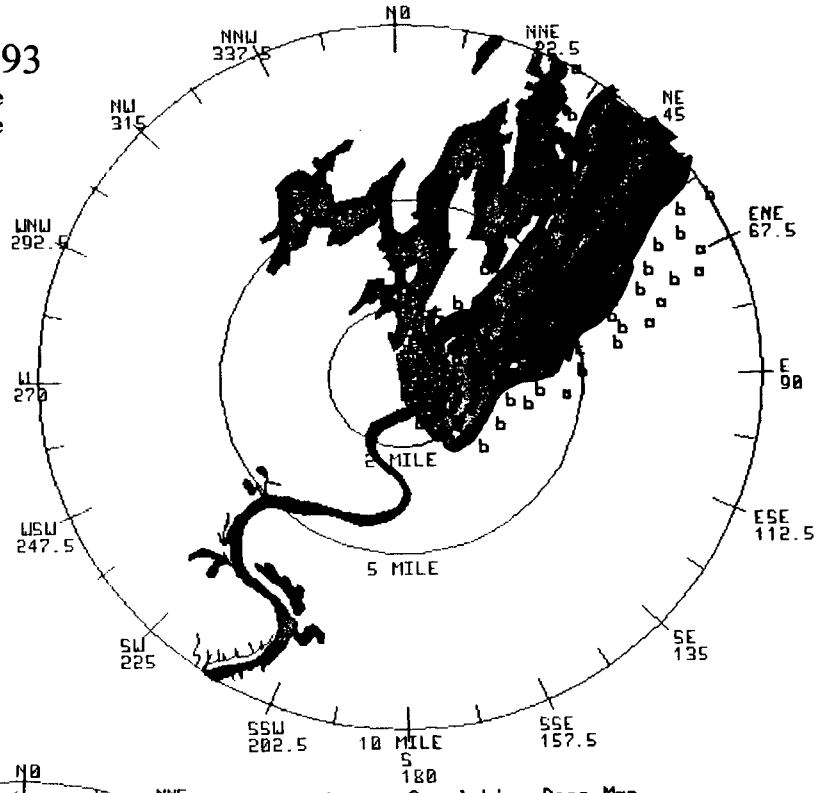


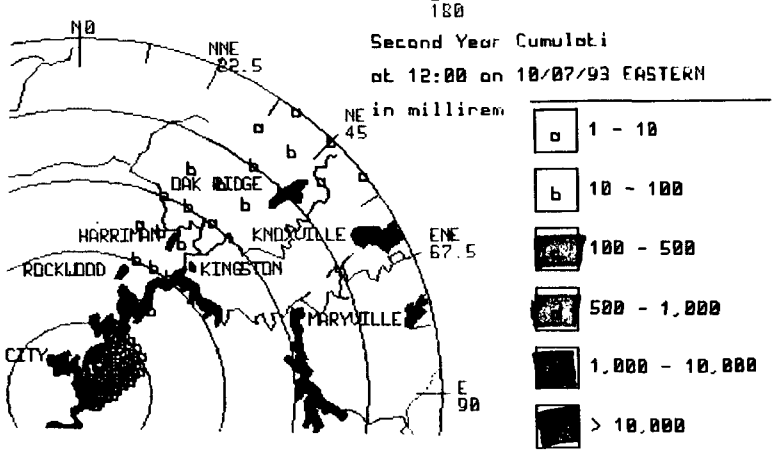
50-year Cumulative Dose Map
at 12:00 on 10/07/93 EASTERN
in millirem

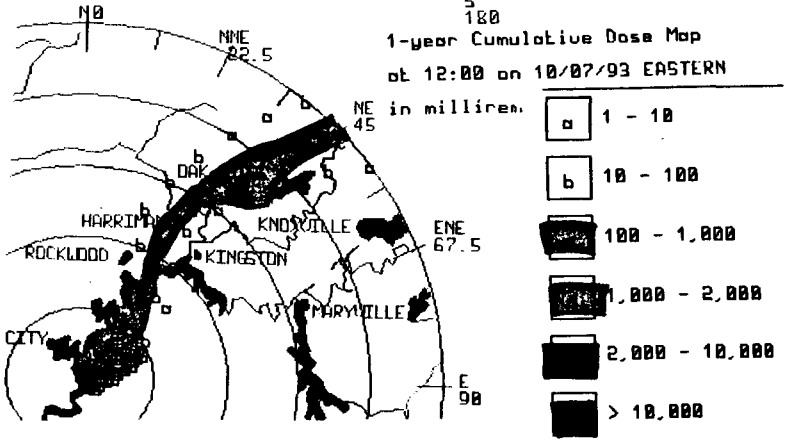
Day 2 - Oct 7, 1993

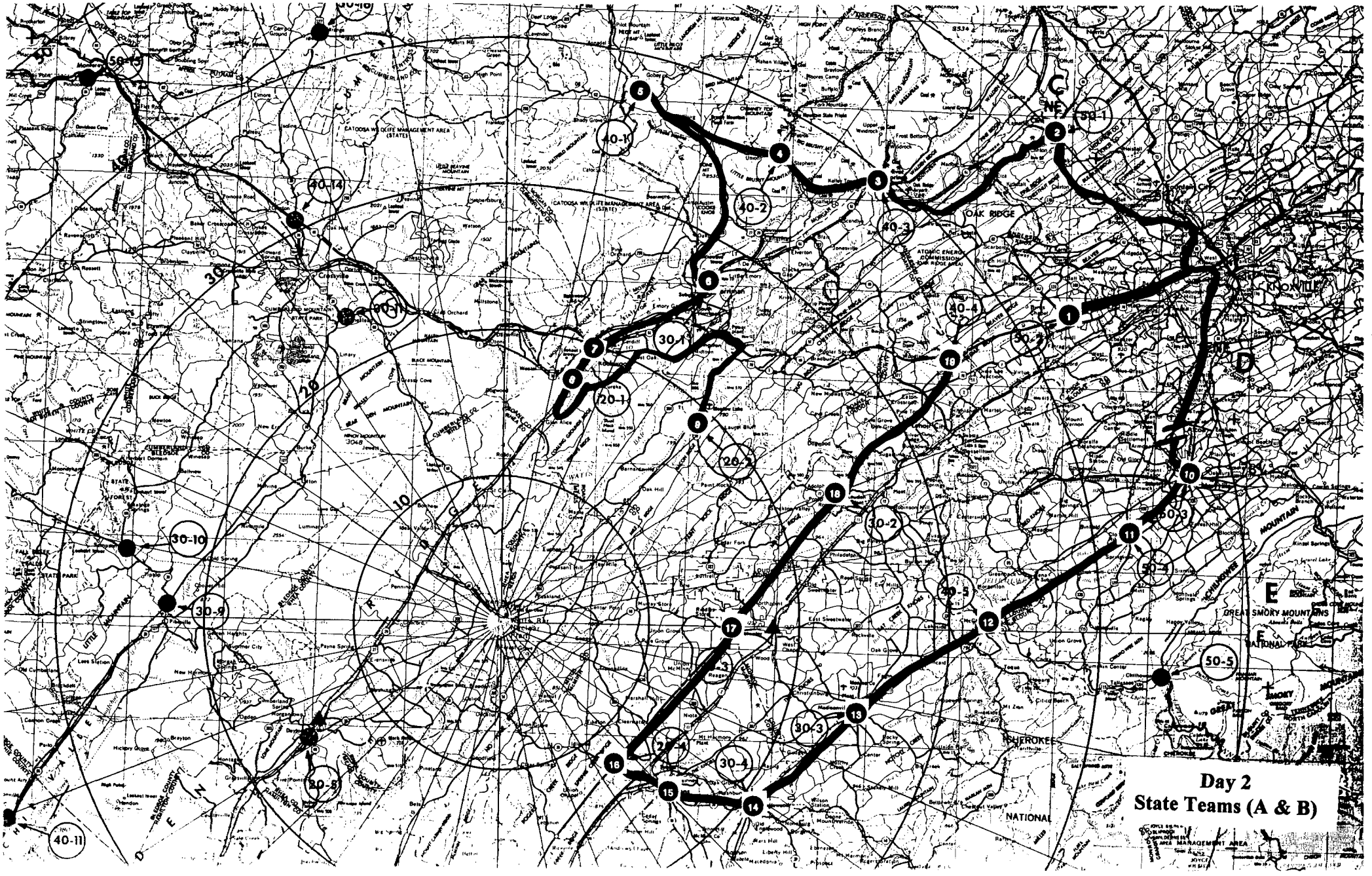
1 Year Cumulative Dose
2 Year Cumulative Dose










