

**EXERCISE MANUAL**  
**FOR THE**  
**JUNE 24, 2003**  
**FORT CALHOUN STATION**

**EMERGENCY**  
**PREPAREDNESS EXERCISE**

**VOLUME 2**

**SCENARIO MANUAL**

**Table of Contents**

**Volume 2**

**Exercise Scenario**

Table of Contents .....	1
Narrative Time Line Summary .....	2
Exercise Nite Notes .....	5
Exercise Plan of the Day .....	6
Exercise Reactor Coolant Summary Report FC-214 .....	12
Exercise Meteorological Forecast.....	13
Exercise Messages.....	14
Subdrill One – Letdown System Leak.....	38
Subdrill Two – DS-T1 Transformer T1 Disconnect Switch Problem .....	39
Subdrill Three – Electrical Fire in Diesel Generator #1 .....	40
Subdrill Four – HPSI Suction Header Leak.....	41
Subdrill Five – Construction Accident on US Hwy 30 in Washington County .....	42
Sub Drill Six – Train De-rails near the Harrison / Pottawattamie County Line .....	46
Area Maps for In-Plant Radiological Data.....	50
In-Plant Radiological Data .....	56
Dose Cards.....	74
Master Event Time Line and Message Summary .....	75

## **Narrative Summary**

**Initial Conditions** – This scenario will begin using Simulator Initial Condition Set #3. The plant is operating near the end of cycle at 100 percent power. Reactor Coolant System Boron Concentration is 66 ppm. The plant has been at 100 percent power for over 30 days. River Level is at 990' 0". River Temperature is at 72 °F. Outside ambient temperature is 82 °F. Diesel Generator #2 is tagged out for annual overhaul-inspection and Technical Specification 2.7(2) has been entered (Expires on June 30, 2003 at 0800 hours). FW-5A (Heater Drain Pump) is out of service for a motor overhaul and expected to be returned to service June 26, 2003.

The Probabilistic Risk Assessment (PRA) Color is Orange due to the Diesel Generator #2 overhaul. The Core Damage Frequency is 31 hours to Orange. The Initiating Event is a spurious SGIS (Steam Generator Isolation Signal).

Exercise activities will begin at 07:00 hours. A leak of about 25 gpm in the letdown system will cause Auxiliary Building Stack Process Monitors to alarm and exceed the verification criteria of Alert EAL 8.3, "Gaseous Effluent Process Monitors Indicate > Ten (10) Times The High Alarm Setpoint." The leak from the Letdown system can be isolated by shutting HCV-204 LETDOWN HEAT EXCHANGER CH-7 INLET VALVE and TCV-202 REACTOR COOLANT SYSTEM LOOP 2A LETDOWN TEMPERATURE CONTROL VALVE. Dose assessments will not result in any Protective Action Recommendations.

The offsite release from the Auxiliary Building will continue for about 45 minutes before the process monitors drop below the High Alarm Setpoint.

At 0835, lightning from an isolated thunder storm causes a loss of 345 KV power and 161 KV power. The transient on the plant results in a LBLOCA and initiation of all safeguards systems. Diesel Generator #1 is the only source of AC Power. A problem with the DS-T1 Transformer T1 Disconnect Switch will prevent back feeding 345 KV power to the safeguards busses until repairs are made. System Operations cannot get 161 KV power back for the plant for 2-3 hours.

Only emergency lighting is available in the Turbine Building, Auxiliary Building, Service Building, and the Containment Building until after 161 KV/345 KV power is restored after 1010 hours and action is taken to energize lighting by the Control Room.

The LBLOCA will result in meeting the verification criteria of SAE EAL 1.11, "RCS Leakage >40 gpm and RCS Pressure Continues to Lower After HPSI Begins." The LBLOCA results in a core uncover for about 5 minutes and results in about 5 percent cladding damage. This increases the available source term in the Reactor Coolant System that is released into the Containment atmosphere. Dose assessment will now include a Containment release based on area monitors and designed containment leakage. No PARs will be required based on these dose assessments.

The SWIRT is expected to empty 50 minutes after the start of the LBLOCA; at which a RAS (Recirculation Actuation Signal) is received. The level in the Reactor Coolant System will be at the bottom of the Hotleg or RVLMS of 14%.

At 08:50, a train derails near the Harrison / Pottawattamie County line. The train is hauling no hazardous materials. The location of the derailment is near a railroad crossing on State Hwy 362 near the intersection of US Hwy 183. The derailment is in the eastern area of the Fort Calhoun Station Emergency Planning Zone. There are no personnel injuries and neither the diesel engines nor the train cars tip over. Impact – Both east and west bound traffic is blocked by the derailed train on State Hwy 362. Personnel in Sub-Area 14 in Pottawattamie County, west of Interstate 29, will not be able to use State Hwy 362 to reach US Hwy 183 if ordered to evacuate to the Denison Reception and Care Center. Traffic can be directed around the area using county roads in both Harrison and Pottawattamie Counties. The train crew will need a way to evacuate. The train does not present any hazardous situation.

At 08:50, the Washington County 911 Center receives a cell phone call from a bridge construction site west of Kennard, NE, that the boom on a crane has collapsed and fallen onto the detour around the bridge construction site. Both east and west traffic lanes are completely blocked. US Hwy 30 traffic is backing up. No one is injured. Impact – Both east and west bound traffic is stalled on US Hwy 30, which is the evacuation route to the Fremont Reception and Care Center. Traffic can be directed around the area using county roads. Construction personnel at the site can use the front-end loader to push the crane boom off the roadway of the detour. The boom is pushed aside by 9:45.

At 0935, an electrical fire in Diesel Generator #1, causes it's out breaker to trip resulting in Station Blackout. Power is lost to all safeguards equipment. With a loss of all safety injection during the LOCA, core uncover is imminent. There is no containment spray and no containment cooling. A core melt situation exists and the containment may be deemed challenged with no Containment cooling during a LOCA. A General Emergency will be declared based on GE EAL 1.16, "Imminent Core Uncovery with Containment Failure or Challenge." GE EAL 11.8, "Any Core Melt Situation," may also be used to declare a General Emergency. Due to a Sustained Loss of Safety Injection during a LOCA, a Protective Action Recommendation should be made to evacuate 0-2 Miles all sectors, 2-5 affected sectors only, and 5-10 miles None.

Due to RCS Boil-off RVLMS will lower from 14% to 8% in 5-minutes. 10 minutes later, at 0950, core uncover will be indicated (RVLMS = 0%). AT 1005, CETs will begin to rise rapidly, reaching a temperature of about 2000°F by 1020, which results in major clad damage.

At 1010, System Operations will report that 161 KV power has been restored and is now available to energize all safeguards busses. Repairs to DS-T1 can be allowed to be completed if actions have been taken to complete the repairs. This will allow all safeguards busses to be energized and ECCS to be restored.



At 1050, a major release occurs. A leak occurs on the Auxiliary Building side of HCV-383-3 into Room 13 (Spent Regenerant Tank and Pump Room). A large volume of water from the Containment Floor drains into the Auxiliary Building resulting in a release. Dose Assessments will not require PARS beyond five miles.

The Plume Phase of this Exercise scenario will end at 1200 hours. Briefings for Reentry, Relocation, and Recovery phase will begin at 1300 hours.

**Fort Calhoun Station**  
***Operations Department***  
Exercise Nite Notes  
For Today's Exercise

- A. **Tasks to be completed over night/weekend**  
None
- B. **Activities Coming Up On Day Shift Tuesday**  
Diesel Generator #2 overhaul/Inspection
- C. **WAM/PRA Color for Tuesday is Orange**  
Due DG2 overhaul
- D. **Look-Ahead**  
1. None
- E. **POD Feedback**  
None
- F. **General Information**  
Good Luck to the Exercise Crew.

Thanks,      REL

## Plan of the Day

For Tuesday, June 24, 2003 Last Updated: 06/24/2003

06:09

Safety Tip of the  
Day is:

Electricity is recognized as a serious workplace hazard. Safe work practices will help control, avoid or eliminate electrical hazards. Inspect all outlets before plugging in equipment to ensure electric plugs match their receptacles, never alter a plug.

Human Performance Tip of the  
Day is:

Should you ever drop your car keys into molten lava..... - baby, just let em go!

### Plant Performance Status as of: 06/24/2003 04:53

Power Level (Reactor):	99.87	% PWR
Power Level (Reactor)(XC105):	1498.10	MWT
Power Level (Generator)(XC401DY):	491.87	MWE
RCS Leak Rate (Total):	0.196	GPM
RCS Leak Rate (Unknown):	0.132	GPM
Highest RCS Leakage Rate in June (Total):	0.196	GPM Date: 06/01/2003
RCS Dose Equivalent Iodine :	2.53E-02	uCi/gm
RCS Total Activity :	1.51E+00	uCi/gm
RCS Xenon-133 :	6.06E-02	uCi/cc
River Level (L1900):	990'0"	
CW Temp (XC094):	72.00	F

### Key Radiological/ Fuel Issues and Recent Changes

None

### Plant Statistics

#### NUMBER OF DAYS:

Continuous Operation This Cycle:	386	Days
Until Start of Next Refueling Outage:	80	Days
Since Last Lost Time Injury:	138	Days

**Today's Dose Summary (As Of Date: 06/23/2003)**

Yesterday's Exposure:	60.0	mREM
This Week's Estimated Dose:	228.0	mREM
This Week's Dose to Date:	67.0	mREM
Online Dose Goal:	21.0	REM
YTD Online Dose:	5.775	REM
Dose We Should Be At To Meet Our Online Goal:	5.642	REM
Amount Above (or Below) Online Goal:	+ 0.133	REM
Outage Dose Goal:	107.0	REM
YTD Outage Dose:	0.0	REM
Dose We Should Be At To Meet Our Outage Goal:	0.0	REM
Amount Above (or Below) Outage Goal:	+ 0.000	REM

Total YTD Personnel Contaminations > 5000 NCPM (As Of Date :  
06/23/2003)

ACTUAL : 2.0

GOAL: 3.0

**Tech Spec LCO'S (Specified Time Length)**

Item	Tech Spec Number	Component	Description / Action	LCO Expiration	Return to Service Date	Resp. Dept
1)	2.7(2)	DG-2	Diesel Generator / Annual overhaul-inspection	4/7/03 0650	6/30/03	MM, IC, SE

**Tech Spec LCO'S (No Time Length)**

Item	Tech Spec Number	Component	Description / Action	Return to Service	Resp. Dept
1)	none				
2)					

**Administrative LCO'S**

Item	Document	Component	Description / Action	Return to Service	Resp. Dept
1)	TS 3.0.5	Reactor Vessel	Reactor Vessel Inspection / ISI needs to be performed prior to startup from next Refueling Outage	Cycle 22	SE

### Maintenance Rule Equipment or Major Equipment Out of Service

Item	Equipment Tag	Equipment Description	Reason Out of Service	Action to Return	Expected RTS Date	Lead Dept.
1)	FW-5A	Heater Drain Pump	Motor Overhaul	Re-install Motor	6/26/03	EM

---

### Shift Manager's Report

- 1) Aux Bldg Hot Water Generator PW-5 manway still leaks.  
Ref: CR 200301142.

---

### WWM - Priorities for Today and Next Work Day

PRA Color for  
06/24/2003



Tuesday, June 24

1. DG-2 Annual Maintenance Outage

Risk:

- Core Damage Frequency is 31 Hours to Orange
- Initiating Event = Spurious SGIS

Major Activities

- Continue ST's and Maintenance
- Continue System Protection and Metering Calibrations
- Start Roll Through Test

Wednesday, June 25

1. DG-2 Annual Maintenance Outage

Risk:

- Core Damage Frequency is 31 Hours to Orange
- Initiating Event = Spurious SGIS

Major Activities

- Continue ST's and Maintenance
  - Continue Metering Calibrations
  - 4160 Volt Breaker Trip Checks
2. IC-ST-SI-0004, SIRWT Temp Indicator Function Test

---

### WWM - Activities that Could Affect Radiological Conditions

Zinc injection was returned to service on June 20, 2003.

---

### WWM - Accomplishments from the Previous Work Day

Monday, June 23

**Emergent:**

- CH-1C, Change Oil in Charging Pump

**1. DG-2 Annual Maintenance Outage**

**Risk:**

- Core Damage Frequency is 31 Hours to Orange
- Initiating Event = Spurious SGIS

**Major Activities**

- Initial Run Activities
- Install Clearance
- Start ST's and Maintenance

---

**Focus Manager Report**

**This Week ( Mark Ellis - WWM)**

Monday	Tuesday	Wednesday	Thursday	Friday Outage Day
DG-2 Outage	DG-2 Outage	DG-2 Outage		
John Herman	John Herman	John Herman		

**Next Week ( John Tesarek - WWM)**

Monday	Tuesday	Wednesday	Thursday	Friday Outage Day
CW-13B expansion joint (circulator CW- 1B)	CW-13B expansion joint (circulator CW- 1B)	CW-13B expansion joint (circulator CW- 1B)		

---

**Commitment/ Kudos:**

---

**Operating Staff**

	<b>6AM-6PM</b>	<b>6PM-6AM</b>
	<b>SHIFT</b>	<b>SHIFT</b>
SM:	Mike Sandhoefner	Jeff Brown
CRS:	Tony Christensen	Dave Sweeney
STA:	Matt Pohl	Kevin R. Boston
WWM:	Mark Ellis	
OCC Supv:	Al Peters	

---

### Goals Status

	<u>GOAL</u> <u>(thru</u> <u>06/30/03)</u>	<u>ACTUAL</u> <u>(thru</u> <u>06/23/03)</u>
Meet/Beat Budget (Cents/kWh):	1.50 ¢	1.58 ¢

	<u>2003 GOAL</u>	<u>ACTUAL</u> <u>(as of 12/31/02)</u>
INPO Performance Index:	95	94.1
Capability Factor (year):	87.00 %	89.86 %
INPO Significant Events:	0	0
Lost Time Accidents:	0.2	0.51
On-line Corr. Maint. Backlog:	100	94

### Effluent Dose Goals Status

	<u>GOAL</u>	<u>ACTUAL</u> <u>(as of 05/31/03)</u>
Total Body Gamma Gas:	< 3.00 %	0.008 %
Total Body Beta Gas:	< 5.00 %	0.005 %
Total Body Gas:	< 0.10 %	0.000 %
Critical Organ Gas:	< 7.50 %	0.009 %
Critical Organ Liquid:	< 2.00 %	0.147 %
Total Body Liquid Dose:	< 6.00 %	0.367 %

### Top 10 Equipment Issues List

Priority	Issues/ Equipment	Controlling Condition Report	Issue "Owner"
1	Condensers * Tube Degradation * Lowered Efficiency	200203118	Al Koenig
2	Plant Ventilation (HVAC) Systems * Control Room (VA-46A, B) (CR #200202386) * Auxiliary Building * Chemistry & Radiation Protection (C/RP) Building	200000332	Erick Jun
3	Safety Injection (SI) System * Check Valves (leak) * Nitrogen Voiding	200102283	John Johnson

	* Suction and Discharge Valve Intensifiers		
4	Reactor Coolant Pump (RCP) Motors * RC-3A-M & RC-3D-M oil leaks (radiological & industrial safety concern)	200200000	Jim Hilgenkamp
5	Plant Instrumentation * Major Aging/Obsolescence Concern	200203116	Steve Miller
6	Aux. Building Floor Drains * Plugging concern w/numerous drains	200203117	John Johnson
7	Charging (CVCS) System * Charging Pumps (Poppet Valves) * Charging Pump Accumulators (Bleed Down) * Ion Exchangers (Laterals Passing Resin Fines) * Fatigue Cracking of Piping * LCV-101-1 (Poor Control in Auto or Manual) * PCV-210 (Poor Control in Auto)	200102269	Bernie "Ski" Mierzejewski
8	Fuel Handling Equipment * High Maintenance Items * High Economic Impact	200102289	Bernie "Ski" Mierzejewski
9	Feedwater Heaters FW-15A, B * Degraded internals	200201787	Bill Phillips
10	RCS Loop 2A Cold Leg Temperature Indicator TI-121C * Instrument loop inoperable	200200000	Trung Nguyen

### Upcoming Events / Inspections / Audits / Visitors

- NRC baseline inspection IP 71114, "Emergency Plan Exercise Baseline Inspection," is scheduled for 6/24+25/2003. Mr. Paul Elkman and Ryan Lantz with possibly one or two others will conduct the inspection.
- NRC baseline inspection IP 71121.01, "Access Control To Radiologically Significant Areas," is scheduled for 10/6-10/2003. Mr. Larry Ricketson will conduct the inspection.
- NRC baseline inspection IP 71121.02, "ALARA Planning and Controls," is scheduled for 12/8-12/2003. Mr. Jim Dodson will conduct the inspection.



# **EXERCISE FC-214 REACTOR COOLANT DAILY SUMMARY REPORT**

Sample Date: 06/23/03		Sample Time: 1930	
Analyst: Shift Chemist		Mode: 1	
Reactor Power: 100%		Sample Point: Loop1	
VCT Overpressure: 21.20 psig		RCS Temperature: 592 °F	
Letdown / Purification Flow: 35.0 gpm			
<b>Chemical Analysis:</b> ( ) Warning:    Action Level Exceeded			
<u>Analysis</u>	<u>Spec</u>	<u>Result</u>	<u>QC (Measured/Actual)</u>
*Boron	0-2400	.66 ppm	
*Chloride	≤0.010	0.0023 ppm	0.0092/.01
*Fluoride	≤0.010	≤0.0005 ppm	0.0103 / 0.0100
*Dis. Oxygen	≤0.005	≤0.005 ppm	N/A
Lithium	2.58 - 2.94	2.79 ppm	2.02 / 2.00
Hydrogen	27 - 50	32.28 cc/kg	2.04 / 2.00
pH at 25EC	4.5 - 10.2	6.86	N/A
Conductivity	<40.0	32.80	N/A
<b>Radiochemical Analyses:</b>			
<u>Analysis</u>	<u>Spec.</u>	<u>Activity</u>	
*DEI	≤1.0	1.91E-02	
Xe-133	<15.0	4.57E-02	
AR-41	N/A	5.07 E-01	
<b>*Technical Specifications:</b>		<b>Radioactivity Summary :</b>	
1. Boron TS (2.8, 2.10, Table 3-4)		Tritium:            1.94E-01            μCi/gm	
2. Chloride TS (2.1.5, Table 3-4)		F-18                9.35E-02            μCi/gm	
TS Limit ≤0.150 ppm		Total Gas:        3.21E-01            μCi/gm	
3. Dis Oxygen TS (2.1.5, Table 3-4)		Total Gamma:    2.16E-01            μCi/gm	
TS Limit ≤0.100 ppm		+-----	
4. Dose Equivalent Iodine (DEI)		RC Gross Activity: 8.25E-01            μCi/gm	
TS (2.1.3, Table 3-4)		Total Iodine:     2.27E-01            μCi/gm	
Must be ≤ 1.0 μCi/gm		+-----	
5. Gross Radioactivity TS		RC Total Activity: 1.05E+00            μCi/gm	
(2.1.3, Table 3-4)		Fuel Reliability = 3.03E-05            μCi/gm	
Must be ≤ 100/E μCi/gm		Indicator	
Limiting Activity: <u>152.96</u> μCi/gm			

NOTE - Standards results must be within the tolerances specified in the analytical procedures. For out of specification results refer to CH-AD-0003 for corrective actions and reporting requirements.