Day 2
State Teams (A & B)
OAK RIDGE
KNOXVILLE
CHEROKEE
NATIONAL
GREAT SMOKY MOUNTAINS
NATIONAL PARK
EATOCOSA WILDLIFE MANAGEMENT AREA (STATE)
CUMBERLAND MOUNTAIN STATE PARK
ATOMIC ENERGY COMMISSION OAK RIDGE
A
B
C
D
E
F
1
2
3
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20-1
20-8
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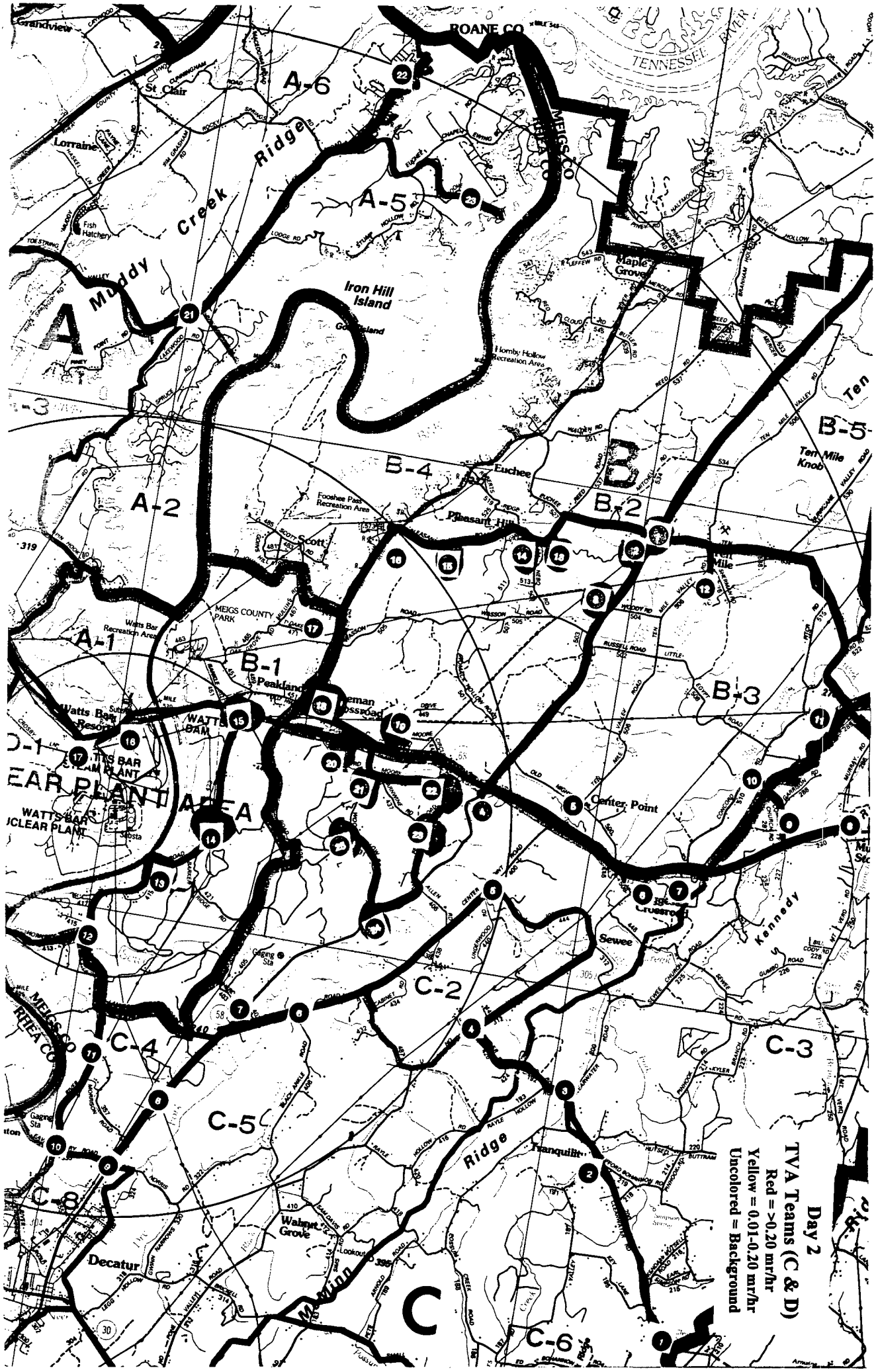
50-5
50-15


Day 2
TVA Teams (C & D)
Red = >0.20 mr/hr
Yellow = 0.01-0.20 mr/hr
Uncolored = Background
ROANE CO
MEIGS CO
TENNESSEE
A-6
A-5
A-2
A-1
B-1
B-2
B-3
B-4
B-5
C-2
C-3
C-4
C-5
C-6
C-8
Muddy Creek Ridge
Iron Hill Island
Ten Mile Knob
Euchee
Pleasant Hill
Scott
Peakland
Watts Bar Reservoir
WATTS BAR STEAM PLANT
WATTS BAR NUCLEAR PLANT
MEIGS COUNTY PARK
Center Point
Sewee
Tranquility
Walnut Grove
Decatur
Maple Grove
Lorraine
St Clair
Grandview
Fish Hatchery
Kennedy Ridge

BRIEFING PAPER: Morning of Day 3: October 8, 1993

(Activities actually conducted on October 7, 1993)

Current Conditions:

Reactor Operators continue to cool the damaged core without incident using the Residual Heat Removal System. Currently, the reactor is still at a temperature of 235 °F and a pressure of 200 psi and stable. Radioactive releases from the site continue to be insignificant as all routine gaseous and liquid discharges have been suspended except for building ventilation. Radiation levels inside the Auxiliary Building are still steadily decreasing as ventilation continues to dilute the existing airborne radioactive material as well as the reduction due to settling of particulates. Robots have been used to provide permanent repairs to the steam generator safety relief valve by welding a cap onto the end of the relief piping thereby guaranteeing no possible release via this valve.