Remarks:

Completion Date/Time 06/23/03 / 1830 Completed by Shift Chemist

Reviewed by Manager Chemistry Manager Chemistry / Alternate

## **Exercise Five Day Weather Forecast**

### **Today**

Partly cloudy. Temperatures steady in the upper 80s. Chance of scattered thunderstorms. West winds 10 to 15 mph.

### **Tonight**

Partly cloudy. Lows 65 to 70. West winds 10 to 20 mph.

### **Wednesday**

Partly cloudy and cooler. Highs in the lower 80s. North winds around 15 mph.

### **Wednesday Night**

Partly cloudy. Lows in the lower 60s.

### **Thursday**

Cloudy. A slight chance of showers in the afternoon. Highs in the upper 80s. A 20 percent chance of rain.

### **Thursday Night**

Cloudy with a chance of showers and thunderstorms. Lows in the mid 60s. A 50 percent chance of rain.

### **Friday**

Cloudy with a chance of showers and thunderstorms. Highs in the mid 80s. A 30 percent chance of rain Friday night.

### **Saturday**

Cloudy. A chance of rain during the day. Lows near 70 and highs in the lower 90s

Message #: 1

Elapsed Time:(-00:30)

From: Floor Instructor

Real Time: 6:30

To: Shift Crew

---

**Controller Notes:**

Conduct Shift turnover. Provide the Crew with POD, FC-214, and Nite Notes.

---

**Drill Message:**

Initial Conditions – This scenario will begin using Simulator Initial Condition Set #3. The plant is operating near the end of cycle at 100 percent power. Reactor Coolant System Boron Concentration is 66 ppm. The plant has been at 100 percent power for over 30 days. River Level is at 990' 0". River Temperature is at 72 °F. Outside ambient temperature is 82 °F. Diesel Generator #2 is tagged out for annual overhaul-inspection and Technical Specification 2.7(2) has been entered (Expires on June 30, 2003 at 0800 hours). FW-5A (Heater Drain Pump) is out of service for a motor overhaul and expected to be returned to service June 26, 2003.

The Probabilistic Risk Assessment (PRA) Color is Orange due to the Diesel Generator #2 overhaul. The Core Damage Frequency is 31 hours to Orange. The Initiating event is a spurious SGIS (Steam Generator Isolation Signal). Advise the Crew that Exercise Activities will begin at 07:00 hours.

Message #: 2

Elapsed Time: 00:00

From: Simulator Operator

Real Time: 7:00

To: Simulator Event

---

Controller Notes:

This event will result in meeting the criteria of Alert EAL 8.3.

---

Drill Message:

Commence Letdown System Leak. See Subdrill One for more details.

Message #: 3

Elapsed Time: 1:30

From: Security

Real Time: 8:30

To: Security Work Area & ACP

---

Controller Notes:

This information should be provided to Officers at the Site Access Control Point (ACP) also.

---

Drill Message:

Small Isolated Thunderstorms are in the area of Fort Calhoun Station.

Message #: 4

Elapsed Time: 1:35

From: Security

Real Time: 8:35

To: Officers at ACP

---

Controller Notes:

---

Drill Message:

Lightning has touched down in the Switchyard area.

Message #: 5

Elapsed Time: 1:35

From: Simulator Operator

Real Time: 8:35

To: Simulator Event

---

Controller Notes:

Diesel Generator #1 is the only source of AC power.

---

Drill Message:

Initiate a Loss of Offsite Power (161KV and 345KV power). Fail DS-T1 in the Shut Position.  
See Subdrill Two for more details.

Message #: 6

Elapsed Time: 1:35

From: Simulator Operator

Real Time: 8:35

To: Simulator Event

---

Controller Notes:

This event will result in meeting the criteria of SAE EAL 1.11.

---

Drill Message:

Initiate LBLOCA.



Message #: 7

Elapsed Time: 1:35

From: Operator & OSC Controllers

Real Time: 8:35

To: Inplant Operators or OSC Electrical Team(s)

---

Controller Notes:

DS-T1 cannot be allowed to be opened until 10:10 hours. Check with Senior Controller before allowing DS-T1 to be opened.

---

Drill Message:

When attempts are made to open DS-T1, it will not open, see Subdrill Two for more details.

Message #: 8

Elapsed Time: 1:35

From: Floor Instructor

Real Time: 8:35

To: Crew

---

**Controller Notes:**

Upon investigation, report that it will take about 2-hours to get 161 KV power back and about 1-hour to get 345 KV power back. Note: The problem with DS-T1 will not get repaired before 10:10.

---

**Drill Message:**

When asked, System Operations will dispatch a repair crew to the FCS Switchyard to investigate loss of 161 and 345 KV power. About 30 minutes later report to the Control Room that "161 KV should be made available at about 10:30 hours."

Message #: 9

Elapsed Time: 1:35

From: All controllers

Real Time: 8:35

To: All Participants in the Plant

---

Controller Notes:

Controller should constantly warn Participants that normal lighting is lost. Note: Lighting is still available in CARP Building, Radwaste Building, TSC, and Maintenance Shop. Senior Controller will advise the lead controllers when lighting is restored.

---

Drill Message:

Lightning: Due to the loss of offsite power normal lighting is lost in Auxiliary Building, Intake Structure, and Containment Building. Only emergency lighting is available in these areas.

Message #: 10

Elapsed Time: 1:50

From: Harrison & Pottawattamie County

Real Time: 8:50

To: Harrison and Pottawattamie EOCs

---

Controller Notes:

Pictures in Subdrill Six may be provided to Participants to better describe the situation and location of the train derailment.

---

Drill Message:

This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message". "A train hauling lumber and grain de-rails near the Harrison / Pottawattamie County Line. The train is hauling no hazardous materials. The location of the derailment is near a railroad crossing on State Hwy 362 near the intersection of US Hwy 183. There are no personnel injuries and neither the diesel engines nor the train cars are tipped over. The train is in the ditch, but upright. The power poles are broken on the east side of the tracks, but the power lines are intact and above ground level, there is no immediate electrical hazard."

Message #: 11

Elapsed Time: 1:50

From: WC EOC Controller

Real Time: 8:50

To: Washington County EOC

---

Controller Notes:

The bridge was actually under construction at the time the scenario was written. The construction may be completed at the time of the Exercise. Participants must assume the construction is still underway.

---

Drill Message:

Commence Subdrill Five – Construction Accident on US Hwy 30 Bridge in Washington County. This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message." "The 911 Center has received a phone call from the Construction Crew working on a bridge just west of Kennard, NE on US Hwy 30. A boom on a crane has collapsed and fallen onto the detour blocking both east and west bound traffic lanes of US Hwy 30. Traffic is backing up in both directions. There are no personnel injuries."

Message #: 12

Elapsed Time: 2:34

From: Simulator Operator

Real Time: 9:34

To: Simulator Event

---

Controller Notes:

---

Drill Message:

Initiate Fire Alarms in Diesel Generator Room Number 1.

Message #: 13

Elapsed Time: 2:34

From: Operator & OSC

Real Time: 9:34

To: Operators

---

Controller Notes:

See Subdrill Three.

---

Drill Message:

Upon entering Diesel Generator Room #1, heavy blue smoke is observed coming from the generator. The engine is still running. The smoke will continue until the engine is stopped and then the amount of smoke produced will slow to a stop. See Subdrill Three.

Message #: 14

Elapsed Time: 2:35

From: Simulator Operator

Real Time: 9:35

To: Simulator Event

---

Controller Notes:

Loss of DG-1 results in Station Blackout. With a LOCA in progress and no ECCS available; a judgment call of a "Sustained Loss of Shutdown Cooling" will lead to a General Emergency.

---

Drill Message:

Trip the output breaker for Diesel Generator #1.



Message #: 15

Elapsed Time: 2:45

From: WC EOC Controller

Real Time: 9:45

To: Washington County EOC

---

Controller Notes:

---

Drill Message:

This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message." The construction crew has pushed the crane boom off of the detour using a front-end loader. US Hwy 30 is open in both east and west directions."

Message #: 16

Elapsed Time: 2:50

From: Simulator Operator

Real Time: 9:50

To: Simulator Event

---

Controller Notes:

---

Drill Message:

Core uncover will occur at about this time.

Message #: 17

Elapsed Time: 3:05

From: Simulator Operator

Real Time: 10:05

To: Simulator Event

---

Controller Notes:

---

Drill Message:

CETs start to rise rapidly over next 15 minutes, some will reach 2300 °F.

Message #: 18

Elapsed Time: 3:10

From: OSC

Real Time: 10:10

To: Repair Team

---

Controller Notes:

---

Drill Message:

If reasonable actions have been taken, DS-T1 is opened.

Message #: 19

Elapsed Time: 3:10

From: Simulator Operator

Real Time: 10:10

To: To Crew

---

Controller Notes:

---

Drill Message:

System Operations reports that 161KV is available to energize safeguards busses.

Message #: 20

Elapsed Time: 3:20

From: Simulator Operator

Real Time: 10:20

To: Simulator Event

---

Controller Notes:

---

Drill Message:

Core Damage occurs.

Message #: 21

Elapsed Time: 3:50

From: Simulator Operator

Real Time: 10:50

To: Simulator Event

---

Controller Notes:

Release begins.

---

Drill Message:

Commence HPSI Suction Header Leak (See Subdrill Four)

Message #: 22

Elapsed Time: 5:00

From: Senior Controller

Real Time: 12:00

To: C&C

---

Controller Notes:

---

Drill Message:

This concludes the Plume Phase of the Exercise. OPPD Participants in the Simulator Control Room, TSC, OSC and EOF, secure from Exercise Scenario Activities, restore facilities, collect logs and records, and commence Facility Critiques.

MRC and State / County EOC's will resume Exercise Activities at 1300 hours. Their Critiques will follow Phase 2 of the Exercise.



Message #: 23

Elapsed Time: 5:00

From: Lead Evaluators

Real Time: 12:00

To: Participants

---

Controller Notes:

---

Drill Message:

Direct all players, evaluators and controllers to sign attendance sheets, offer each a participant comment sheet, take notes from your facility critique and give them to your lead evaluator.

Message #: 24

Elapsed Time: 5:00

From: Lead Evaluators

Real Time: 12:00

To: Participants

---

**Controller Notes:**

Before the Facility Critique is completed, ensure the Key Participants, Evaluators, and Lead Controllers are aware of the Key Participant Critique time and location.

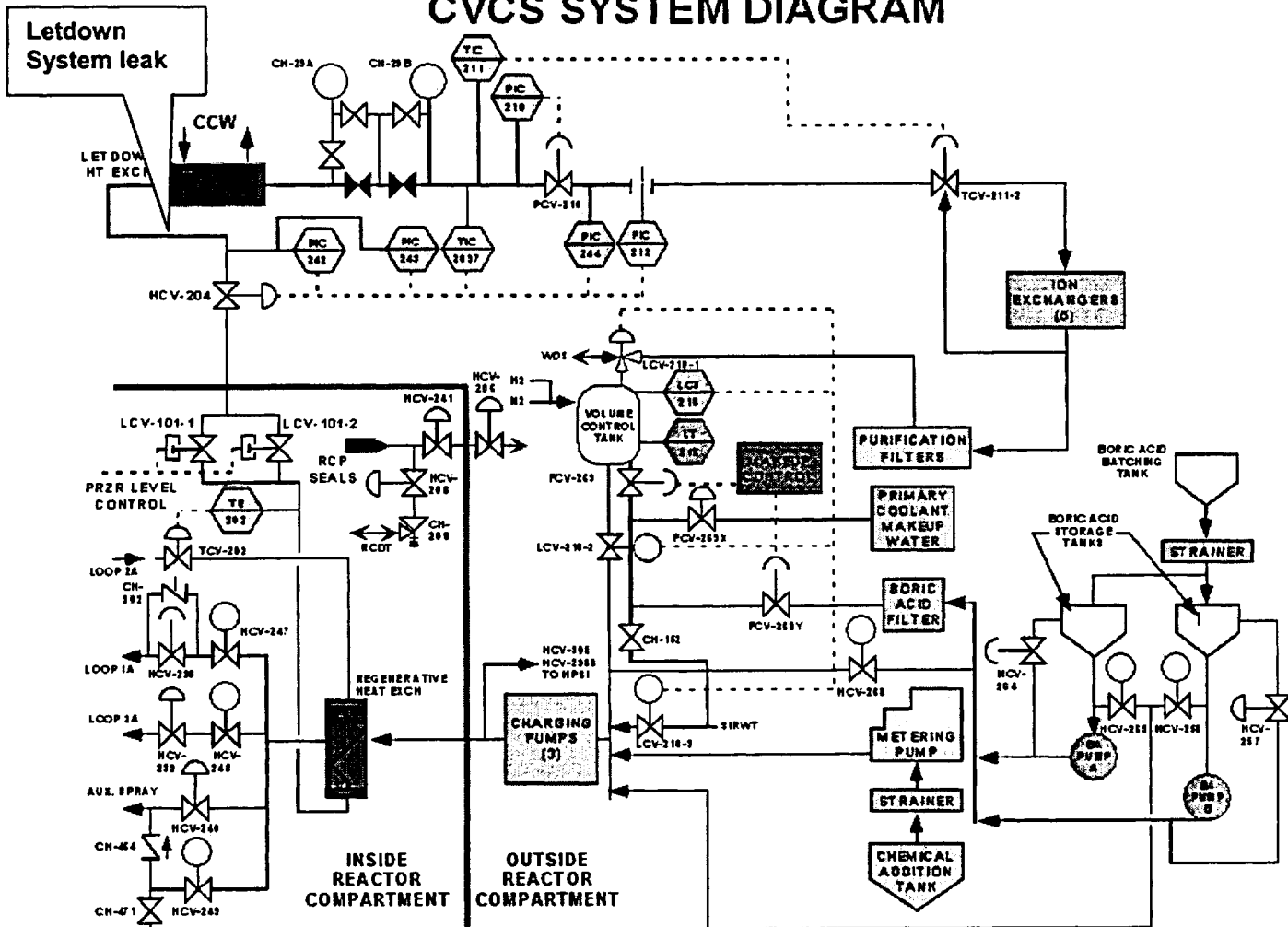
---

**Drill Message:**

**What:** Key Participant's Meeting (EPCT 03-07)  
**When:** Wednesday, June 25, 2003  
**Where:** Training Center Auditorium (0800-1000)  
**Who:** Key Participants: All Lead Evaluators & Lead Controllers, CR Shift Mgr., and all others who have Manager, Director or Coordinator in their ERO Titles for the June 24, 2003 NRC Graded Exercise

## CVCS SYSTEM DIAGRAM

**The Letdown leak can be isolated by shutting HCV-204, TCV-202, or by shutting both LCV-101-1 and LCV-101-2.**



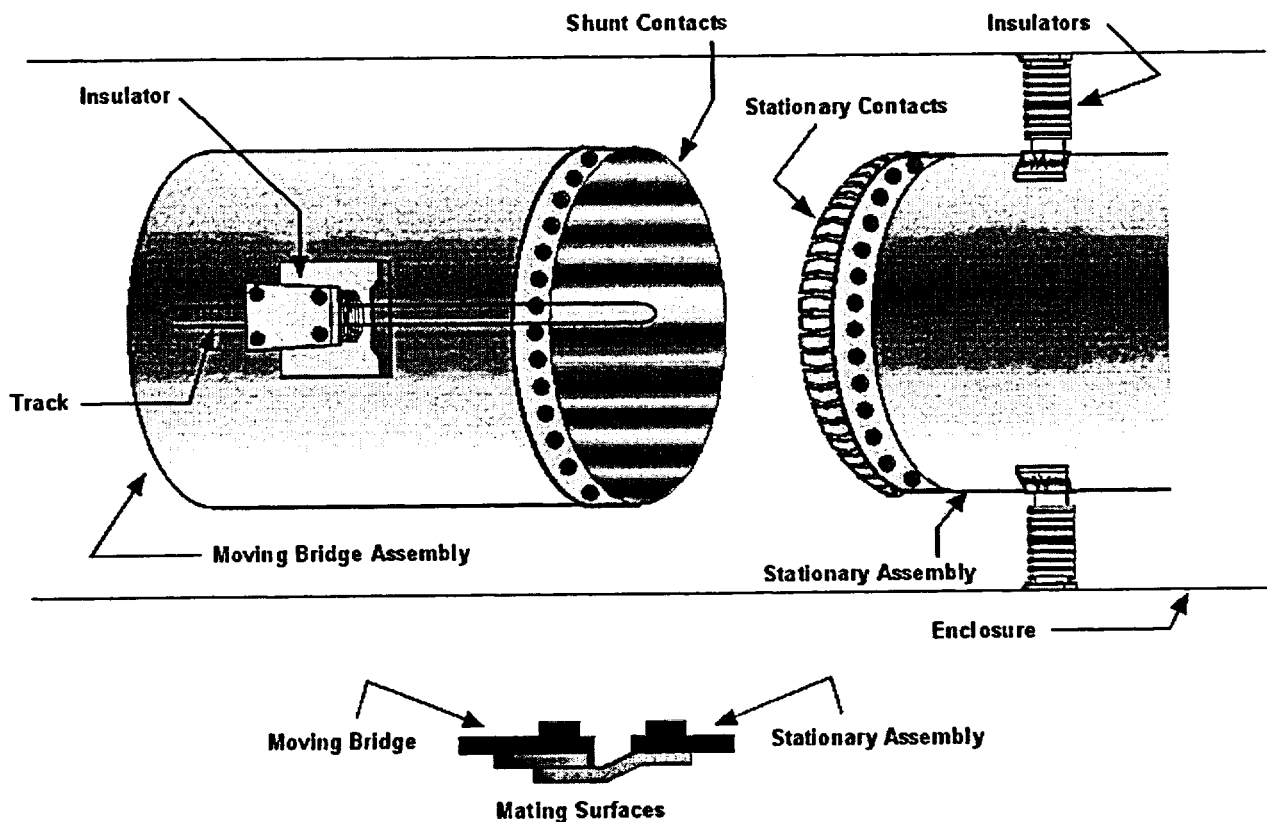
**CYC01AGR**

## Subdrill Two – DS-T1 Transformer T1 Disconnect Switch Problem

At 0835, a problem with the DS-T1 Transformer T1 Disconnect Switch will prevent back feeding 345 KV power to the safeguards busses until repairs are made. The disconnect switch must be opened in order to back feed 345 to the safeguards busses. The problem with DS-T1 is that the Moving Bridge Assembly has seized on Stationary Assembly and will not move.

DS-T1 is normally operated by a three position switch on CB-20; it can be operated from a local push button control at the operator or manually with a hand crank. None of these methods of operation will work to open DS-T1. After 1010 hours, innovative efforts to open DS-T1 can be rewarded with permission of the Senior Exercise Controller. Neither 161 nor 345 KV power can be available before 1010 hours.

## MOTOR-OPERATED TELESCOPING DISCONNECT

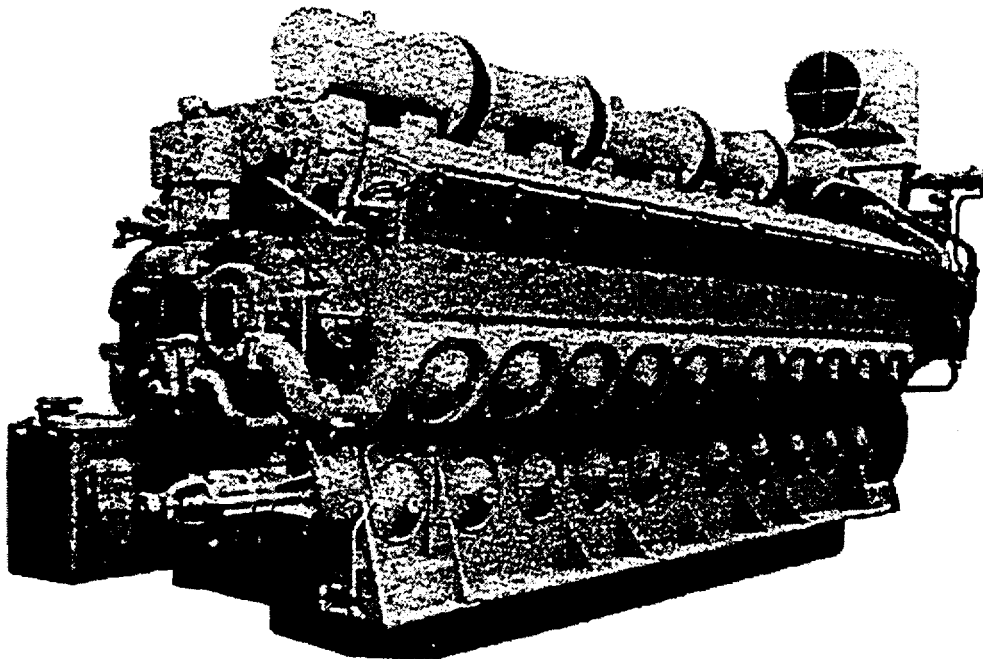


EDDST1

### **Subdrill Three – Electrical Fire in Diesel Generator #1**

At 0935, an electrical fire in Diesel Generator #1 causes it's output breaker to trip resulting in Station Blackout. A hotspot forms in the generator windings. The generator windings start to over heat. Generator insulation starts to burn. The generator windings short out. The Diesel Generator output breaker trips causing a Station Blackout condition. The Diesel Generator Room fills full of heavy blue smoke causing fire alarms in Diesel Generator Room 1. The diesel engine continues to run producing heavy blue smoke until it is manually shutdown.

## **DIESEL ENGINE**

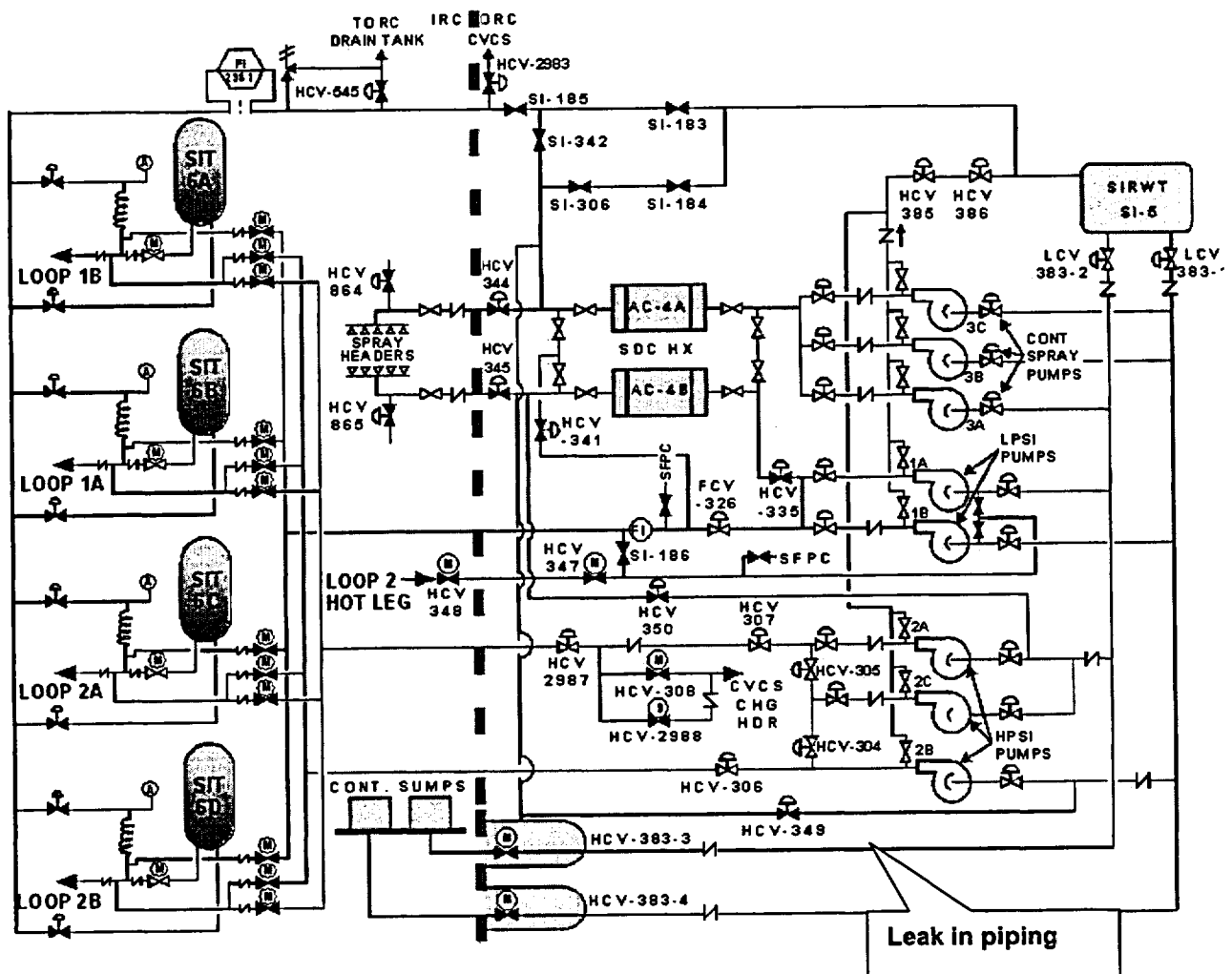


EDGENG

## Subdrill Four – HPSI Suction Header Leak

At about 0835 a leak occurs on the Auxiliary Building side of HCV-383-3 in the West Safety Injection Pump Room. Water from the Containment Floor drains into the Spent Regenerant Tank and Pump Room resulting in a release. Containment Pressure will be about 2-5 psig. The leak can be isolated by shutting HCV-383-3 from the Control Room. The warm water from the Containment will cause a few fire alarms in Room 23. Even with the leak isolated within 15 minutes, the release will last several hours due to the amount of fission products dumped into the Auxiliary Building. Radiological data is designed to meet offsite objectives and is not based on the leak rate or the time it takes to isolate the leak.

## EMERGENCY CORE COOLING SYSTEM



ECC SYSTEM

## **Subdrill Five – Construction Accident on US Hwy 30 Bridge in Washington County**

A bridge is under construction by the Nebraska Department of Roads on US Hwy 30 west of Kennard, NE. A detour has been constructed on the North side of the bridge to allow normal east and west traffic while work is being done on the bridge. At the construction site is a large crane, a front-end loader and several pickups. There are 7 workers at the construction site at the time of the event.

At 08:50, the Washington County 911 Center receives a cell phone call from the bridge construction site that the boom on the crane has collapsed and fallen onto the detour around the bridge construction site. Both east and west traffic lanes are completely blocked. US Hwy 30 Traffic is backing up. No one is injured.

Impact – Both east and west bound traffic is stalled on US Hwy 30, which is the evacuation route to the Fremont Reception and Care Center. Traffic can be directed around the area using county roads. Construction personnel at the site can use the front-end loader to push the crane boom off the roadway of the detour.

At 09:35, the construction crew is taking the initiative to push the crane boom off of the detour. At 9:45 the crane boom has been pushed off the roadway and both east and west bound traffic can move again. This message can be relayed to the 911 Center by the State Patrol, Sheriffs Department or the construction site personnel.

### **Messages:**

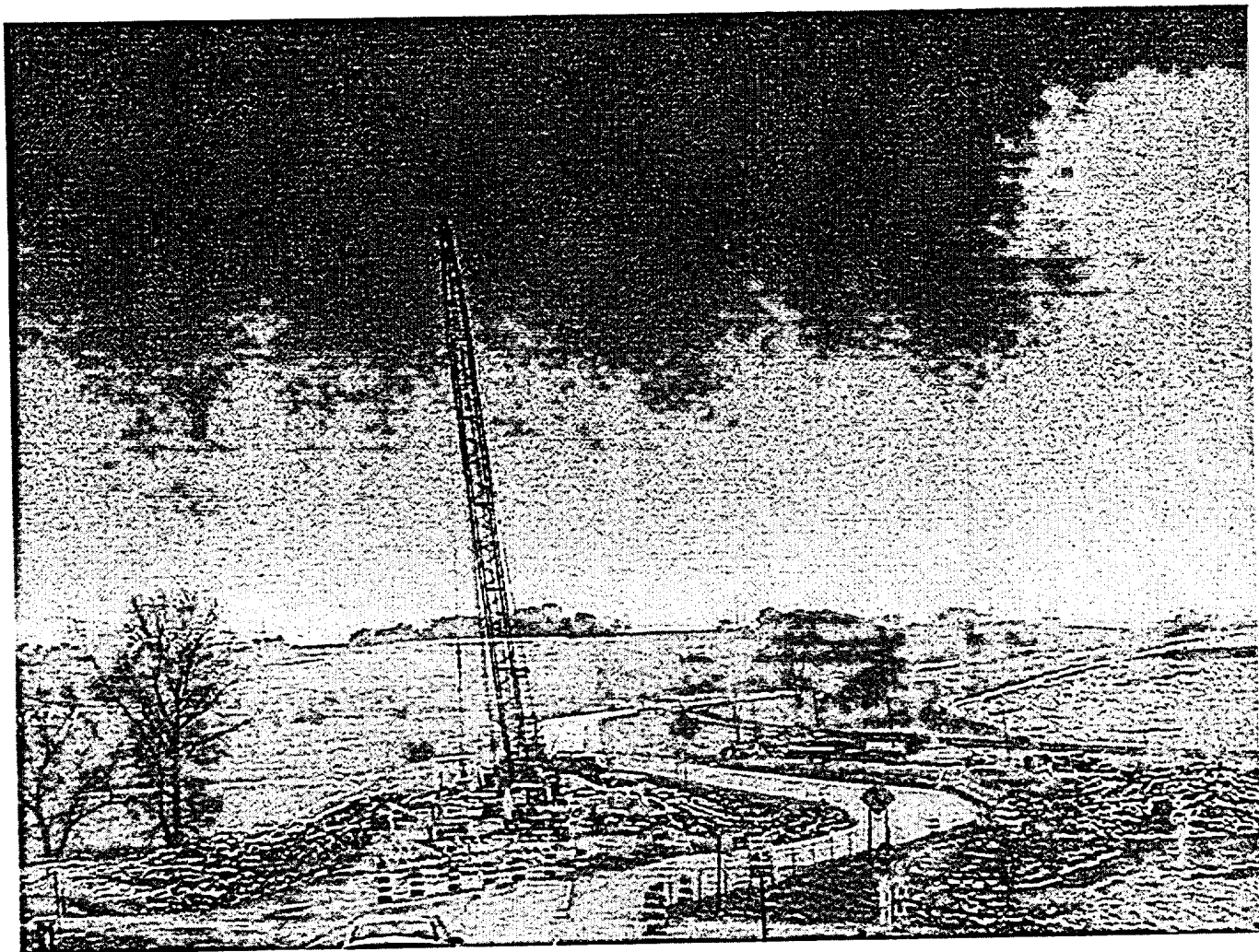
**08:50** From the Washington County EOC Controller to the EOC:

**This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message". "The 911 Center has received a phone call from the construction crew working on a bridge just West of Kennard, NE on US Hwy 30. A boom on a crane has collapsed and fallen onto the detour blocking both east and west bound traffic lanes of US Hwy 30. Traffic is backing up in both directions. There are no personnel injuries." "This is a Drill Message."**

**NOTE:** The controller may provide a copy of the attached pictures to better communicate what the problem is and to ensure the location is understood.

**09:45** From the Washington County EOC Controller to the EOC:

**This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message". The construction crew has pushed the crane boom off of the detour using a front-end loader. US Hwy 30 is open in both east and west directions." "This is a Drill Message."**

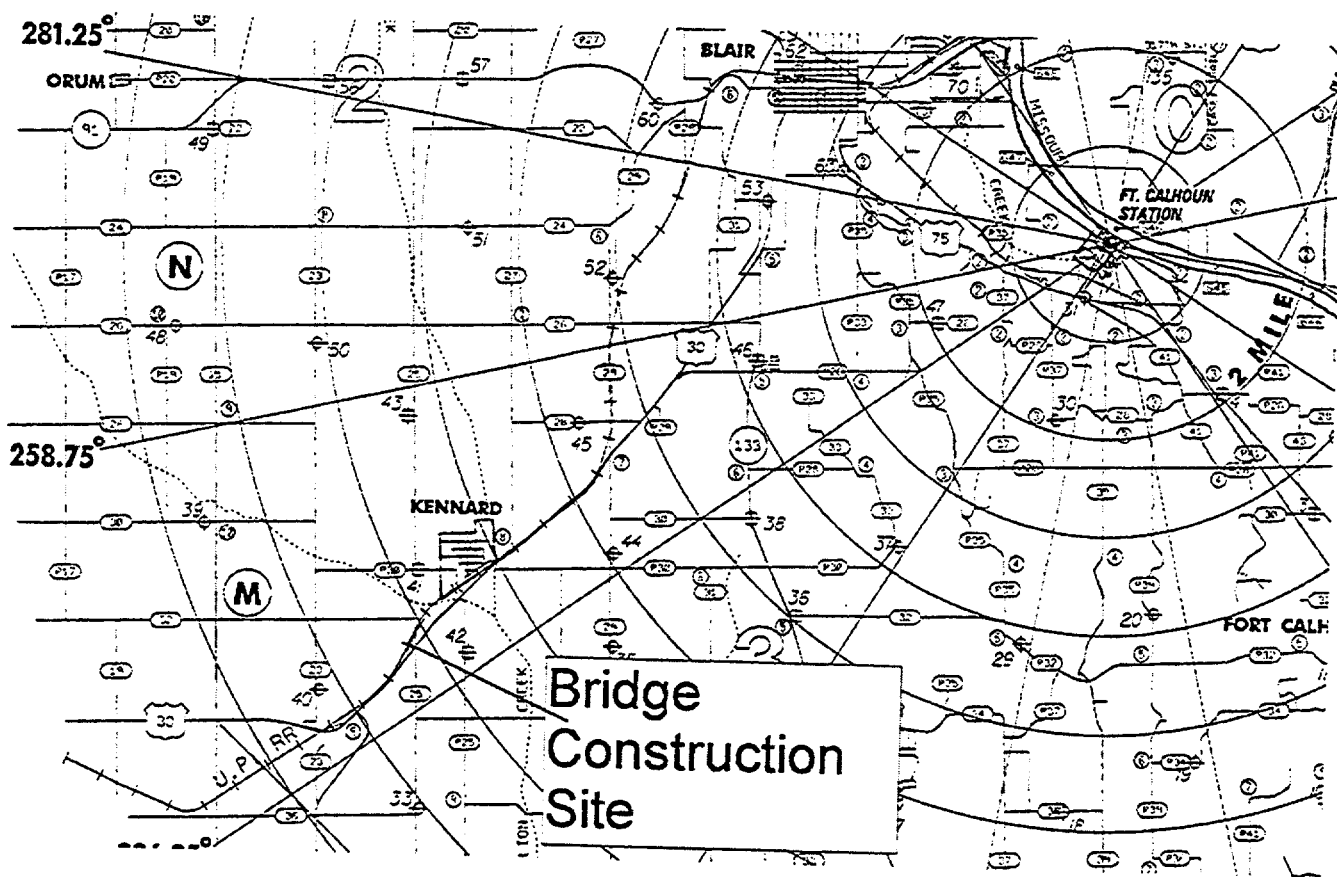


**Crane, Boom and Detour that is blocked after the boom collapses.**

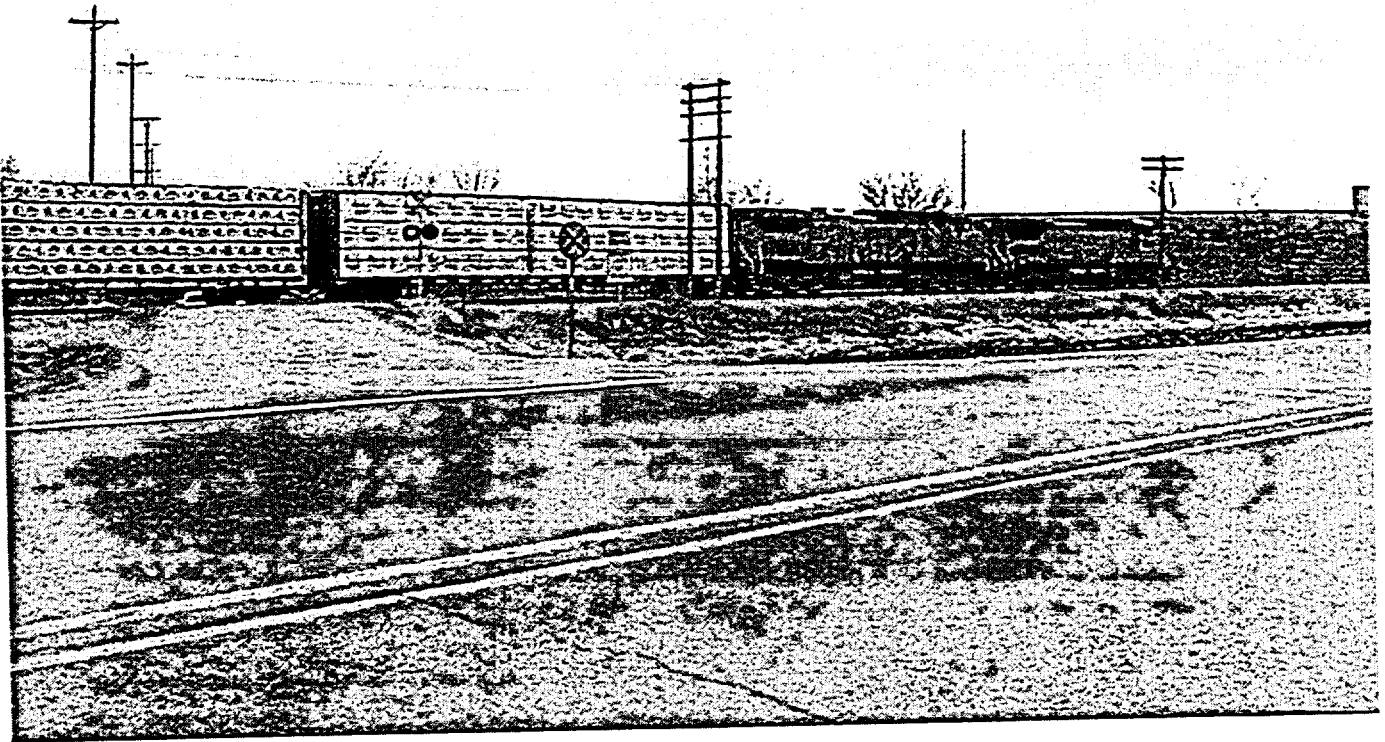




Front-End Loader used to push the boom off of the roadway.