Numerous additional onsite radiological surveys are being performed to properly identify and isolate contamination areas and areas with high radiation levels. Decontamination of the minimally contaminated areas has begun and should continue for the next 10 to 20 days. The site has recovered all the damaged or out-of-service equipment on systems that are critical to stable operations (such as redundant cooling capability).

1. Centrifugal Charging Pump 1A-A Repaired
2. Steam Generator Safety Valve Isolated

To further quantify the levels of offsite deposition, environmental monitoring field teams continued to monitor dose rates both at previously monitored locations and additional points added based on the monitoring conducted on day 2. During day 2, all four teams collected dose rate readings at all assigned locations. Teams collected some soil and vegetation samples at points determined by the Field Coordinators for TVA and the State. The remainder of the soil and vegetation sampling will be conducted on Day 3.

Briefing Handouts:

1. Map(s) of environmental monitoring van travels & graphical compilation of dose rate readings for October 7 at 0800 to October 8 at 0800
2. Tabular format of environmental monitoring van readings (dose rate and frisker) from October 7 at 0800 to October 8 at 0800
3. Isotopic analysis results for samples collected on Day 2.

Expected Actions:

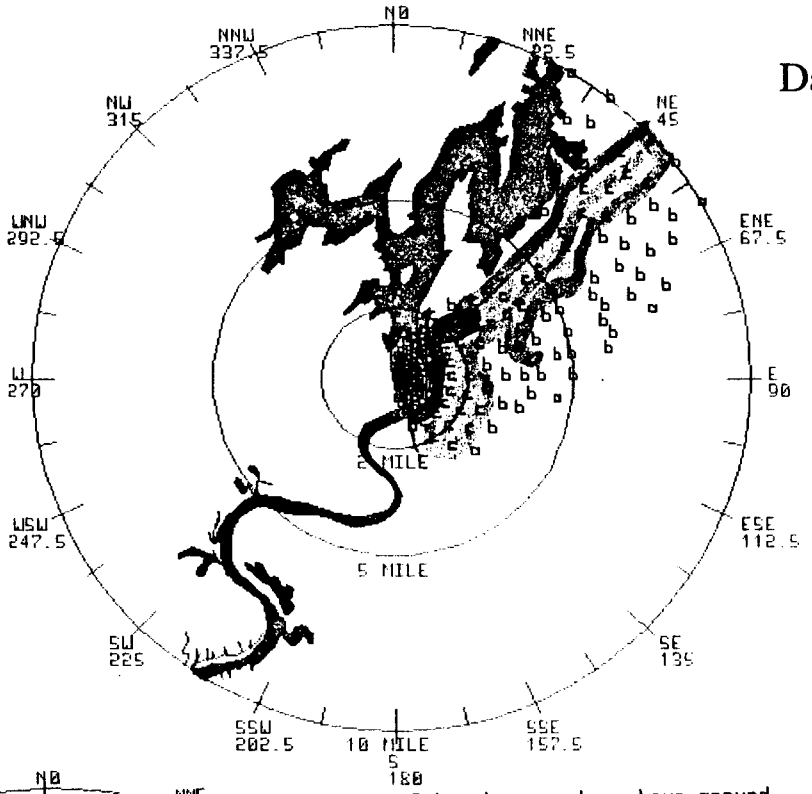
1. The State will continue to clarify which areas are sufficiently clean to allow the population to return to their homes. Isotopic analysis of the samples collected on Day 2 will be performed and the compiled results (1, 2 and 50 year cumulative doses) will be available for Day 2 sampling locations. Using this information, the State will determine appropriate actions based on FEMA/EPA guidance. The State will also determine what additional isotopic sampling is needed to make the necessary decisions.
2. TVA will continue to assess the core status and determine a plan of action. TVA also provides environmental monitoring vans as needed to assist the State in assessing offsite conditions.

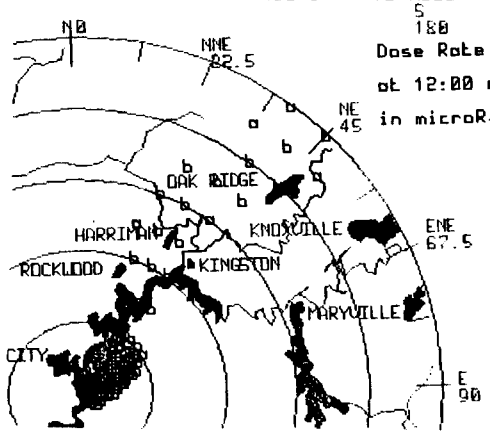
Data Collected up to Morning of Day 3

	Monitoring Pt	Dose Rate
A1		0
A2	9-7	0
A3		0
A4		0.04
A5	7-7	0.03
A6		0.02
A7		0.22
A8		0.38
A9		0.11
A10	3-2	0.02
A11	3-5	1.10
A12		0.04
A13	5-5	0.06
A14	7-4	0.30
A15	5-4	0
A16	4-1	0.02
A17		0.03
A18	5-1	0
B1	7-1	0
B2		0
B3	8-2	0
B4		0
B5		0
B6		0
B7		0
B8		0
B9		0
B10		0
B11		0.21
B12		0.33
B13		0.40
B14		0.26
C1		0.01
C2		0.02
C3		0.02
C4		0.05
C5		0.07
C6		0.05
C7		0.03
C8		0.04
C9		0.06
C10	9-4	0.01
C11	8-3	0.01
C12		0.02
C13		0.05
D1		0
D2		0
D3	8-6	0.16
D4		0.12
D5		0.28
D6		0.09
D7		0.02
D8		0.30
D9	8-5	0.16
D10		0.23
D11	7-3	0.31
D12		0
D13		0