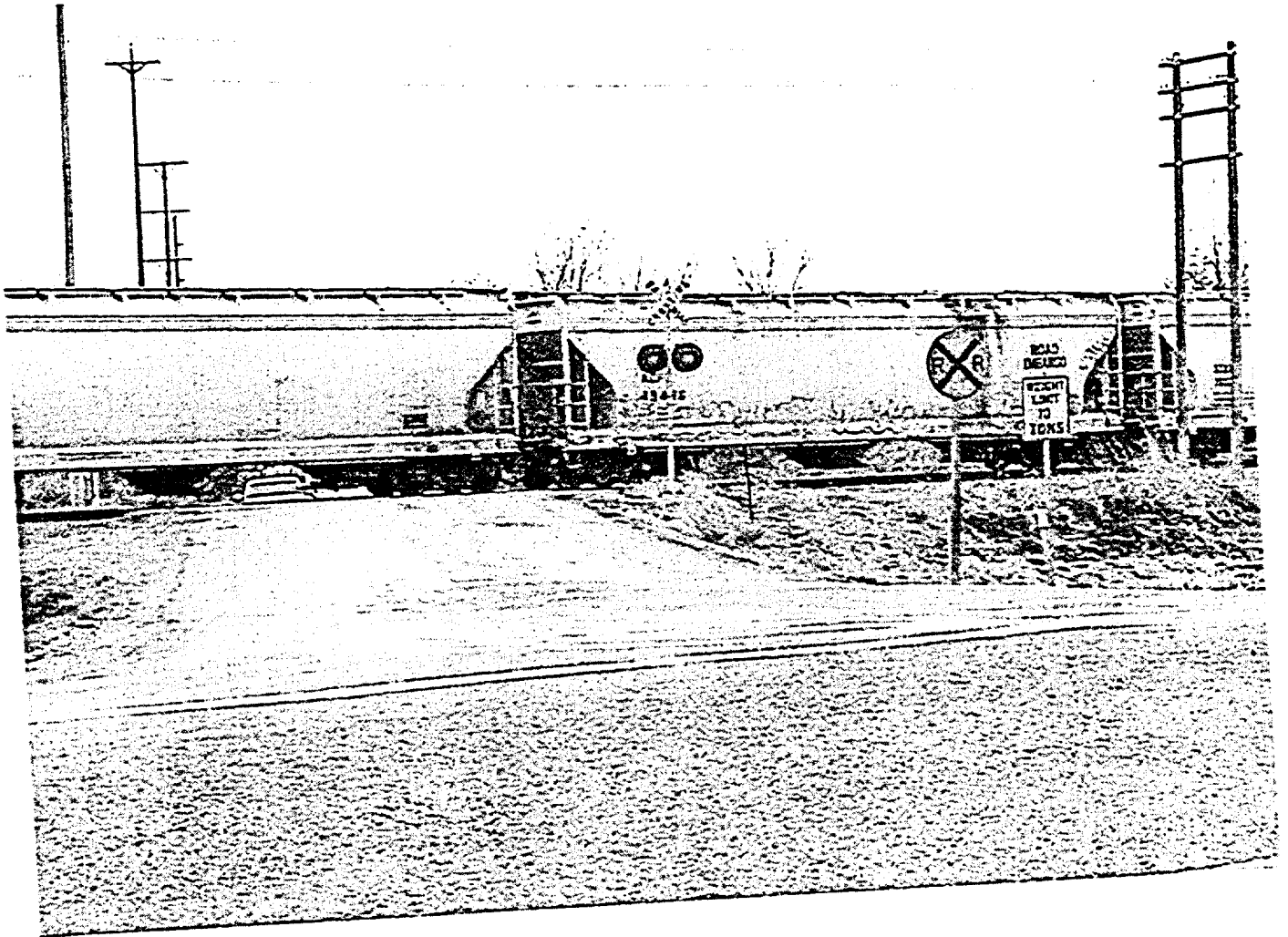


Map showing the location of the construction site accident and possible routes around the area.

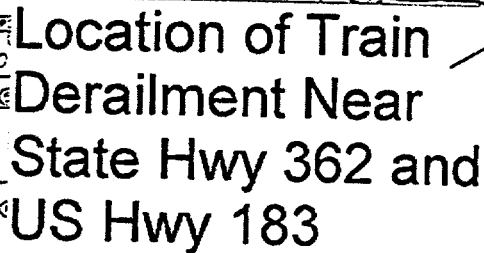


This is the intersection of State Hwy 362 and US Hwy 183 near the Harrison / Pottawattamie County Line (looking west). The train is in the ditch, but upright. The power poles are broken on this side of the train, but the lines are intact and above ground level, there is no immediate electrical hazard.

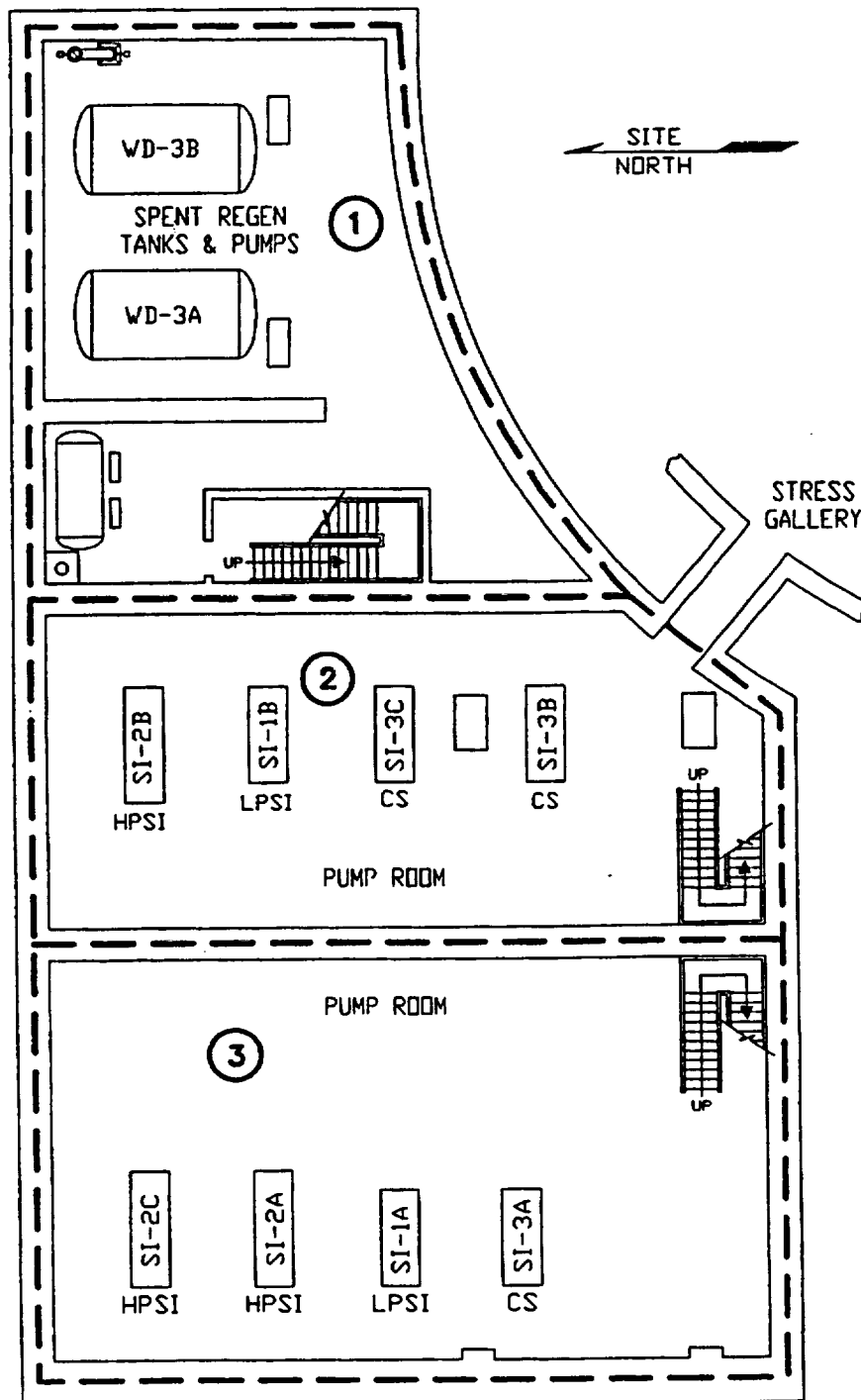
The train derailment is blocking the railroad crossing. The road is State Hwy 363, all east/west traffic is blocked.



Grain Cars on the Train

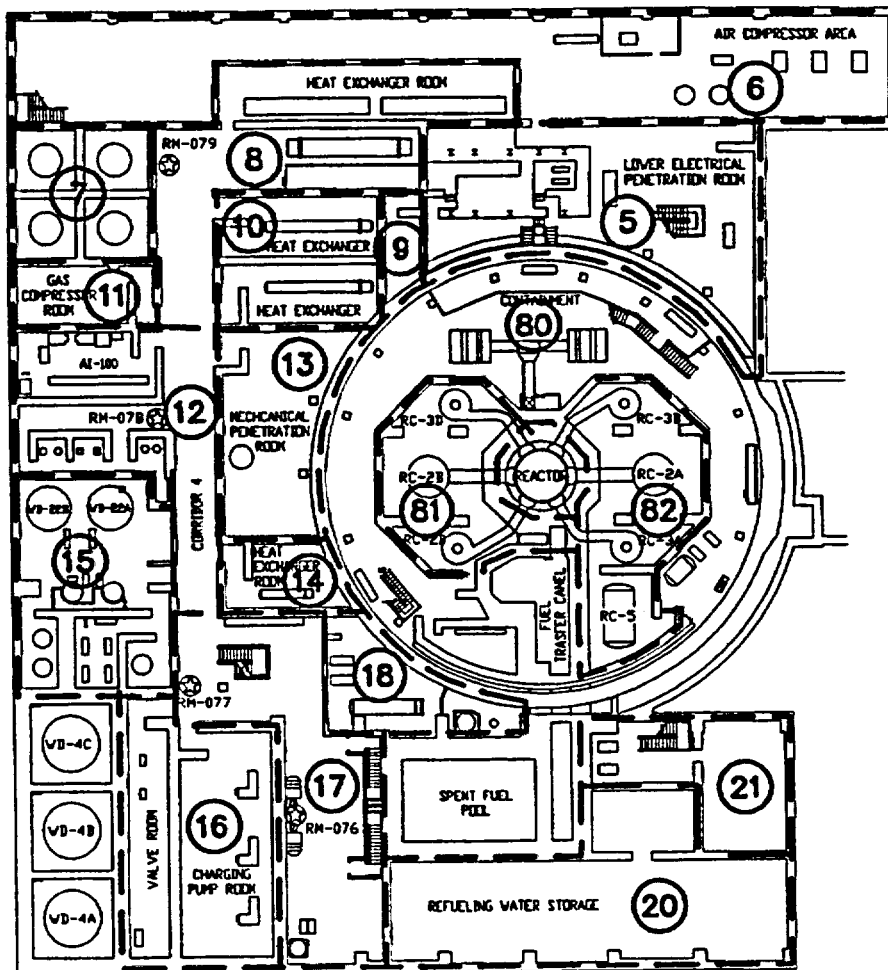


49



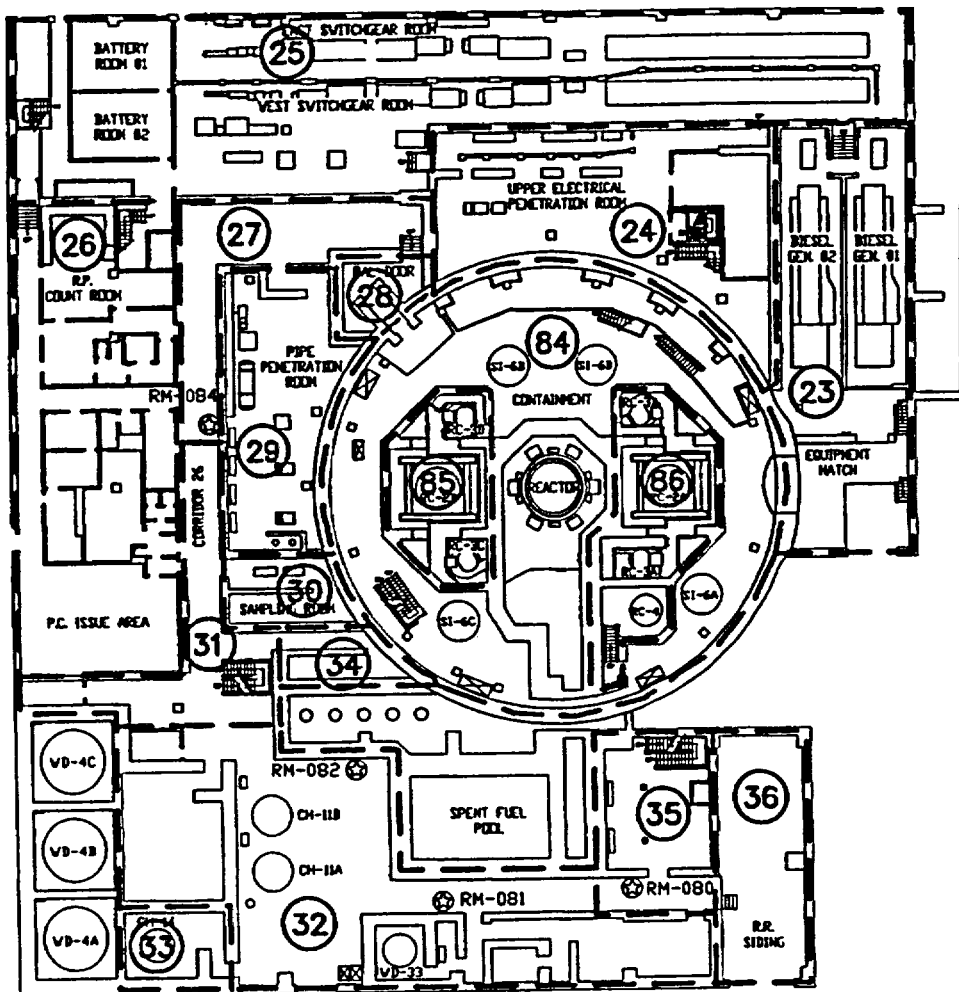
AUXILIARY BUILDING  
SI PUMP ROOM LEVEL  
ELEV. 971'

SITE  
NORTH



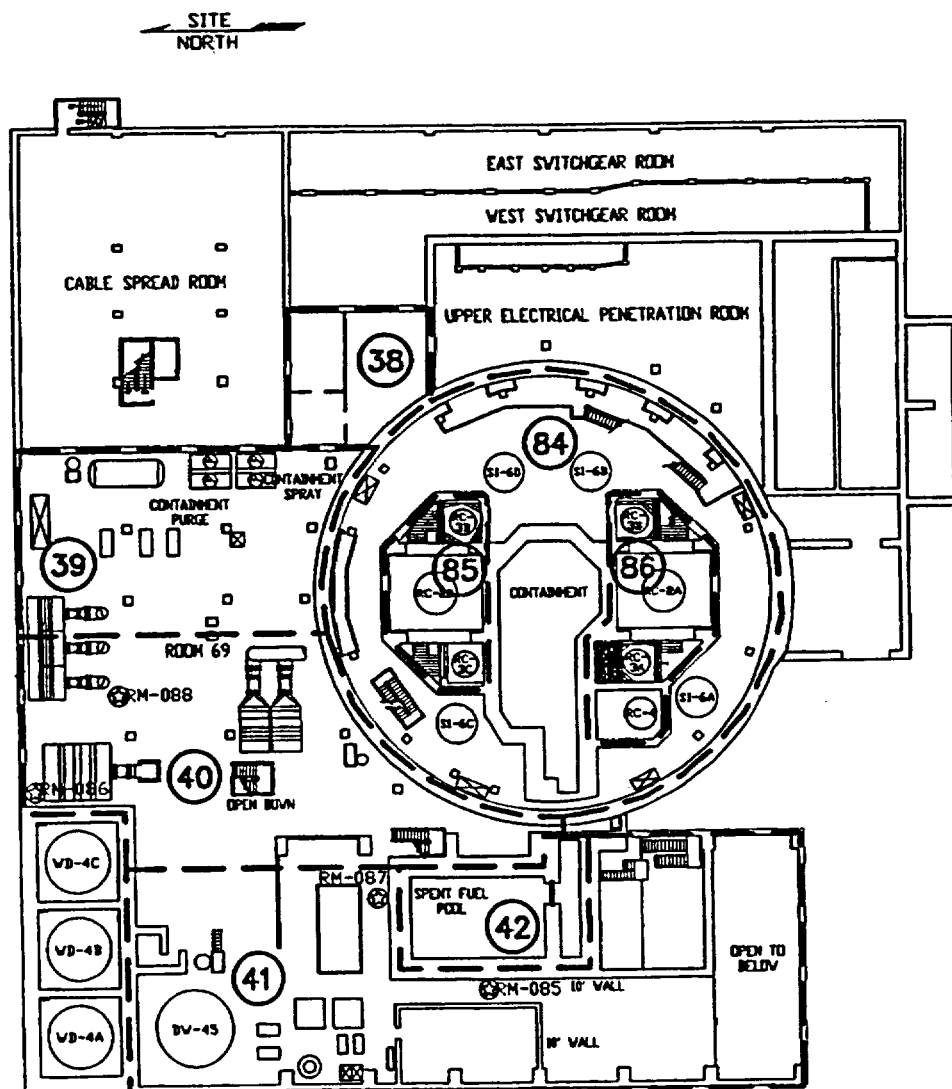
AUXILIARY BUILDING  
CORRIDOR 4 LEVEL  
ELEV. 989'