Day 3 - Oct 8, 1993

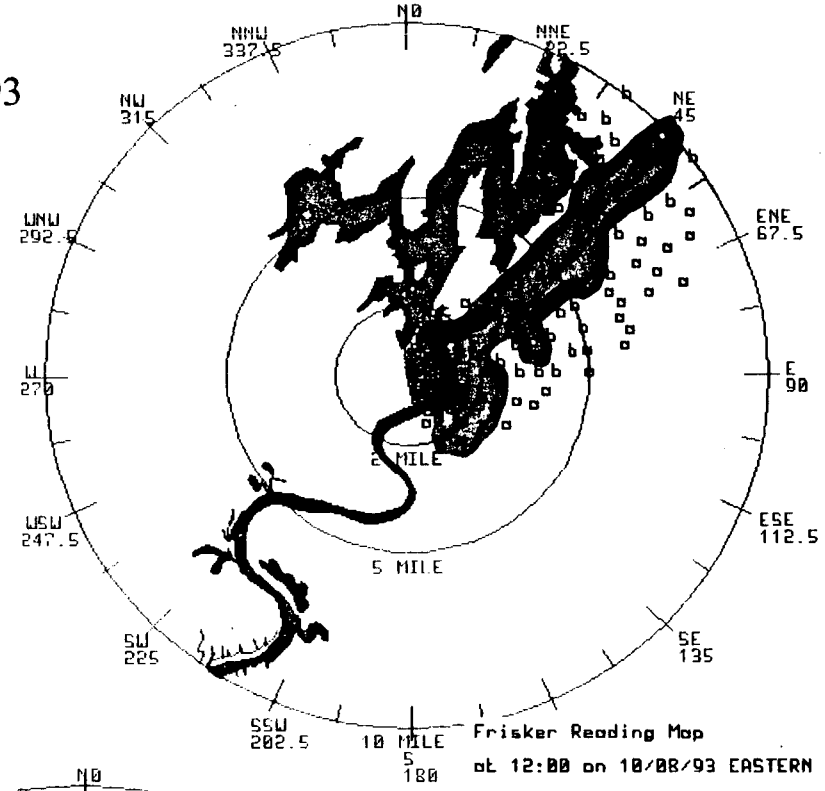
Aerial Fly-Over Data
Frisker Reading

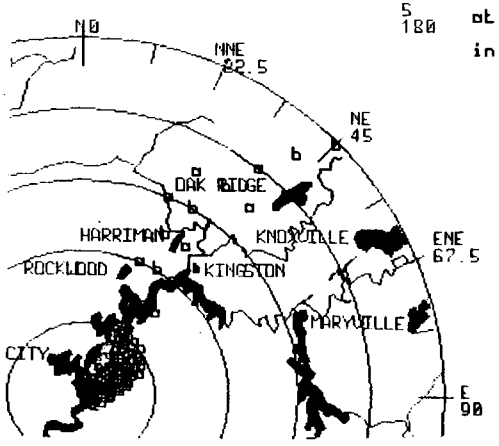




Dose Rate at one meter above ground
at 12:00 on 10/08/93 EASTERN
in microR/hour from aerial survey

- a: 2.0E+00 - 9.9E+00
- b: 1.0E+01 - 9.9E+01
- 1.0E+02 - 9.9E+02
- 1.0E+03 - 9.9E+03
- above 10000



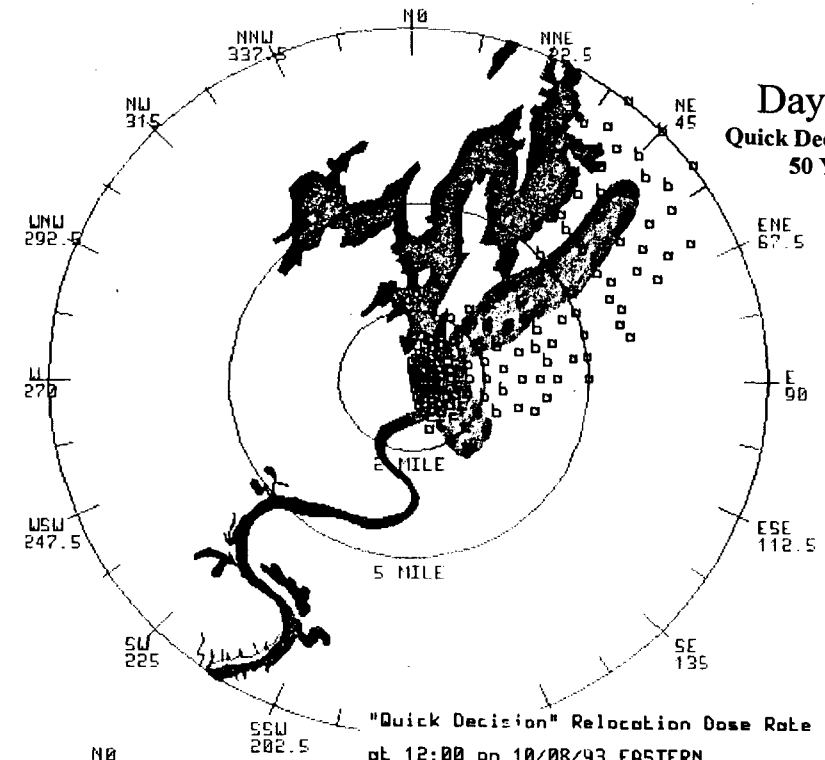


Frisker Reading Map
at 12:00 on 10/08/93 EASTERN
in counts per minute

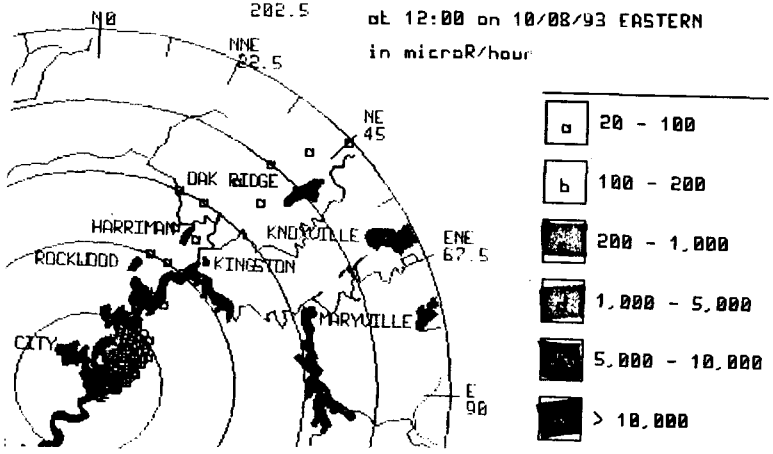
- a: 100 - 500
- b: 500 - 1,000
- 1,000 - 5,000
- 5,000 - 10,000
- 10,000 - 50,000
- > 50,000

Day 3 - Oct 8, 1993

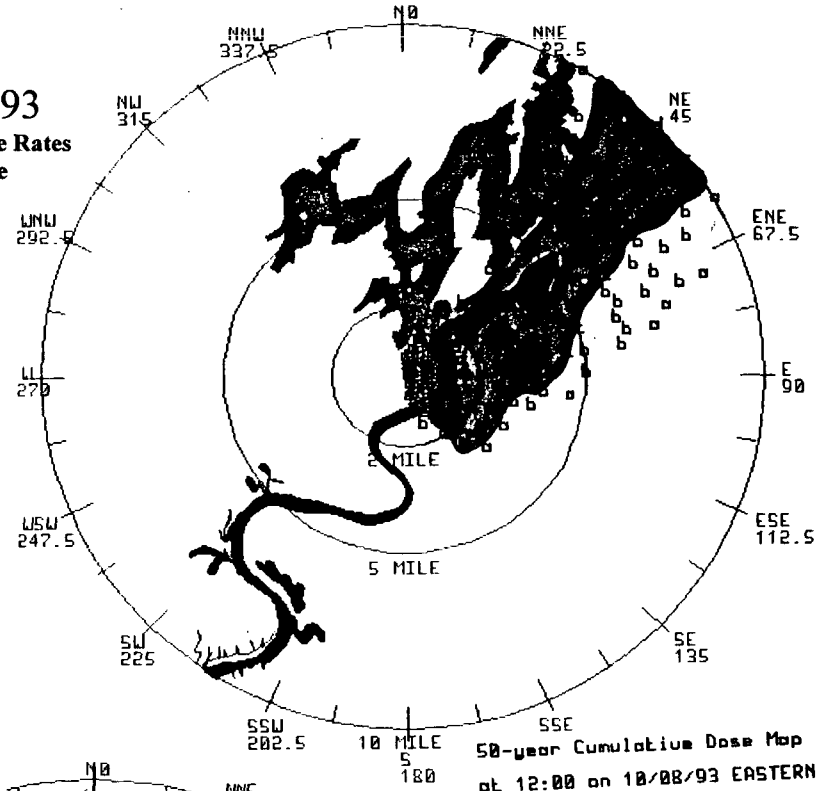
Quick Decision Relocation Dose Rates
50 Year Cumulative Dose



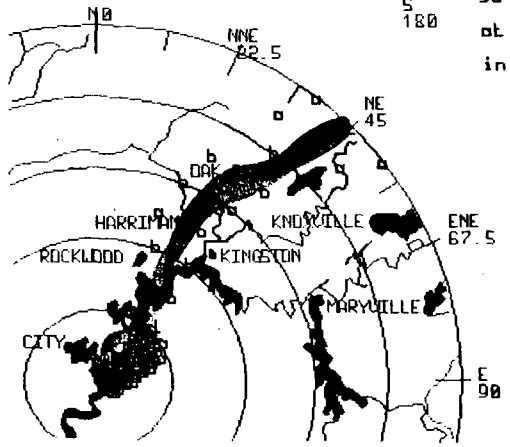
"Quick Decision" Relocation Dose Rate
at 12:00 on 10/08/93 EASTERN
in microR/hour



- a: 20 - 100
- b: 100 - 200
- 200 - 1,000
- 1,000 - 5,000
- 5,000 - 10,000
- > 10,000



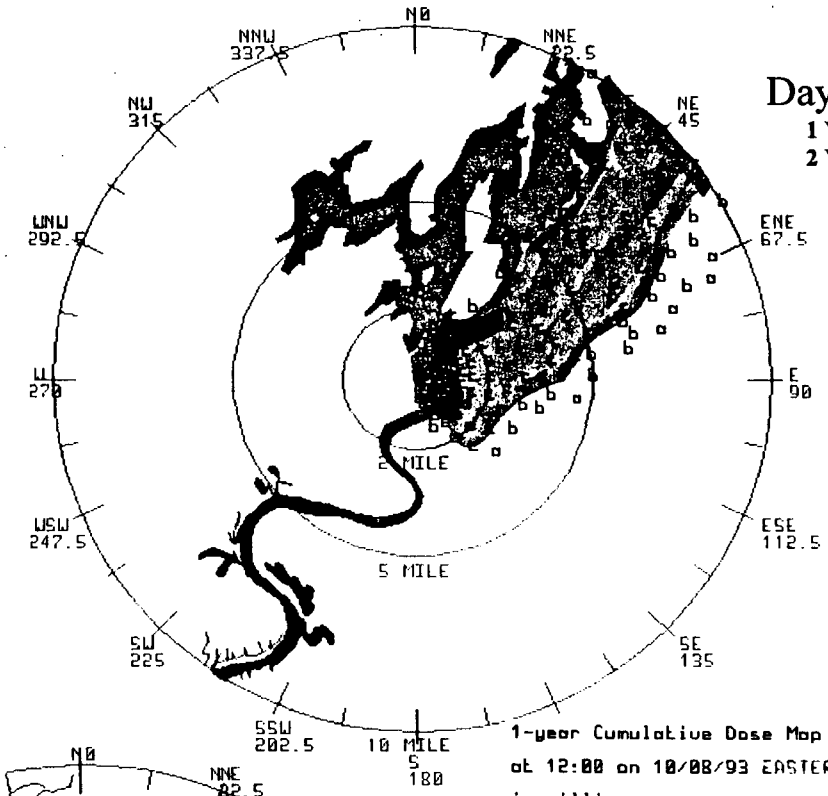
50-year Cumulative Dose Map
at 12:00 on 10/08/93 EASTERN
in millirem



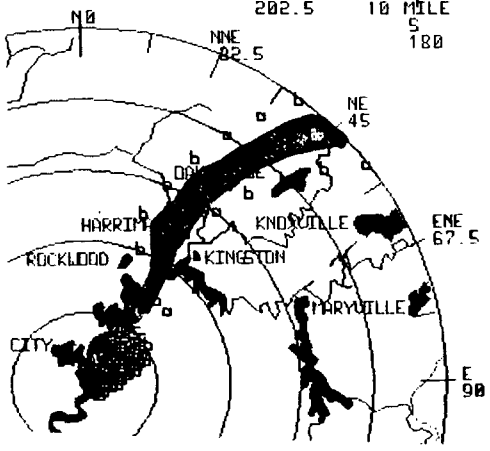
- a: 10 - 100
- b: 100 - 500
- 500 - 1,000
- 1,000 - 5,000
- 5,000 - 10,000
- > 10,000

Day 3 - Oct 8, 1993

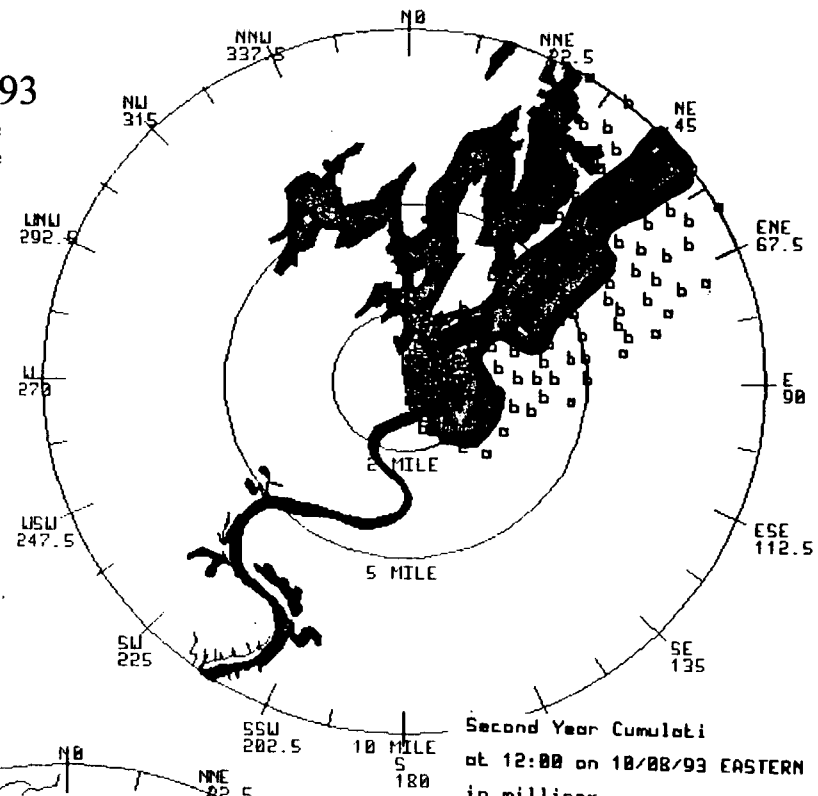
1 Year Cumulative Dose
2 Year Cumulative Dose