SITE  
NORTH

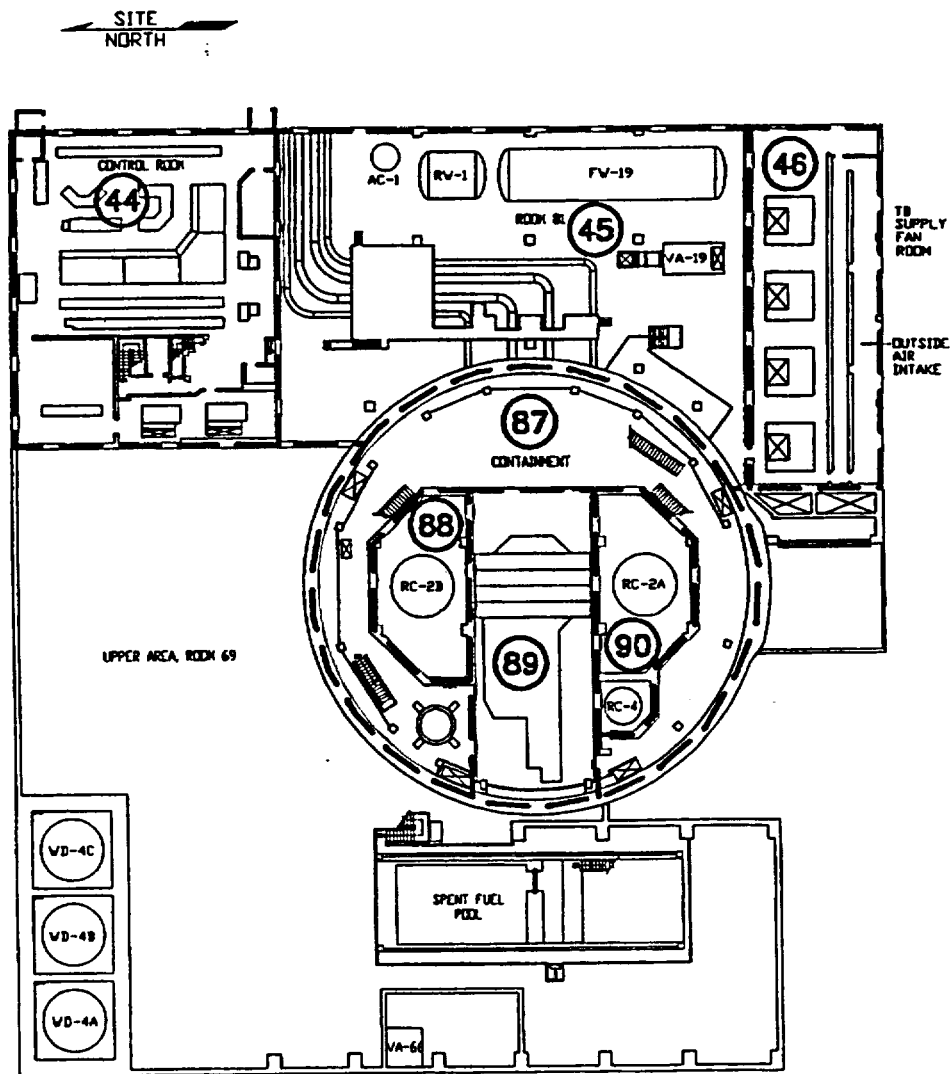


AUXILIARY BUILDING  
CORRIDOR 26 LEVEL  
ELEV. 1007' & 1013'

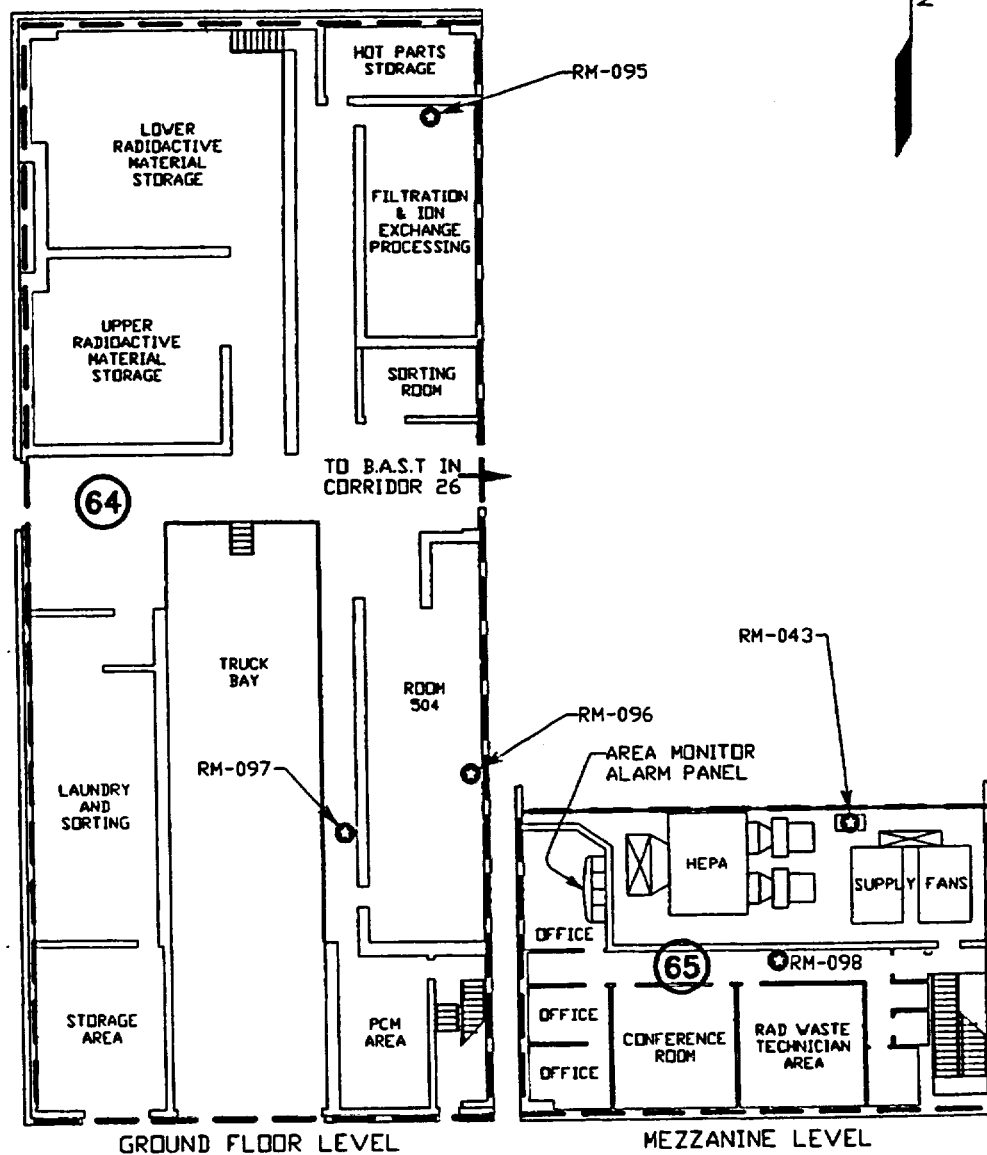




**AUXILIARY BUILDING**  
ROOM 69 LEVEL  
ELEV. 1025'



**AUXILIARY BUILDING**  
**ROOM 81 / CONTROL RM**  
 ELEV. 1036'



## RAD WASTE BUILDING

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Containment											
		Basement 994' Area 80		RC-2B Bay Area 81		RC-2A Bay Area 82		1013 Level Area 84		2B Pump Bay Area 85		2A Pump Bay Area 86	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed
7:00	0:00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:05	0:05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:10	0:10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:15	0:15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:20	0:20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:25	0:25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:30	0:30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:35	0:35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:40	0:40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:45	0:45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:50	0:50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
7:55	0:55	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	<0.1	<0.1	<0.1	<0.1
8:00	1:00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:05	1:05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:10	1:10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:15	1:15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:20	1:20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:25	1:25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:30	1:30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:35	1:35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	4	43	33	72	56
8:40	1:40	1.5E+06	1.2E+06	1.5E+06	1.2E+06	1.5E+06	1.2E+06	1.5E+06	1.2E+06	1.5E+06	1.2E+06	1.5E+06	1.2E+06
8:45	1:45	4.9E+06	3.8E+06	4.9E+06	3.8E+06	4.9E+06	3.8E+06	4.9E+06	3.8E+06	4.9E+06	3.8E+06	4.9E+06	3.8E+06
8:50	1:50	7.0E+06	5.4E+06	7.0E+06	5.4E+06	7.0E+06	5.4E+06	7.0E+06	5.4E+06	7.0E+06	5.4E+06	7.0E+06	5.4E+06
8:55	1:55	5.6E+06	4.3E+06	5.6E+06	4.3E+06	5.6E+06	4.3E+06	5.6E+06	4.3E+06	5.6E+06	4.3E+06	5.6E+06	4.3E+06
9:00	2:00	4.7E+06	3.6E+06	4.7E+06	3.6E+06	4.7E+06	3.6E+06	4.7E+06	3.6E+06	4.7E+06	3.6E+06	4.7E+06	3.6E+06
9:05	2:05	3.9E+06	3.0E+06	3.9E+06	3.0E+06	3.9E+06	3.0E+06	3.9E+06	3.0E+06	3.9E+06	3.0E+06	3.9E+06	3.0E+06
9:10	2:10	3.4E+06	2.6E+06	3.4E+06	2.6E+06	3.4E+06	2.6E+06	3.4E+06	2.6E+06	3.4E+06	2.6E+06	3.4E+06	2.6E+06
9:15	2:15	2.9E+06	2.2E+06	2.9E+06	2.2E+06	2.9E+06	2.2E+06	2.9E+06	2.2E+06	2.9E+06	2.2E+06	2.9E+06	2.2E+06
9:20	2:20	2.5E+06	2.0E+06	2.5E+06	2.0E+06	2.5E+06	2.0E+06	2.5E+06	2.0E+06	2.5E+06	2.0E+06	2.5E+06	2.0E+06
9:25	2:25	2.2E+06	1.7E+06	2.2E+06	1.7E+06	2.2E+06	1.7E+06	2.2E+06	1.7E+06	2.2E+06	1.7E+06	2.2E+06	1.7E+06
9:30	2:30	2.0E+06	1.5E+06	2.0E+06	1.5E+06	2.0E+06	1.5E+06	2.0E+06	1.5E+06	2.0E+06	1.5E+06	2.0E+06	1.5E+06
9:35	2:35	1.7E+06	1.3E+06	1.7E+06	1.3E+06	1.7E+06	1.3E+06	1.7E+06	1.3E+06	1.7E+06	1.3E+06	1.7E+06	1.3E+06
9:40	2:40	1.6E+06	1.2E+06	1.6E+06	1.2E+06	1.6E+06	1.2E+06	1.6E+06	1.2E+06	1.6E+06	1.2E+06	1.6E+06	1.2E+06
9:45	2:45	1.3E+06	1.0E+06	1.3E+06	1.0E+06	1.3E+06	1.0E+06	1.3E+06	1.0E+06	1.3E+06	1.0E+06	1.3E+06	1.0E+06
9:50	2:50	1.2E+06	8.9E+05	1.2E+06	8.9E+05	1.2E+06	8.9E+05	1.2E+06	8.9E+05	1.2E+06	8.9E+05	1.2E+06	8.9E+05
9:55	2:55	1.0E+06	7.7E+05	1.0E+06	7.7E+05	1.0E+06	7.7E+05	1.0E+06	7.7E+05	1.0E+06	7.7E+05	1.0E+06	7.7E+05

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Containment											
		Basement 994' Area 80		RC-2B Bay Area 81		RC-2A Bay Area 82		1013 Level Area 84		2B Pump Bay Area 85		2A Pump Bay Area 86	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed
10:00	3:00	8.8E+05	6.7E+05	8.8E+05	6.7E+05	8.8E+05	6.7E+05	8.8E+05	6.7E+05	8.8E+05	6.7E+05	8.8E+05	6.7E+05
10:05	3:05	7.7E+05	5.9E+05	7.7E+05	5.9E+05	7.7E+05	5.9E+05	7.7E+05	5.9E+05	7.7E+05	5.9E+05	7.7E+05	5.9E+05
10:10	3:10	6.7E+05	5.2E+05	6.7E+05	5.2E+05	6.7E+05	5.2E+05	6.7E+05	5.2E+05	6.7E+05	5.2E+05	6.7E+05	5.2E+05
10:15	3:15	5.9E+05	4.5E+05	5.9E+05	4.5E+05	5.9E+05	4.5E+05	5.9E+05	4.5E+05	5.9E+05	4.5E+05	5.9E+05	4.5E+05
10:20	3:20	5.2E+05	4.0E+05	5.2E+05	4.0E+05	5.2E+05	4.0E+05	5.2E+05	4.0E+05	5.2E+05	4.0E+05	5.2E+05	4.0E+05
10:25	3:25	8.7E+05	6.7E+05	8.7E+05	6.7E+05	8.7E+05	6.7E+05	8.7E+05	6.7E+05	8.7E+05	6.7E+05	8.7E+05	6.7E+05
10:30	3:30	1.9E+06	1.5E+06	1.9E+06	1.5E+06	1.9E+06	1.5E+06	1.9E+06	1.5E+06	1.9E+06	1.5E+06	1.9E+06	1.5E+06
10:35	3:35	1.9E+07	1.4E+07	1.9E+07	1.4E+07	1.9E+07	1.4E+07	1.9E+07	1.4E+07	1.9E+07	1.4E+07	1.9E+07	1.4E+07
10:40	3:40	2.1E+08	1.6E+08	2.1E+08	1.6E+08	2.1E+08	1.6E+08	2.1E+08	1.6E+08	2.1E+08	1.6E+08	2.1E+08	1.6E+08
10:45	3:45	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08
10:50	3:50	4.8E+08	3.7E+08	4.8E+08	3.7E+08	4.8E+08	3.7E+08	4.8E+08	3.7E+08	4.8E+08	3.7E+08	4.8E+08	3.7E+08
10:55	3:55	5.4E+08	4.2E+08	5.4E+08	4.2E+08	5.4E+08	4.2E+08	5.4E+08	4.2E+08	5.4E+08	4.2E+08	5.4E+08	4.2E+08
11:00	4:00	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08
11:05	4:05	5.8E+08	4.5E+08	5.8E+08	4.5E+08	5.8E+08	4.5E+08	5.8E+08	4.5E+08	5.8E+08	4.5E+08	5.8E+08	4.5E+08
11:10	4:10	5.8E+08	4.4E+08	5.8E+08	4.4E+08	5.8E+08	4.4E+08	5.8E+08	4.4E+08	5.8E+08	4.4E+08	5.8E+08	4.4E+08
11:15	4:15	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08
11:20	4:20	5.5E+08	4.3E+08	5.5E+08	4.3E+08	5.5E+08	4.3E+08	5.5E+08	4.3E+08	5.5E+08	4.3E+08	5.5E+08	4.3E+08
11:25	4:25	5.3E+08	4.1E+08	5.3E+08	4.1E+08	5.3E+08	4.1E+08	5.3E+08	4.1E+08	5.3E+08	4.1E+08	5.3E+08	4.1E+08
11:30	4:30	5.1E+08	4.0E+08	5.1E+08	4.0E+08	5.1E+08	4.0E+08	5.1E+08	4.0E+08	5.1E+08	4.0E+08	5.1E+08	4.0E+08
11:35	4:35	4.9E+08	3.8E+08	4.9E+08	3.8E+08	4.9E+08	3.8E+08	4.9E+08	3.8E+08	4.9E+08	3.8E+08	4.9E+08	3.8E+08
11:40	4:40	4.7E+08	3.6E+08	4.7E+08	3.6E+08	4.7E+08	3.6E+08	4.7E+08	3.6E+08	4.7E+08	3.6E+08	4.7E+08	3.6E+08
11:45	4:45	4.5E+08	3.4E+08	4.5E+08	3.4E+08	4.5E+08	3.4E+08	4.5E+08	3.4E+08	4.5E+08	3.4E+08	4.5E+08	3.4E+08
11:50	4:50	4.2E+08	3.3E+08	4.2E+08	3.3E+08	4.2E+08	3.3E+08	4.2E+08	3.3E+08	4.2E+08	3.3E+08	4.2E+08	3.3E+08
11:55	4:55	4.0E+08	3.1E+08	4.0E+08	3.1E+08	4.0E+08	3.1E+08	4.0E+08	3.1E+08	4.0E+08	3.1E+08	4.0E+08	3.1E+08
12:00	5:00	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08
12:05	5:05	3.6E+08	2.7E+08	3.6E+08	2.7E+08	3.6E+08	2.7E+08	3.6E+08	2.7E+08	3.6E+08	2.7E+08	3.6E+08	2.7E+08
12:10	5:10	3.3E+08	2.6E+08	3.3E+08	2.6E+08	3.3E+08	2.6E+08	3.3E+08	2.6E+08	3.3E+08	2.6E+08	3.3E+08	2.6E+08
12:15	5:15	3.1E+08	2.4E+08	3.1E+08	2.4E+08	3.1E+08	2.4E+08	3.1E+08	2.4E+08	3.1E+08	2.4E+08	3.1E+08	2.4E+08
12:20	5:20	2.9E+08	2.3E+08	2.9E+08	2.3E+08	2.9E+08	2.3E+08	2.9E+08	2.3E+08	2.9E+08	2.3E+08	2.9E+08	2.3E+08
12:25	5:25	2.8E+08	2.1E+08	2.8E+08	2.1E+08	2.8E+08	2.1E+08	2.8E+08	2.1E+08	2.8E+08	2.1E+08	2.8E+08	2.1E+08
12:30	5:30	2.6E+08	2.0E+08	2.6E+08	2.0E+08	2.6E+08	2.0E+08	2.6E+08	2.0E+08	2.6E+08	2.0E+08	2.6E+08	2.0E+08