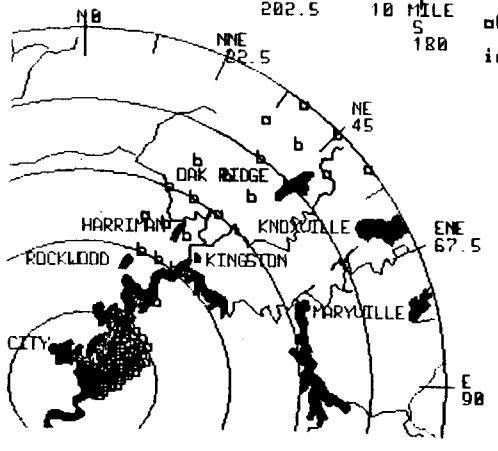
1-year Cumulative Dose Map
at 12:00 on 10/08/93 EASTERN
in millirem



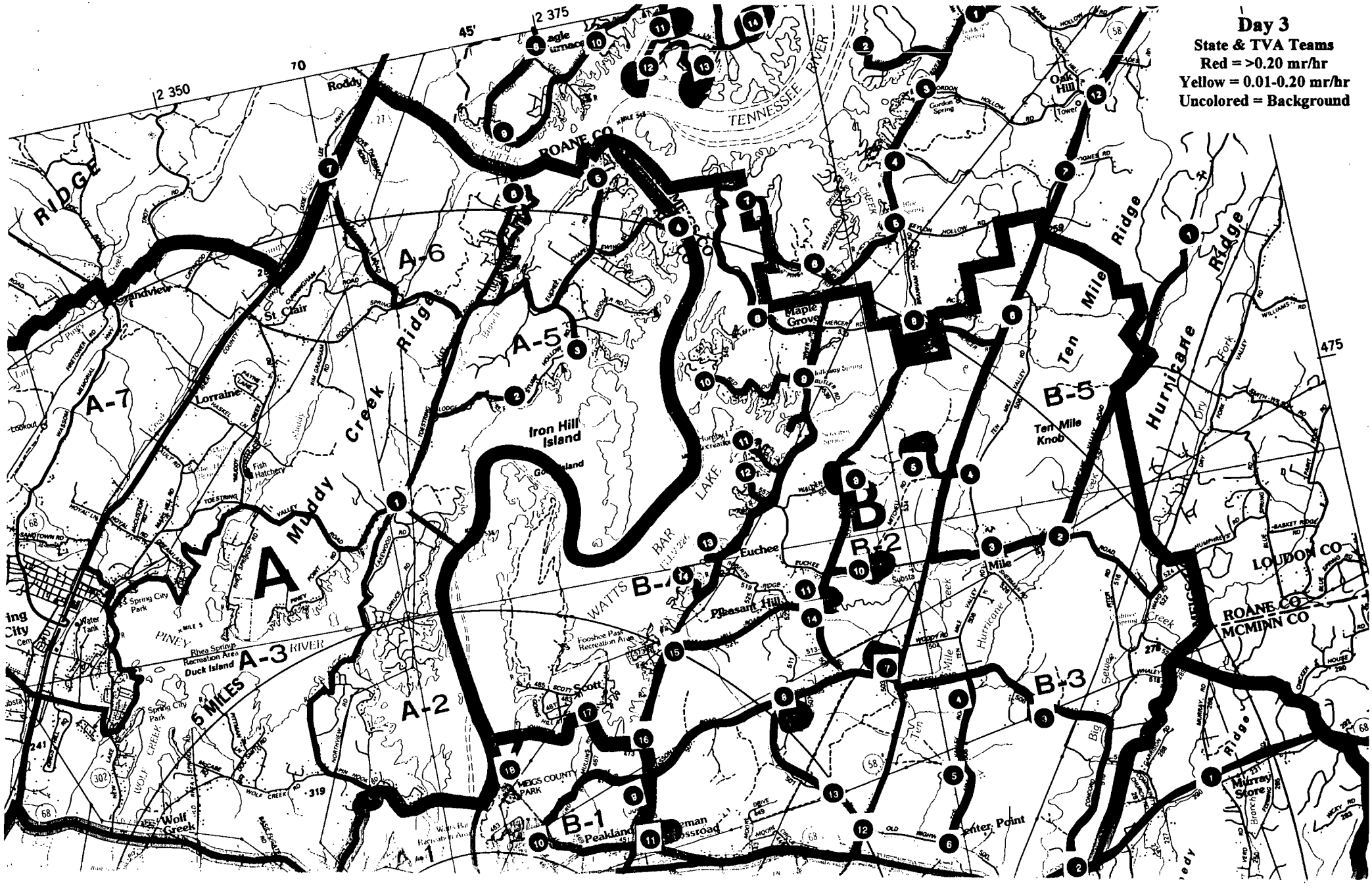
- a: 1 - 10
- b: 10 - 100
- 100 - 1,000
- 1,000 - 2,000
- 2,000 - 10,000
- > 10,000



Second Year Cumulati
at 12:00 on 10/08/93 EASTERN
in millirem



- a: 1 - 10
- b: 10 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000


Day 3
State & TVA Teams
Red = >0.20 mr/hr
Yellow = 0.01-0.20 mr/hr
Uncolored = Background
TENNESSEE RIVER
ROANE CO
LOUDON CO
MCMINN CO
Roddy
Sandview
St Clair
Lorraine
Fish Hatchery
Muddy Creek
Ridge
Iron Hill Island
Maple Grove
Oak Hill
Ten Mile Ridge
Ten Mile Knob
Hurricane Ridge
Euchee
Pleasant Hill
Scott
Peakland
Enter Point
Murray Store
Spring City Park
Water Tank
Rhea Springs Recreation Area
Duck Island
Fooshee Pass Recreation Area
Wolf Creek
WATTS BAR LAKE
PINEY RIVER
5 MILES
A-1
A-2
A-3
A-5
A-6
A-7
B-1
B-2
B-3
B-5

BRIEFING PAPER: Morning of Day 4: October 9, 1993

(Activities actually conducted on October 7, 1993)

Current Conditions:

Reactor Operators continue to cool the damaged core without incident using the Residual Heat Removal System. Currently, the reactor is still at a temperature of 235 °F and a pressure of 200 psi and stable. TVA and Westinghouse core damage experts continue to work on quantifying the exact damage to the core and formulate a plan as to when and how to open the vessel and remove the damaged core. No further actions are planned for the next 30 days to allow for decay of the short-lived fission products and the associated reduction in dose rates. During this wait, TVA will be planning which task must be performed and how best to perform these necessary operations with the minimum radiation exposure to the employees.

Numerous onsite radiological surveys are being performed to properly identify and isolate contamination areas and areas with high radiation levels.

Field teams will be sampling dairies as milk concentrations peak on day 4 following an iodine release.

Briefing Handouts:

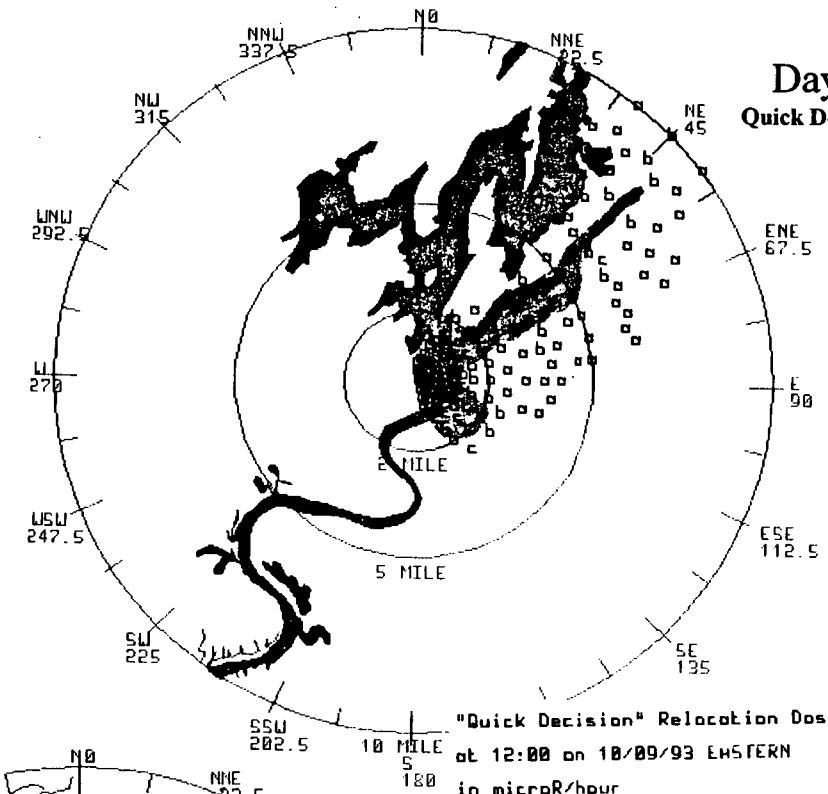
1. Map(s) of environmental monitoring van travels & graphical compilation of dose rate readings for October 8 at 0800 to October 9 at 0800
2. Tabular format of environmental monitoring van readings (dose rate and frisker) from October 8 at 0800 to October 9 at 0800
3. Isotopic analysis results for samples collected on Day 3.

Expected Actions:

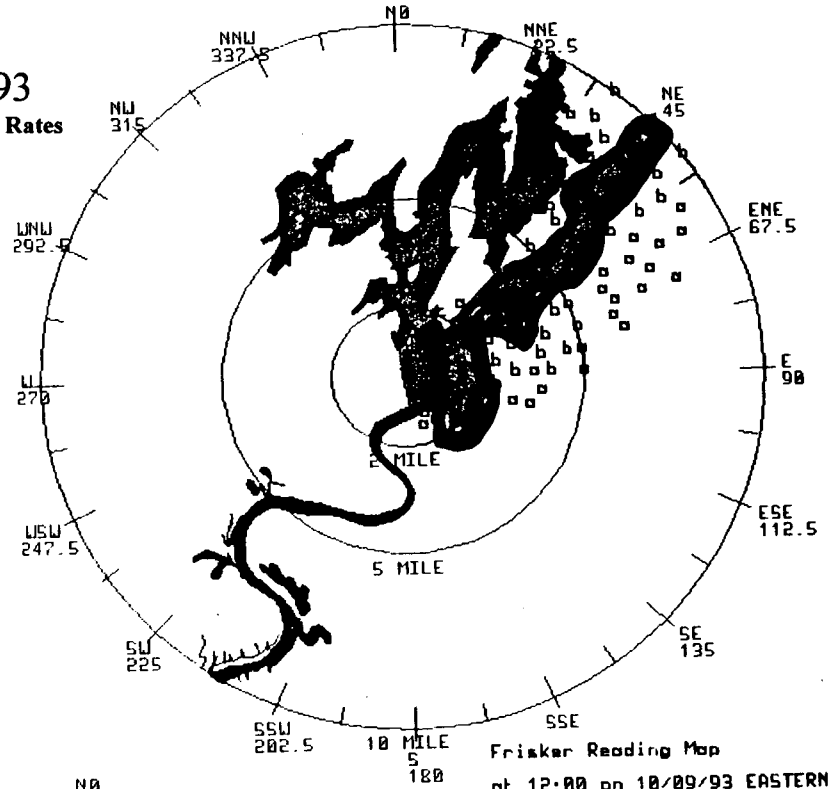
1. Environmental monitoring teams will be sampling dairies as milk concentrations peak on Day 4 following the iodine release. Additionally, on van will be requested to re-sample monitoring point 10-1, due to suspected cross-contamination of the sample.
2. The State will continue to clarify which areas are sufficiently clean to allow the population to return to their homes. Isotopic analysis of the samples collected on Day 3 will be performed and the compiled results (1, 2 and 50 year cumulative doses) will be available for Day 3 sampling locations. Using this information, the State will determine appropriate actions based on FEMA/EPA guidance. The State will also determine what additional isotopic sampling is needed to make the necessary decisions.
3. TVA will continue to assess the core status and determine a plan of action. TVA also provides environmental monitoring vans as needed to assist the State in assessing offsite conditions.

Day 4 - Oct 9, 1993

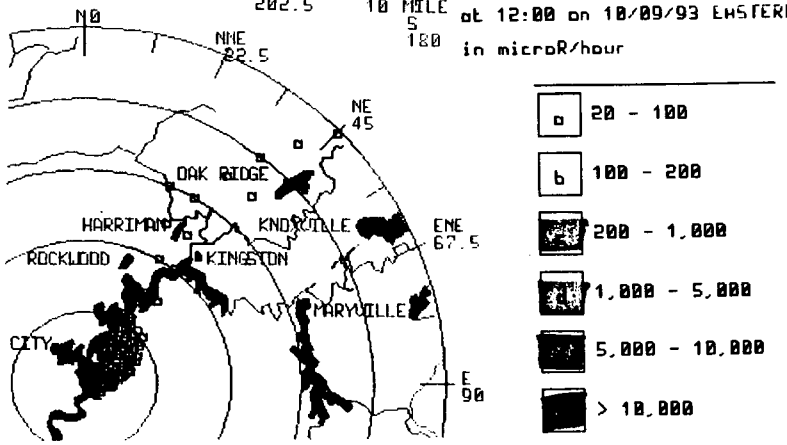
Quick Decision Relocation Dose Rates
Frisker Readings