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Containment							
		1045 Level Area 87		1057 RC-2B Area 88		Rx Cavity Area 89		1057 RC-2B Area 90	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed
7:00	0:00	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:05	0:05	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:10	0:10	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:15	0:15	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:20	0:20	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:25	0:25	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:30	0:30	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:35	0:35	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:40	0:40	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:45	0:45	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:50	0:50	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
7:55	0:55	104	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
8:00	1:00	26	20	238	183	< 0.1	< 0.1	293	225
8:05	1:05	26	20	238	183	< 0.1	< 0.1	293	225
8:10	1:10	26	20	238	183	< 0.1	< 0.1	293	225
8:15	1:15	26	20	238	183	< 0.1	< 0.1	293	225
8:20	1:20	26	20	238	183	< 0.1	< 0.1	293	225
8:25	1:25	26	20	238	183	< 0.1	< 0.1	293	225
8:30	1:30	26	20	238	183	< 0.1	< 0.1	293	225
8:35	1:35	26	20	238	183	< 0.1	< 0.1	293	225
8:40	1:40	1.5E+06	1.2E+06	1.5E+06	1.2E+06	1.5E+06	1.2E+06	1.5E+06	1.2E+06
8:45	1:45	4.9E+06	3.8E+06	4.9E+06	3.8E+06	4.9E+06	3.8E+06	4.9E+06	3.8E+06
8:50	1:50	7.0E+06	5.4E+06	7.0E+06	5.4E+06	7.0E+06	5.4E+06	7.0E+06	5.4E+06
8:55	1:55	5.6E+06	4.3E+06	5.6E+06	4.3E+06	5.6E+06	4.3E+06	5.6E+06	4.3E+06
9:00	2:00	4.7E+06	3.6E+06	4.7E+06	3.6E+06	4.7E+06	3.6E+06	4.7E+06	3.6E+06
9:05	2:05	3.9E+06	3.0E+06	3.9E+06	3.0E+06	3.9E+06	3.0E+06	3.9E+06	3.0E+06
9:10	2:10	3.4E+06	2.6E+06	3.4E+06	2.6E+06	3.4E+06	2.6E+06	3.4E+06	2.6E+06
9:15	2:15	2.9E+06	2.2E+06	2.9E+06	2.2E+06	2.9E+06	2.2E+06	2.9E+06	2.2E+06
9:20	2:20	2.5E+06	2.0E+06	2.5E+06	2.0E+06	2.5E+06	2.0E+06	2.5E+06	2.0E+06
9:25	2:25	2.2E+06	1.7E+06	2.2E+06	1.7E+06	2.2E+06	1.7E+06	2.2E+06	1.7E+06
9:30	2:30	2.0E+06	1.5E+06	2.0E+06	1.5E+06	2.0E+06	1.5E+06	2.0E+06	1.5E+06
9:35	2:35	1.7E+06	1.3E+06	1.7E+06	1.3E+06	1.7E+06	1.3E+06	1.7E+06	1.3E+06
9:40	2:40	1.6E+06	1.2E+06	1.6E+06	1.2E+06	1.6E+06	1.2E+06	1.6E+06	1.2E+06
9:45	2:45	1.3E+06	1.0E+06	1.3E+06	1.0E+06	1.3E+06	1.0E+06	1.3E+06	1.0E+06
9:50	2:50	1.2E+06	8.9E+05	1.2E+06	8.9E+05	1.2E+06	8.9E+05	1.2E+06	8.9E+05
9:55	2:55	1.0E+06	7.7E+05	1.0E+06	7.7E+05	1.0E+06	7.7E+05	1.0E+06	7.7E+05

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Containment							
		1045 Level Area 87		1057 RC-2B Area 88		Rx Cavity Area 89		1057 RC-2B Area 90	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed
10:00	3:00	8.8E+05	6.7E+05	8.8E+05	6.7E+05	8.8E+05	6.7E+05	8.8E+05	6.7E+05
10:05	3:05	7.7E+05	5.9E+05	7.7E+05	5.9E+05	7.7E+05	5.9E+05	7.7E+05	5.9E+05
10:10	3:10	6.7E+05	5.2E+05	6.7E+05	5.2E+05	6.7E+05	5.2E+05	6.7E+05	5.2E+05
10:15	3:15	5.9E+05	4.5E+05	5.9E+05	4.5E+05	5.9E+05	4.5E+05	5.9E+05	4.5E+05
10:20	3:20	5.2E+05	4.0E+05	5.2E+05	4.0E+05	5.2E+05	4.0E+05	5.2E+05	4.0E+05
10:25	3:25	8.7E+05	6.7E+05	8.7E+05	6.7E+05	8.7E+05	6.7E+05	8.7E+05	6.7E+05
10:30	3:30	1.9E+06	1.5E+06	1.9E+06	1.5E+06	1.9E+06	1.5E+06	1.9E+06	1.5E+06
10:35	3:35	1.9E+07	1.4E+07	1.9E+07	1.4E+07	1.9E+07	1.4E+07	1.9E+07	1.4E+07
10:40	3:40	2.1E+08	1.6E+08	2.1E+08	1.6E+08	2.1E+08	1.6E+08	2.1E+08	1.6E+08
10:45	3:45	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08
10:50	3:50	4.8E+08	3.7E+08	4.8E+08	3.7E+08	4.8E+08	3.7E+08	4.8E+08	3.7E+08
10:55	3:55	5.4E+08	4.2E+08	5.4E+08	4.2E+08	5.4E+08	4.2E+08	5.4E+08	4.2E+08
11:00	4:00	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08
11:05	4:05	5.8E+08	4.5E+08	5.8E+08	4.5E+08	5.8E+08	4.5E+08	5.8E+08	4.5E+08
11:10	4:10	5.8E+08	4.4E+08	5.8E+08	4.4E+08	5.8E+08	4.4E+08	5.8E+08	4.4E+08
11:15	4:15	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08	5.7E+08	4.4E+08
11:20	4:20	5.5E+08	4.3E+08	5.5E+08	4.3E+08	5.5E+08	4.3E+08	5.5E+08	4.3E+08
11:25	4:25	5.3E+08	4.1E+08	5.3E+08	4.1E+08	5.3E+08	4.1E+08	5.3E+08	4.1E+08
11:30	4:30	5.1E+08	4.0E+08	5.1E+08	4.0E+08	5.1E+08	4.0E+08	5.1E+08	4.0E+08
11:35	4:35	4.9E+08	3.8E+08	4.9E+08	3.8E+08	4.9E+08	3.8E+08	4.9E+08	3.8E+08
11:40	4:40	4.7E+08	3.6E+08	4.7E+08	3.6E+08	4.7E+08	3.6E+08	4.7E+08	3.6E+08
11:45	4:45	4.5E+08	3.4E+08	4.5E+08	3.4E+08	4.5E+08	3.4E+08	4.5E+08	3.4E+08
11:50	4:50	4.2E+08	3.3E+08	4.2E+08	3.3E+08	4.2E+08	3.3E+08	4.2E+08	3.3E+08
11:55	4:55	4.0E+08	3.1E+08	4.0E+08	3.1E+08	4.0E+08	3.1E+08	4.0E+08	3.1E+08
12:00	5:00	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08	3.8E+08	2.9E+08
12:05	5:05	3.6E+08	2.7E+08	3.6E+08	2.7E+08	3.6E+08	2.7E+08	3.6E+08	2.7E+08
12:10	5:10	3.3E+08	2.6E+08	3.3E+08	2.6E+08	3.3E+08	2.6E+08	3.3E+08	2.6E+08
12:15	5:15	3.1E+08	2.4E+08	3.1E+08	2.4E+08	3.1E+08	2.4E+08	3.1E+08	2.4E+08
12:20	5:20	2.9E+08	2.3E+08	2.9E+08	2.3E+08	2.9E+08	2.3E+08	2.9E+08	2.3E+08
12:25	5:25	2.8E+08	2.1E+08	2.8E+08	2.1E+08	2.8E+08	2.1E+08	2.8E+08	2.1E+08
12:30	5:30	2.6E+08	2.0E+08	2.6E+08	2.0E+08	2.6E+08	2.0E+08	2.6E+08	2.0E+08

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 52 Area PCM Alarm Yes/No	Corridor 52 PC Iss/Cnt Rm Area 26		Corridor 26 East End Area 27		Corridor 26 Area 27 PING				PAL Door Area 28	
			Open	Closed	Open	Closed	Alert High	470 1390 cpm	360 970 cpm	1210 3013 cpm	Open	Closed
7:00	0:00	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	< 0.1	< 0.1
7:05	0:05	No	< 0.1	< 0.1	0	0	High	1.0E+07	1.0E+07	270	< 0.1	< 0.1
7:10	0:10	Yes	3	3	41	32	High	1.0E+07	1.0E+07	1.0E+07	4	3
7:15	0:15	Yes	20	15	197	151	High	1.0E+07	1.0E+07	1.0E+07	28	21
7:20	0:20	Yes	41	32	317	244	High	1.0E+07	1.0E+07	1.0E+07	55	42
7:25	0:25	Yes	53	41	325	250	High	1.0E+07	1.0E+07	1.0E+07	61	47
7:30	0:30	Yes	54	42	272	209	High	1.0E+07	1.0E+07	1.0E+07	53	41
7:35	0:35	Yes	49	37	209	161	High	1.0E+07	1.0E+07	1.0E+07	42	32
7:40	0:40	Yes	41	31	156	120	High	1.0E+07	1.0E+07	7.6E+06	31	24
7:45	0:45	Yes	33	25	115	89	High	8.3E+06	5.9E+06	1.0E+06	23	18
7:50	0:50	Yes	26	20	86	66	High	6.7E+06	7.6E+05	1.4E+05	17	13
7:55	0:55	Yes	20	15	65	50	High	5.0E+06	99,427	18,204	13	10
8:00	1:00	Yes	16	12	50	39	High	3.3E+06	13,178	2,675	10	8
8:05	1:05	Yes	12	9	39	30	High	1.7E+06	1,840	596	8	6
8:10	1:10	Yes	10	7	31	24	High	1,390	334	314	6	5
8:15	1:15	Yes	8	6	24	19	High	1,390	132	276	5	4
8:20	1:20	Yes	6	5	20	15	High	1,390	104	271	4	3
8:25	1:25	Yes	5	4	16	12	High	1,390	101	270	3	2
8:30	1:30	Yes	4	3	13	10	High	1,390	100	270	3	2
8:35	1:35	Yes	3	2	10	8	High	1,390	100	270	2	2
8:40	1:40	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	< 0.1	< 0.1
8:45	1:45	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
8:50	1:50	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
8:55	1:55	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:00	2:00	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:05	2:05	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:10	2:10	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:15	2:15	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:20	2:20	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:25	2:25	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	0
9:30	2:30	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	< 0.1
9:35	2:35	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	< 0.1
9:40	2:40	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	0	< 0.1
9:45	2:45	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	< 0.1	< 0.1
9:50	2:50	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	< 0.1	< 0.1
9:55	2:55	No	< 0.1	< 0.1	< 0.1	< 0.1		40	100	270	< 0.1	< 0.1



In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 52 Area PCM Alarm Yes/No	Corridor 52 PC Iss/Cnt Rm Area 26		Corridor 26 East End Area 27		Corridor 26 Area 27 PING				PAL Door Area 28	
			Open	Closed	Open	Closed	Alert High	470 1390 cpm	360 970 cpm	1210 3013 cpm	Open	Closed
10:00	3:00	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:05	3:05	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:10	3:10	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:15	3:15	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:20	3:20	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:25	3:25	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:30	3:30	No	<0.1	<0.1	<0.1	<0.1		40	100	270	<0.1	<0.1
10:35	3:35	No	<0.1	<0.1	<0.1	<0.1		40	100	270	1	0
10:40	3:40	No	<0.1	<0.1	<0.1	<0.1		40	100	270	7	5
10:45	3:45	No	<0.1	<0.1	<0.1	<0.1		40	100	270	14	11
10:50	3:50	No	<0.1	<0.1	<0.1	<0.1		40	100	270	19	15
10:55	3:55	Yes	9,214	7,088	1.3E+05	1.0E+05	High	1.0E+07	1.0E+07	1.0E+07	5,282	4,063
11:00	4:00	Yes	1.5E+05	1.1E+05	1.6E+06	1.2E+06	High	1.0E+07	1.0E+07	1.0E+07	2.0E+05	1.6E+05
11:05	4:05	Yes	4.2E+05	3.3E+05	3.6E+06	2.8E+06	High	1.0E+07	1.0E+07	1.0E+07	5.7E+05	4.4E+05
11:10	4:10	Yes	7.3E+05	5.6E+05	5.2E+06	4.0E+06	High	1.0E+07	1.0E+07	1.0E+07	9.0E+05	7.0E+05
11:15	4:15	Yes	9.0E+05	6.9E+05	5.3E+06	4.1E+06	High	1.0E+07	1.0E+07	1.0E+07	1.0E+06	7.7E+05
11:20	4:20	Yes	9.2E+05	7.0E+05	4.5E+06	3.5E+06	High	1.0E+07	1.0E+07	1.0E+07	8.9E+05	6.8E+05
11:25	4:25	Yes	8.3E+05	6.4E+05	3.6E+06	2.8E+06	High	1.0E+07	1.0E+07	1.0E+07	7.1E+05	5.5E+05
11:30	4:30	Yes	7.1E+05	5.4E+05	2.8E+06	2.1E+06	High	1.0E+07	1.0E+07	1.0E+07	5.6E+05	4.3E+05
11:35	4:35	Yes	5.9E+05	4.5E+05	2.2E+06	1.7E+06	High	1.0E+07	1.0E+07	1.0E+07	4.3E+05	3.3E+05
11:40	4:40	Yes	4.8E+05	3.7E+05	1.7E+06	1.3E+06	High	1.0E+07	1.0E+07	1.0E+07	3.3E+05	2.6E+05
11:45	4:45	Yes	3.8E+05	2.9E+05	1.3E+06	1.0E+06	High	1.0E+07	1.0E+07	1.0E+07	2.6E+05	2.0E+05
11:50	4:50	Yes	3.1E+05	2.4E+05	1.0E+06	8.0E+05	High	1.0E+07	1.0E+07	1.0E+07	2.1E+05	1.6E+05
11:55	4:55	Yes	2.5E+05	1.9E+05	8.2E+05	6.3E+05	High	1.0E+07	1.0E+07	1.0E+07	1.6E+05	1.3E+05
12:00	5:00	Yes	2.0E+05	1.5E+05	6.6E+05	5.1E+05	High	1.0E+07	5.1E+06	6.3E+06	1.3E+05	1.0E+05
12:05	5:05	Yes	1.6E+05	1.2E+05	5.3E+05	4.1E+05	High	1.0E+07	6.9E+05	8.7E+05	1.0E+05	80,639
12:10	5:10	Yes	1.3E+05	99,078	4.2E+05	3.3E+05	High	1.0E+07	94,558	1.2E+05	84,335	64,873
12:15	5:15	Yes	1.0E+05	80,003	3.4E+05	2.6E+05	High	1.0E+07	13,060	16,840	68,044	52,342
12:20	5:20	Yes	84,094	64,688	2.8E+05	2.1E+05	High	1.0E+07	1,882	2,564	55,027	42,328
12:25	5:25	Yes	68,074	52,365	2.2E+05	1.7E+05	High	1.0E+07	345	588	44,581	34,293
12:30	5:30	Yes	55,159	42,430	1.8E+05	1.4E+05	High	1.0E+07	134	314	36,171	27,824

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 26						Corridor 26					
		Mech.Pent. Area 29		Sample Room Area 30		Mid-Section Area 31		Bast Area Area 32		Area 32 PING			
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Alert High	470 1390	360 970	1210 3013
7:00	0:00	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
7:05	0:05	3	3	<0.1	<0.1	21	16	20	16	High	1.0E+07	1.0E+07	1.0E+07
7:10	0:10	3	3	2	2	714	549	639	492	High	1.0E+07	1.0E+07	1.0E+07
7:15	0:15	3	3	12	9	1,716	1,320	1,515	1,166	High	1.0E+07	1.0E+07	1.0E+07
7:20	0:20	3	3	20	16	1,834	1,411	1,666	1,281	High	1.0E+07	1.0E+07	1.0E+07
7:25	0:25	3	3	21	16	1,485	1,142	1,432	1,102	High	1.0E+07	1.0E+07	1.0E+07
7:30	0:30	3	3	18	14	1,097	844	1,141	877	High	1.0E+07	1.0E+07	1.0E+07
7:35	0:35	3	3	14	11	793	610	890	685	High	1.0E+07	1.0E+07	1.0E+07
7:40	0:40	3	3	11	8	575	442	693	533	High	1.0E+07	1.0E+07	1.0E+07
7:45	0:45	3	3	8	6	424	326	542	417	High	1.0E+07	1.0E+07	3.4E+06
7:50	0:50	3	3	6	4	318	245	426	328	High	8.3E+06	2.7E+06	4.8E+05
7:55	0:55	3	3	4	3	243	187	338	260	High	6.7E+06	3.6E+05	67,654
8:00	1:00	3	3	3	3	189	145	269	207	High	5.0E+06	50,075	9,984
8:05	1:05	3	3	3	2	148	114	215	166	High	3.3E+06	6,967	1,914
8:10	1:10	3	3	2	2	117	90	173	133	High	1.7E+06	1,037	784
8:15	1:15	3	3	2	1	94	72	140	107	High	1,390	221	626
8:20	1:20	3	3	1	1	75	58	113	87	High	1,390	108	604
8:25	1:25	3	3	1	1	61	47	91	70	High	1,390	92	601
8:30	1:30	3	3	1	1	49	38	74	57	High	1,390	90	600
8:35	1:35	3	3	1	1	40	31	60	46	High	1,390	90	600
8:40	1:40	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
8:45	1:45	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
8:50	1:50	3	3	0	0	<0.1	<0.1	<0.1	<0.1		45	90	600
8:55	1:55	3	3	0	0	<0.1	<0.1	<0.1	<0.1		45	90	600
9:00	2:00	3	3	0	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:05	2:05	3	3	0	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:10	2:10	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:15	2:15	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:20	2:20	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:25	2:25	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:30	2:30	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:35	2:35	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:40	2:40	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:45	2:45	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:50	2:50	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600
9:55	2:55	3	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		45	90	600

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 26								Corridor 26			
		Mech.Pent. Area 29		Sample Room Area 30		Mid-Section Area 31		Bast Area Area 32		Area 32 PING			
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Alert High	470 1390	360 970	1210 3013
10:00	3:00	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:05	3:05	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:10	3:10	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:15	3:15	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:20	3:20	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:25	3:25	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:30	3:30	3	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:35	3:35	4	3	0	0	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:40	3:40	7	5	3	3	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:45	3:45	10	8	7	5	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:50	3:50	13	10	10	7	< 0.1	< 0.1	< 0.1	< 0.1		45	90	600
10:55	3:55	15	11	7,810	6,008	4.1E+06	3.2E+06	3.7E+06	2.9E+06	High	1.0E+07	1.0E+07	1.0E+07
11:00	4:00	16	12	95,345	73,342	1.6E+07	1.2E+07	1.4E+07	1.1E+07	High	1.0E+07	1.0E+07	1.0E+07
11:05	4:05	17	13	2.2E+05	1.7E+05	2.5E+07	2.0E+07	2.3E+07	1.8E+07	High	1.0E+07	1.0E+07	1.0E+07
11:10	4:10	17	13	3.3E+05	2.5E+05	2.8E+07	2.2E+07	2.6E+07	2.0E+07	High	1.0E+07	1.0E+07	1.0E+07
11:15	4:15	18	14	3.4E+05	2.7E+05	2.4E+07	1.8E+07	2.3E+07	1.8E+07	High	1.0E+07	1.0E+07	1.0E+07
11:20	4:20	18	14	3.0E+05	2.3E+05	1.8E+07	1.4E+07	1.9E+07	1.5E+07	High	1.0E+07	1.0E+07	1.0E+07
11:25	4:25	18	13	2.4E+05	1.8E+05	1.4E+07	1.1E+07	1.6E+07	1.2E+07	High	1.0E+07	1.0E+07	1.0E+07
11:30	4:30	17	13	1.9E+05	1.4E+05	1.0E+07	8.1E+06	1.3E+07	9.7E+06	High	1.0E+07	1.0E+07	1.0E+07
11:35	4:35	17	13	1.4E+05	1.1E+05	8.1E+06	6.2E+06	1.0E+07	7.9E+06	High	1.0E+07	1.0E+07	1.0E+07
11:40	4:40	16	13	1.1E+05	86,195	6.3E+06	4.9E+06	8.3E+06	6.4E+06	High	1.0E+07	1.0E+07	1.0E+07
11:45	4:45	16	12	87,688	67,453	5.0E+06	3.8E+06	6.8E+06	5.2E+06	High	1.0E+07	1.0E+07	1.0E+07
11:50	4:50	15	12	69,123	53,171	3.9E+06	3.0E+06	5.5E+06	4.2E+06	High	1.0E+07	1.0E+07	1.0E+07
11:55	4:55	15	11	54,849	42,192	3.1E+06	2.4E+06	4.5E+06	3.4E+06	High	1.0E+07	1.0E+07	1.0E+07
12:00	5:00	14	11	43,768	33,668	2.5E+06	1.9E+06	3.6E+06	2.8E+06	High	1.0E+07	1.0E+07	1.0E+07
12:05	5:05	13	10	35,086	26,989	2.0E+06	1.6E+06	3.0E+06	2.3E+06	High	1.0E+07	2.8E+06	3.6E+06
12:10	5:10	13	10	28,229	21,715	1.6E+06	1.3E+06	2.4E+06	1.9E+06	High	1.0E+07	3.9E+05	5.1E+05
12:15	5:15	12	9	22,779	17,522	1.3E+06	1.0E+06	2.0E+06	1.5E+06	High	1.0E+07	54,148	71,131
12:20	5:20	12	9	18,424	14,172	1.1E+06	8.2E+05	1.6E+06	1.2E+06	High	1.0E+07	7,590	10,452
12:25	5:25	11	9	14,928	11,483	8.7E+05	6.7E+05	1.3E+06	1.0E+06	High	1.0E+07	1,130	1,976
12:30	5:30	11	8	12,113	9,318	7.0E+05	5.4E+05	1.1E+06	8.2E+05	High	1.0E+07	234	792

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 26								Rad Waste Building					
		VCT Room Area 33		Room 5 Area 34		New Fuel Rm Area 35		RR Siding Area 36		Ground Floor Area 64		Mezzanine Area 65		Area 64 PCM Alarm	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed		
7:00	0:00	18	14	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
7:05	0:05	18	14	130	100	0	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
7:10	0:10	38	29	130	100	72	55	27	21	< 0.1	< 0.1	< 0.1	< 0.1		
7:15	0:15	142	109	130	100	343	264	197	152	< 0.1	< 0.1	< 0.1	< 0.1		
7:20	0:20	190	146	130	100	589	453	421	323	< 0.1	< 0.1	< 0.1	< 0.1		
7:25	0:25	177	136	130	100	682	524	548	422	< 0.1	< 0.1	< 0.1	< 0.1		
7:30	0:30	145	111	130	100	664	511	572	440	< 0.1	< 0.1	< 0.1	< 0.1		
7:35	0:35	114	88	130	100	596	458	534	411	< 0.1	< 0.1	< 0.1	< 0.1		
7:40	0:40	89	69	130	100	510	393	470	361	< 0.1	< 0.1	< 0.1	< 0.1		
7:45	0:45	70	54	130	100	426	328	399	307	< 0.1	< 0.1	< 0.1	< 0.1		
7:50	0:50	55	42	130	100	351	270	332	255	< 0.1	< 0.1	< 0.1	< 0.1		
7:55	0:55	43	33	130	100	287	221	273	210	< 0.1	< 0.1	< 0.1	< 0.1		
8:00	1:00	35	27	130	100	234	180	223	172	< 0.1	< 0.1	< 0.1	< 0.1		
8:05	1:05	28	21	130	100	190	146	182	140	< 0.1	< 0.1	< 0.1	< 0.1		
8:10	1:10	22	17	130	100	154	118	148	114	< 0.1	< 0.1	< 0.1	< 0.1		
8:15	1:15	18	14	130	100	125	96	120	93	< 0.1	< 0.1	< 0.1	< 0.1		
8:20	1:20	15	11	130	100	102	78	98	75	< 0.1	< 0.1	< 0.1	< 0.1		
8:25	1:25	12	9	130	100	83	64	80	61	< 0.1	< 0.1	< 0.1	< 0.1		
8:30	1:30	10	8	130	100	67	52	65	50	< 0.1	< 0.1	< 0.1	< 0.1		
8:35	1:35	10	8	130	100	55	42	53	41	< 0.1	< 0.1	< 0.1	< 0.1		
8:40	1:40	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
8:45	1:45	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
8:50	1:50	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
8:55	1:55	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:00	2:00	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:05	2:05	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:10	2:10	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:15	2:15	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:20	2:20	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:25	2:25	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:30	2:30	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:35	2:35	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:40	2:40	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:45	2:45	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:50	2:50	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
9:55	2:55	10	8	130	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		

In-Plant Radiological Data - Dose Rates (mR/hr)

		Corridor 26								Rad Waste Building						
Real Time	Drill Time	VCT Room Area 33		Room 5 Area 34		New Fuel Rm Area 35		RR Siding Area 36		Ground Floor Area 64		Mezzanine Area 65		Area 64 PCM Alarm		
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed			
10:00	3:00	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:05	3:05	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:10	3:10	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:15	3:15	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:20	3:20	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:25	3:25	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:30	3:30	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:35	3:35	10	8	130	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:40	3:40	10	8	133	103	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:45	3:45	10	8	137	105	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:50	3:50	10	8	140	107	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
10:55	3:55	1.5E+05	1.1E+05	7,590	5,838	2.4E+05	1.8E+05	45,784	35,219	<0.1	<0.1	<0.1	<0.1			
11:00	4:00	1.2E+06	9.3E+05	90,617	69,706	2.7E+06	2.1E+06	1.4E+06	1.1E+06	<0.1	<0.1	<0.1	<0.1			
11:05	4:05	2.3E+06	1.8E+06	2.1E+05	1.6E+05	6.5E+06	5.0E+06	4.3E+06	3.3E+06	<0.1	<0.1	<0.1	<0.1			
11:10	4:10	3.0E+06	2.3E+06	3.0E+05	2.3E+05	1.0E+07	7.7E+06	7.5E+06	5.7E+06	<0.1	<0.1	<0.1	<0.1			
11:15	4:15	2.9E+06	2.2E+06	3.1E+05	2.4E+05	1.2E+07	8.9E+06	9.5E+06	7.3E+06	<0.1	<0.1	<0.1	<0.1			
11:20	4:20	2.4E+06	1.9E+06	2.7E+05	2.1E+05	1.1E+07	8.8E+06	1.0E+07	7.7E+06	<0.1	<0.1	<0.1	<0.1			
11:25	4:25	2.0E+06	1.5E+06	2.1E+05	1.6E+05	1.0E+07	8.1E+06	9.5E+06	7.3E+06	<0.1	<0.1	<0.1	<0.1			
11:30	4:30	1.6E+06	1.2E+06	1.6E+05	1.3E+05	9.2E+06	7.1E+06	8.5E+06	6.5E+06	<0.1	<0.1	<0.1	<0.1			
11:35	4:35	1.3E+06	1.0E+06	1.3E+05	97,465	7.9E+06	6.1E+06	7.4E+06	5.7E+06	<0.1	<0.1	<0.1	<0.1			
11:40	4:40	1.1E+06	8.2E+05	98,400	75,692	6.7E+06	5.2E+06	6.3E+06	4.9E+06	<0.1	<0.1	<0.1	<0.1			
11:45	4:45	8.7E+05	6.7E+05	77,008	59,237	5.6E+06	4.3E+06	5.3E+06	4.1E+06	<0.1	<0.1	<0.1	<0.1			
11:50	4:50	7.0E+05	5.4E+05	60,729	46,714	4.7E+06	3.6E+06	4.4E+06	3.4E+06	<0.1	<0.1	<0.1	<0.1			
11:55	4:55	5.7E+05	4.4E+05	48,212	37,087	3.9E+06	3.0E+06	3.7E+06	2.8E+06	<0.1	<0.1	<0.1	<0.1			
12:00	5:00	4.7E+05	3.6E+05	38,490	29,608	3.2E+06	2.4E+06	3.1E+06	2.3E+06	<0.1	<0.1	<0.1	<0.1			
12:05	5:05	3.8E+05	2.9E+05	30,867	23,744	2.6E+06	2.0E+06	2.5E+06	1.9E+06	<0.1	<0.1	<0.1	<0.1			
12:10	5:10	3.1E+05	2.4E+05	24,843	19,110	2.1E+06	1.7E+06	2.1E+06	1.6E+06	<0.1	<0.1	<0.1	<0.1			
12:15	5:15	2.5E+05	1.9E+05	20,052	15,425	1.8E+06	1.4E+06	1.7E+06	1.3E+06	<0.1	<0.1	<0.1	<0.1			
12:20	5:20	2.1E+05	1.6E+05	16,222	12,478	1.4E+06	1.1E+06	1.4E+06	1.1E+06	<0.1	<0.1	<0.1	<0.1			
12:25	5:25	1.7E+05	1.3E+05	13,146	10,112	1.2E+06	9.1E+05	1.1E+06	8.7E+05	<0.1	<0.1	<0.1	<0.1			
12:30	5:30	1.4E+05	1.1E+05	10,669	8,207	9.6E+05	7.4E+05	9.3E+05	7.2E+05	<0.1	<0.1	<0.1	<0.1			

In-Plant Radiological Data - Dose Rates (mR/hr)

		Corridor 4											
Real Time	Drill Time	WGDT Vaults Area 7		East End Area 8		Valve Room Area 9		SDC Ht Exchanger Area 10		Gas Comp.Rm Area 11		AI-100 Area Area 12	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed
7:00	0:00	< 0.1	< 0.1	< 0.1	< 0.1	117	90	72	56	< 0.1	< 0.1	< 0.1	< 0.1
7:05	0:05	< 0.1	< 0.1	640	492	117	90	72	56	2	1	5,102	3,925
7:10	0:10	1	1	6,883	5,294	489	376	81	63	75	58	18,001	13,847
7:15	0:15	10	8	11,313	8,702	1,177	905	284	218	248	191	16,304	12,542
7:20	0:20	22	17	9,791	7,532	1,201	924	413	318	344	265	10,375	7,981
7:25	0:25	28	22	6,679	5,137	884	680	410	316	327	252	5,993	4,610
7:30	0:30	28	21	4,138	3,183	568	437	336	258	258	199	3,388	2,606
7:35	0:35	23	18	2,457	1,890	343	264	246	190	184	142	1,904	1,465
7:40	0:40	17	13	1,434	1,103	202	155	169	130	124	95	1,076	828
7:45	0:45	12	9	835	642	118	91	112	86	80	62	616	474
7:50	0:50	8	6	490	377	117	90	72	56	51	39	360	277
7:55	0:55	5	4	292	225	117	90	72	56	32	25	216	166
8:00	1:00	4	3	178	137	156	120	130	100	20	15	134	103
8:05	1:05	2	2	112	86	156	120	130	100	13	10	86	66
8:10	1:10	1	1	73	56	156	120	130	100	8	6	58	44
8:15	1:15	1	1	49	37	156	120	130	100	5	4	40	31
8:20	1:20	1	0	34	26	156	120	130	100	3	3	29	22
8:25	1:25	0	0	24	19	156	120	130	100	2	2	21	16
8:30	1:30	0	0	18	14	156	120	130	100	2	1	16	12
8:35	1:35	0	0	13	10	156	120	130	100	1	1	12	10
8:40	1:40	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
8:45	1:45	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
8:50	1:50	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
8:55	1:55	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:00	2:00	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:05	2:05	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:10	2:10	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:15	2:15	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:20	2:20	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:25	2:25	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:30	2:30	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:35	2:35	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:40	2:40	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:45	2:45	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:50	2:50	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
9:55	2:55	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 4											
		WGDT Vaults Area 7		East End Area 8		Valve Room Area 9		SDC Ht Exchanger Area 10		Gas Comp.Rm Area 11		AI-100 Area Area 12	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed
10:00	3:00	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:05	3:05	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:10	3:10	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:15	3:15	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:20	3:20	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:25	3:25	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:30	3:30	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:35	3:35	< 0.1	< 0.1	< 0.1	< 0.1	156	120	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:40	3:40	< 0.1	< 0.1	< 0.1	< 0.1	159	123	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:45	3:45	< 0.1	< 0.1	< 0.1	< 0.1	163	125	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:50	3:50	< 0.1	< 0.1	< 0.1	< 0.1	166	127	130	100	< 0.1	< 0.1	< 0.1	< 0.1
10:55	3:55	< 0.1	< 0.1	8.0E+05	6.1E+05	13,798	10,614	1,485	1,142	1,434	1,103	6.8E+06	5.2E+06
11:00	4:00	2,168	1,667	1.1E+07	8.6E+06	7.5E+05	5.8E+05	1.2E+05	95,282	1.1E+05	87,657	3.2E+07	2.5E+07
11:05	4:05	18,373	14,133	2.9E+07	2.3E+07	2.6E+06	2.0E+06	5.8E+05	4.5E+05	5.1E+05	3.9E+05	5.9E+07	4.6E+07
11:10	4:10	56,159	43,199	4.7E+07	3.6E+07	4.8E+06	3.7E+06	1.3E+06	1.0E+06	1.1E+06	8.6E+05	7.6E+07	5.8E+07
11:15	4:15	1.1E+05	83,210	5.5E+07	4.2E+07	6.2E+06	4.8E+06	2.0E+06	1.6E+06	1.7E+06	1.3E+06	7.3E+07	5.6E+07
11:20	4:20	1.6E+05	1.2E+05	5.2E+07	4.0E+07	6.3E+06	4.8E+06	2.5E+06	1.9E+06	2.0E+06	1.5E+06	6.2E+07	4.8E+07
11:25	4:25	1.8E+05	1.4E+05	4.5E+07	3.5E+07	5.6E+06	4.3E+06	2.5E+06	2.0E+06	2.0E+06	1.6E+06	5.0E+07	3.8E+07
11:30	4:30	1.9E+05	1.4E+05	3.7E+07	2.8E+07	4.6E+06	3.6E+06	2.4E+06	1.8E+06	1.8E+06	1.4E+06	3.9E+07	3.0E+07
11:35	4:35	1.7E+05	1.3E+05	2.9E+07	2.2E+07	3.7E+06	2.8E+06	2.1E+06	1.6E+06	1.6E+06	1.2E+06	3.0E+07	2.3E+07
11:40	4:40	1.5E+05	1.2E+05	2.2E+07	1.7E+07	2.9E+06	2.2E+06	1.7E+06	1.3E+06	1.3E+06	1.0E+06	2.2E+07	1.7E+07
11:45	4:45	1.3E+05	98,671	1.7E+07	1.3E+07	2.2E+06	1.7E+06	1.4E+06	1.1E+06	1.0E+06	8.1E+05	1.7E+07	1.3E+07
11:50	4:50	1.0E+05	80,337	1.3E+07	9.9E+06	1.7E+06	1.3E+06	1.1E+06	8.5E+05	8.2E+05	6.3E+05	1.3E+07	9.7E+06
11:55	4:55	83,104	63,926	9.7E+06	7.5E+06	1.3E+06	9.7E+05	8.6E+05	6.6E+05	6.4E+05	4.9E+05	9.4E+06	7.3E+06
12:00	5:00	65,031	50,024	7.3E+06	5.6E+06	9.5E+05	7.3E+05	6.6E+05	5.1E+05	4.9E+05	3.8E+05	7.0E+06	5.4E+06
12:05	5:05	50,275	38,673	5.5E+06	4.2E+06	7.1E+05	5.5E+05	5.0E+05	3.9E+05	3.7E+05	2.9E+05	5.3E+06	4.1E+06
12:10	5:10	38,532	29,640	4.1E+06	3.2E+06	5.3E+05	4.1E+05	3.8E+05	2.9E+05	2.8E+05	2.2E+05	3.9E+06	3.0E+06
12:15	5:15	29,358	22,583	3.1E+06	2.4E+06	4.0E+05	3.1E+05	2.9E+05	2.2E+05	2.1E+05	1.6E+05	3.0E+06	2.3E+06
12:20	5:20	22,284	17,142	2.3E+06	1.8E+06	3.0E+05	2.3E+05	2.2E+05	1.7E+05	1.6E+05	1.2E+05	2.2E+06	1.7E+06
12:25	5:25	16,881	12,985	1.8E+06	1.3E+06	2.3E+05	1.8E+05	1.6E+05	1.3E+05	1.2E+05	93,729	1.7E+06	1.3E+06
12:30	5:30	12,780	9,831	1.3E+06	1.0E+06	1.7E+05	1.3E+05	1.2E+05	95,917	92,206	70,928	1.3E+06	9.9E+05