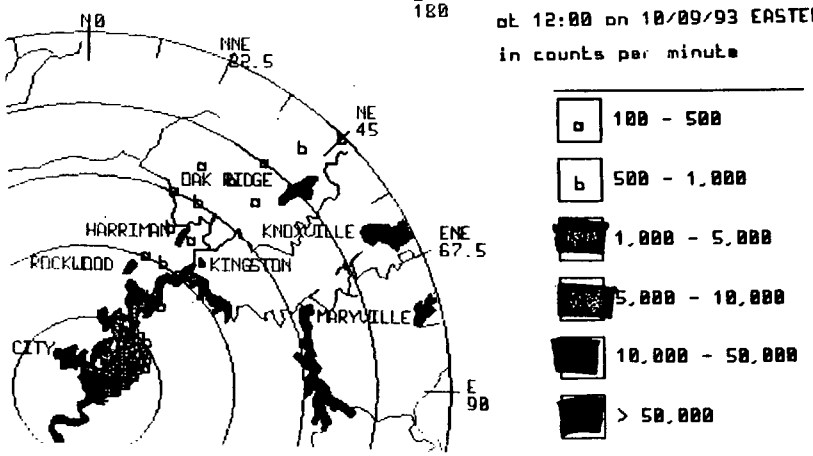


"Quick Decision" Relocation Dose Rate
at 12:00 on 10/09/93 EASTERN
in microR/hour



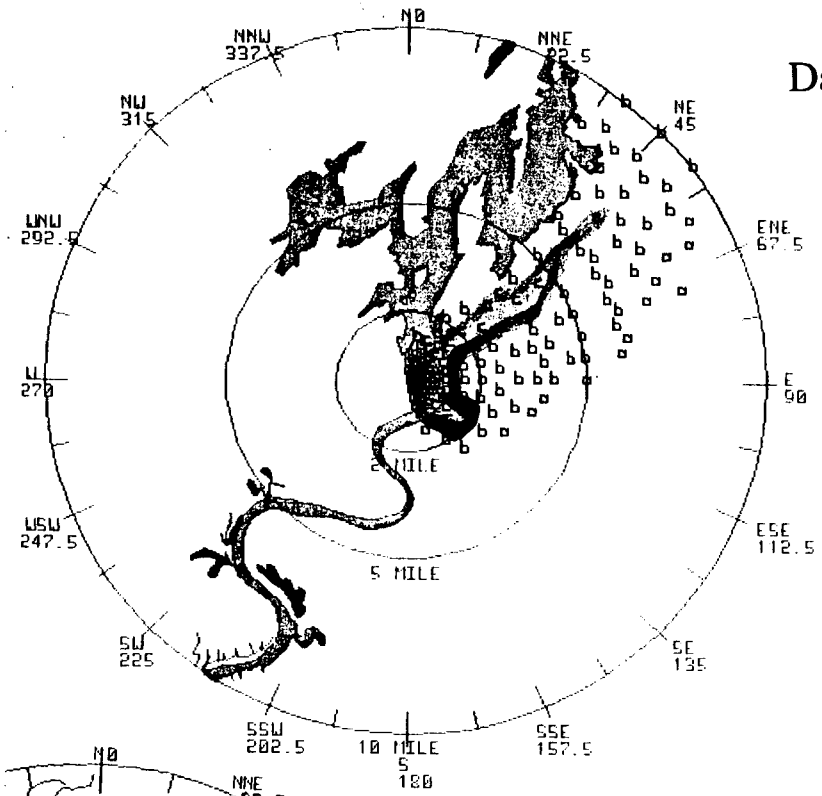
Frisker Reading Map
at 12:00 on 10/09/93 EASTERN
in counts per minute

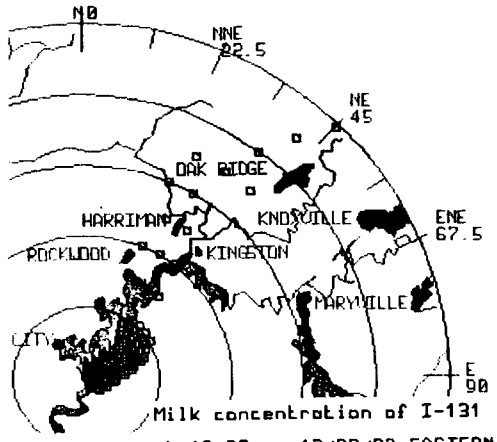




Day 4 - Oct 9, 1993

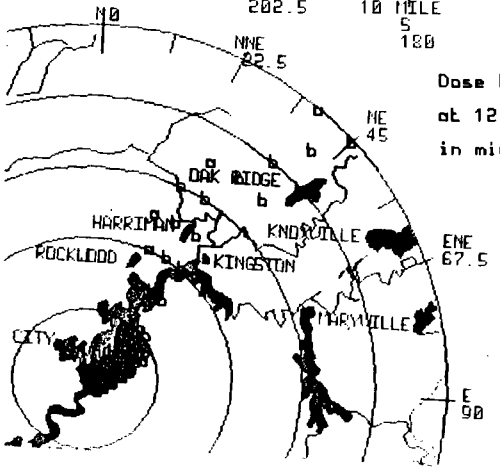
Aerial Fly-Over Data
Total Ground Activity
Milk Concentrations





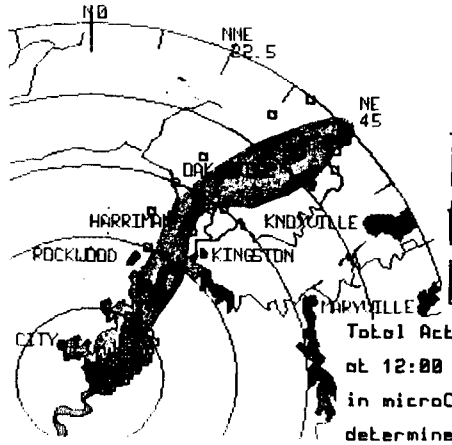
Milk concentration of I-131
at 12:00 on 12/09/93 EASTERN
in picoCuries per Liter

a	1.0E+01 - 9.9E+01
b	1.0E+02 - 9.9E+02
	1.0E+03 - 9.9E+03
	1.0E+04 - 9.9E+04
	1.0E+05 - 9.9E+05
	1.0E+06 - 9.9E+06
	1.0E+07 - 9.9E+07
	above 1.0E+08



Dose Rate at one meter above ground
at 12:00 on 12/09/93 EASTERN
in microR/hour from aerial survey

a	2.0E+00 - 9.9E+00
b	1.0E+01 - 9.9E+01
	1.0E+02 - 9.9E+02
	1.0E+03 - 9.9E+03
	above 10000



a	1.0E-01 - 9.9E-01
	1.0E+00 - 9.9E+00
	above 1.0E+01

Total Activity on Ground
at 12:00 on 12/09/93 EASTERN
in microCuries per square meter
determined by aerial DOE survey