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 4													
		Room 13 Area 13		Room 12 Area 14		Monitor Tks Area 15		Charging Pump Area 16		West End Area 17		Alert High	Area 17 PING		
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed		470 1390	360 970	1210 3013
7:00	0:00	73	56	< 0.1	< 0.1	3	2	91	70	< 0.1	< 0.1		35	60	400
7:05	0:05	1.9E+05	1.5E+05	40	31	43	33	91	70	599	461	High	1.0E+07	1.0E+07	1.0E+07
7:10	0:10	2.8E+05	2.2E+05	469	361	540	415	534	411	5,219	4,014	High	1.0E+07	1.0E+07	1.0E+07
7:15	0:15	1.3E+05	1.0E+05	847	651	1,056	812	1,100	846	7,290	5,608	High	1.0E+07	1.0E+07	1.0E+07
7:20	0:20	51,640	39,723	805	619	1,101	847	995	766	5,666	4,358	High	1.0E+07	1.0E+07	1.0E+07
7:25	0:25	21,228	16,329	595	458	894	688	681	523	3,635	2,796	High	1.0E+07	1.0E+07	1.0E+07
7:30	0:30	9,002	6,925	392	301	645	496	422	325	2,200	1,693	High	1.0E+07	1.0E+07	1.0E+07
7:35	0:35	3,904	3,003	243	187	435	335	254	195	1,313	1,010	High	1.0E+07	1.0E+07	1.0E+07
7:40	0:40	1,727	1,328	146	112	282	217	152	117	788	606	High	1.0E+07	1.0E+07	1.0E+07
7:45	0:45	779	599	86	66	179	138	93	71	483	372	High	1.0E+07	1.0E+07	3.1E+06
7:50	0:50	358	276	51	39	112	86	91	70	305	235	High	8.3E+06	3.5E+06	3.4E+05
7:55	0:55	169	130	30	23	69	53	91	70	200	154	High	6.7E+06	3.8E+05	39,253
8:00	1:00	104	80	18	14	43	33	65	50	136	104	High	5.0E+06	44,085	4,930
8:05	1:05	104	80	11	9	27	21	65	50	96	74	High	3.3E+06	5,269	946
8:10	1:10	104	80	7	5	17	13	65	50	70	54	High	1.7E+06	697	468
8:15	1:15	104	80	5	4	11	8	65	50	52	40	High	1,390	140	409
8:20	1:20	104	80	3	2	7	6	65	50	40	31	High	1,390	70	401
8:25	1:25	104	80	2	2	5	4	65	50	31	24	High	1,390	61	400
8:30	1:30	104	80	2	1	4	3	65	50	25	19	High	1,390	60	400
8:35	1:35	104	80	1	1	4	3	65	50	20	15		35	60	400
8:40	1:40	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
8:45	1:45	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
8:50	1:50	104	80	0	0	4	3	65	50	< 0.1	< 0.1		35	60	400
8:55	1:55	104	80	0	0	4	3	65	50	< 0.1	< 0.1		35	60	400
9:00	2:00	104	80	0	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:05	2:05	104	80	0	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:10	2:10	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:15	2:15	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:20	2:20	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:25	2:25	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:30	2:30	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:35	2:35	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:40	2:40	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:45	2:45	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:50	2:50	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
9:55	2:55	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400



In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Corridor 4													
		Room 13 Area 13		Room 12 Area 14		Monitor Tks Area 15		Charging Pump Area 16		West End Area 17		Alert High	Area 17 PING		
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed		470 1390	360 970	1210 3013
10:00	3:00	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:05	3:05	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:10	3:10	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:15	3:15	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:20	3:20	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:25	3:25	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:30	3:30	104	80	< 0.1	< 0.1	4	3	65	50	< 0.1	< 0.1		35	60	400
10:35	3:35	104	80	0	0	4	3	65	50	< 0.1	< 0.1		35	60	400
10:40	3:40	107	83	3	3	4	3	65	50	< 0.1	< 0.1		35	60	400
10:45	3:45	111	85	7	5	4	3	65	50	< 0.1	< 0.1		35	60	400
10:50	3:50	114	87	10	7	4	3	65	50	< 0.1	< 0.1		35	60	400
10:55	3:55	92,443	71,110	49,607	38,159	53,500	41,154	3.3E+06	2.5E+06	4.4E+07	3.4E+07	High	1.0E+07	1.0E+07	1.0E+07
11:00	4:00	1.4E+06	1.1E+06	7.5E+05	5.8E+05	8.6E+05	6.6E+05	1.1E+07	8.2E+06	9.3E+07	7.1E+07	High	1.0E+07	1.0E+07	1.0E+07
11:05	4:05	3.9E+06	3.0E+06	2.1E+06	1.6E+06	2.6E+06	2.0E+06	1.5E+07	1.2E+07	1.2E+08	9.0E+07	High	1.0E+07	1.0E+07	1.0E+07
11:10	4:10	6.5E+06	5.0E+06	3.5E+06	2.7E+06	4.5E+06	3.5E+06	1.5E+07	1.1E+07	9.7E+07	7.4E+07	High	1.0E+07	1.0E+07	1.0E+07
11:15	4:15	7.9E+06	6.1E+06	4.3E+06	3.3E+06	5.8E+06	4.5E+06	1.0E+07	8.0E+06	6.4E+07	4.9E+07	High	1.0E+07	1.0E+07	1.0E+07
11:20	4:20	7.9E+06	6.1E+06	4.3E+06	3.3E+06	6.2E+06	4.7E+06	6.7E+06	5.2E+06	4.1E+07	3.2E+07	High	1.0E+07	1.0E+07	1.0E+07
11:25	4:25	7.0E+06	5.4E+06	3.9E+06	3.0E+06	5.8E+06	4.5E+06	4.3E+06	3.3E+06	2.7E+07	2.0E+07	High	1.0E+07	1.0E+07	1.0E+07
11:30	4:30	5.8E+06	4.5E+06	3.2E+06	2.5E+06	5.0E+06	3.9E+06	2.8E+06	2.2E+06	1.7E+07	1.3E+07	High	1.0E+07	1.0E+07	1.0E+07
11:35	4:35	4.7E+06	3.6E+06	2.6E+06	2.0E+06	4.2E+06	3.2E+06	1.9E+06	1.4E+06	1.2E+07	8.9E+06	High	1.0E+07	1.0E+07	1.0E+07
11:40	4:40	3.6E+06	2.8E+06	2.0E+06	1.6E+06	3.4E+06	2.6E+06	1.3E+06	9.8E+05	7.9E+06	6.1E+06	High	1.0E+07	1.0E+07	1.0E+07
11:45	4:45	2.8E+06	2.1E+06	1.6E+06	1.2E+06	2.7E+06	2.0E+06	8.7E+05	6.7E+05	5.4E+06	4.2E+06	High	1.0E+07	1.0E+07	1.0E+07
11:50	4:50	2.1E+06	1.6E+06	1.2E+06	9.1E+05	2.1E+06	1.6E+06	6.1E+05	4.7E+05	3.8E+06	3.0E+06	High	1.0E+07	1.0E+07	1.0E+07
11:55	4:55	1.6E+06	1.2E+06	8.9E+05	6.9E+05	1.6E+06	1.2E+06	4.4E+05	3.4E+05	2.8E+06	2.1E+06	High	1.0E+07	1.0E+07	1.0E+07
12:00	5:00	1.2E+06	9.2E+05	6.7E+05	5.1E+05	1.2E+06	9.3E+05	3.2E+05	2.4E+05	2.0E+06	1.5E+06	High	1.0E+07	1.0E+07	1.0E+07
12:05	5:05	9.0E+05	6.9E+05	5.0E+05	3.9E+05	9.1E+05	7.0E+05	2.3E+05	1.8E+05	1.5E+06	1.1E+06	High	1.0E+07	2.4E+06	1.7E+06
12:10	5:10	6.7E+05	5.2E+05	3.8E+05	2.9E+05	6.9E+05	5.3E+05	1.7E+05	1.3E+05	1.1E+06	8.6E+05	High	1.0E+07	3.0E+05	2.1E+05
12:15	5:15	5.0E+05	3.9E+05	2.8E+05	2.2E+05	5.2E+05	4.0E+05	1.3E+05	1.0E+05	8.5E+05	6.6E+05	High	1.0E+07	38,569	27,970
12:20	5:20	3.8E+05	2.9E+05	2.1E+05	1.6E+05	3.9E+05	3.0E+05	1.0E+05	78,006	6.6E+05	5.0E+05	High	1.0E+07	5,061	4,005
12:25	5:25	2.9E+05	2.2E+05	1.6E+05	1.2E+05	3.0E+05	2.3E+05	78,530	60,408	5.1E+05	3.9E+05	High	1.0E+07	716	876
12:30	5:30	2.2E+05	1.7E+05	1.2E+05	93,401	2.2E+05	1.7E+05	61,332	47,178	4.0E+05	3.1E+05	High	1.0E+07	147	463

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Room 5 Area 18		Corridor 4 SWIRT Area 20		Room 24 Area 21		Spent Regen Room Area 1		971 Level SI Rm East Area 2		SI Rm West Area 3	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed
7:00	0:00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	110	85	8	7	11	9
7:05	0:05	2	2	<0.1	<0.1	<0.1	<0.1	110	85	8	7	11	9
7:10	0:10	86	66	<0.1	<0.1	<0.1	<0.1	110	85	8	7	11	9
7:15	0:15	256	197	<0.1	<0.1	0	0	110	85	8	7	11	9
7:20	0:20	330	254	<0.1	<0.1	1	1	110	85	8	7	11	9
7:25	0:25	300	231	<0.1	<0.1	1	1	110	85	8	7	11	9
7:30	0:30	231	178	<0.1	<0.1	2	1	110	85	8	7	11	9
7:35	0:35	162	125	<0.1	<0.1	2	2	110	85	8	7	11	9
7:40	0:40	109	84	<0.1	<0.1	2	2	110	85	8	7	11	9
7:45	0:45	71	55	<0.1	<0.1	3	2	110	85	8	7	11	9
7:50	0:50	46	35	<0.1	<0.1	2	2	110	85	8	7	11	9
7:55	0:55	30	23	<0.1	<0.1	2	2	110	85	8	7	11	9
8:00	1:00	19	15	<0.1	<0.1	2	2	20	15	9	7	8	6
8:05	1:05	13	10	<0.1	<0.1	2	2	20	15	9	7	8	6
8:10	1:10	9	7	<0.1	<0.1	2	1	20	15	9	7	8	6
8:15	1:15	6	5	<0.1	<0.1	2	1	20	15	9	7	8	6
8:20	1:20	5	4	<0.1	<0.1	2	1	20	15	9	7	8	6
8:25	1:25	3	3	<0.1	<0.1	1	1	20	15	9	7	8	6
8:30	1:30	3	2	<0.1	<0.1	1	1	20	15	9	7	8	6
8:35	1:35	2	2	<0.1	<0.1	1	1	20	15	9	7	8	6
8:40	1:40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
8:45	1:45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
8:50	1:50	0	0	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
8:55	1:55	0	0	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:00	2:00	0	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:05	2:05	0	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:10	2:10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:15	2:15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:20	2:20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:25	2:25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:30	2:30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:35	2:35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:40	2:40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:45	2:45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:50	2:50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
9:55	2:55	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Room 5		Corridor 4		Room 24		Spent Regen Room		971 Level		SI Rm West	
		Area 18		SWIRT		Area 21		Area 1		Area 2		Area 3	
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed
10:00	3:00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:05	3:05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:10	3:10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:15	3:15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:20	3:20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:25	3:25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:30	3:30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	15	9	7	8	6
10:35	3:35	0	0	<0.1	<0.1	<0.1	<0.1	20	16	9	7	8	6
10:40	3:40	3	3	<0.1	<0.1	<0.1	<0.1	23	18	12	10	8	6
10:45	3:45	7	5	<0.1	<0.1	<0.1	<0.1	27	21	16	12	8	6
10:50	3:50	10	7	<0.1	<0.1	<0.1	<0.1	29	23	19	14	8	6
10:55	3:55	4.4E+05	3.4E+05	<0.1	<0.1	17	13	8.6E+08	6.6E+08	21	16	8	6
11:00	4:00	2.2E+06	1.7E+06	<0.1	<0.1	1,357	1,043	1.2E+09	9.4E+08	22	17	8	6
11:05	4:05	4.1E+06	3.2E+06	<0.1	<0.1	6,311	4,855	1.3E+09	1.0E+09	23	18	8	6
11:10	4:10	5.2E+06	4.0E+06	<0.1	<0.1	14,969	11,515	7.6E+08	5.8E+08	23	18	8	6
11:15	4:15	4.8E+06	3.7E+06	<0.1	<0.1	25,412	19,547	4.4E+08	3.4E+08	24	18	8	6
11:20	4:20	3.7E+06	2.9E+06	<0.1	<0.1	34,777	26,752	2.6E+08	2.0E+08	24	18	8	6
11:25	4:25	2.7E+06	2.1E+06	<0.1	<0.1	41,752	32,117	1.5E+08	1.2E+08	23	18	8	6
11:30	4:30	1.9E+06	1.5E+06	<0.1	<0.1	46,133	35,487	9.1E+07	7.0E+07	23	18	8	6
11:35	4:35	1.3E+06	1.0E+06	<0.1	<0.1	48,202	37,079	5.5E+07	4.2E+07	23	17	8	6
11:40	4:40	9.0E+05	6.9E+05	<0.1	<0.1	48,407	37,236	3.3E+07	2.5E+07	22	17	8	6
11:45	4:45	6.2E+05	4.8E+05	<0.1	<0.1	47,209	36,315	2.0E+07	1.5E+07	22	17	8	6
11:50	4:50	4.3E+05	3.3E+05	<0.1	<0.1	45,022	34,632	1.2E+07	9.2E+06	21	16	8	6
11:55	4:55	3.0E+05	2.3E+05	<0.1	<0.1	42,189	32,453	7.3E+06	5.6E+06	20	16	8	6
12:00	5:00	2.1E+05	1.6E+05	<0.1	<0.1	38,979	29,984	4.4E+06	3.4E+06	20	15	8	6
12:05	5:05	1.5E+05	1.2E+05	<0.1	<0.1	35,601	27,385	2.7E+06	2.1E+06	19	15	8	6
12:10	5:10	1.1E+05	85,302	<0.1	<0.1	32,203	24,772	1.7E+06	1.3E+06	19	14	8	6
12:15	5:15	81,964	63,049	<0.1	<0.1	28,894	22,227	1.0E+06	8.1E+05	18	14	8	6
12:20	5:20	61,407	47,236	<0.1	<0.1	25,746	19,805	6.6E+05	5.1E+05	17	13	8	6
12:25	5:25	46,583	35,833	<0.1	<0.1	22,804	17,542	4.2E+05	3.2E+05	17	13	8	6
12:30	5:30	35,733	27,487	<0.1	<0.1	20,094	15,457	2.7E+05	2.1E+05	16	13	8	6

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Room 69													
		Room 71 Area 38		Rm-69 East Area 39		Rm-69 Stairway Area 40		Rm-69 West Area 41		SFP Area 42		Alert High	Area 40 PING (cpm)		
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed		470 1390	360 970	1210 3013
7:00	0:00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
7:05	0:05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	0	<0.1	<0.1	High	1.0E+07	1.0E+07	175
7:10	0:10	<0.1	<0.1	4	3	49	38	43	33	32	25	High	1.0E+07	1.0E+07	1.0E+07
7:15	0:15	2	2	47	36	308	237	204	157	245	188	High	1.0E+07	1.0E+07	1.0E+07
7:20	0:20	10	8	121	93	630	485	363	279	537	413	High	1.0E+07	1.0E+07	1.0E+07
7:25	0:25	23	18	175	135	812	624	436	335	711	547	High	1.0E+07	1.0E+07	1.0E+07
7:30	0:30	36	28	193	149	843	649	436	336	749	576	High	1.0E+07	1.0E+07	1.0E+07
7:35	0:35	45	35	186	143	786	604	398	306	702	540	High	1.0E+07	1.0E+07	1.0E+07
7:40	0:40	50	38	167	128	690	530	345	265	619	476	High	1.0E+07	1.0E+07	1.0E+07
7:45	0:45	50	39	144	110	585	450	290	223	526	405	High	8.3E+06	1.0E+07	4.4E+06
7:50	0:50	48	37	120	93	487	374	240	185	438	337	High	6.7E+06	4.1E+06	6.7E+05
7:55	0:55	45	34	100	77	400	308	197	152	361	278	High	5.0E+06	6.0E+05	98,079
8:00	1:00	40	31	82	63	327	252	161	124	295	227	High	3.3E+06	84,834	14,357
8:05	1:05	35	27	67	52	267	205	131	101	241	185	High	1.7E+06	12,054	2,209
8:10	1:10	30	23	55	42	217	167	106	82	196	151	High	1,390	1,791	465
8:15	1:15	26	20	44	34	176	136	86	66	159	123	High	1,390	353	216
8:20	1:20	22	17	36	28	143	110	70	54	130	100	High	1,390	152	181
8:25	1:25	19	14	30	23	117	90	57	44	105	81	High	1,390	125	176
8:30	1:30	16	12	24	19	95	73	46	36	86	66	High	1,390	121	175
8:35	1:35	13	10	20	15	77	60	38	29	70	54	High	1,390	120	175
8:40	1:40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
8:45	1:45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
8:50	1:50	0	0	0	0	0	0	<0.1	<0.1	<0.1	<0.1		50	120	175
8:55	1:55	0	0	0	0	0	0	<0.1	<0.1	<0.1	<0.1		50	120	175
9:00	2:00	0	<0.1	0	<0.1	0	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:05	2:05	0	<0.1	0	<0.1	0	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:10	2:10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:15	2:15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:20	2:20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:25	2:25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:30	2:30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:35	2:35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:40	2:40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:45	2:45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:50	2:50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
9:55	2:55	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175

In-Plant Radiological Data - Dose Rates (mR/hr)

Real Time	Drill Time	Room 69													
		Room 71 Area 38		Rm-69 East Area 39		Rm-69 Stairway Area 40		Rm-69 West Area 41		SFP Area 42		Alert High	Area 40 PING (cpm)		
		Open	Closed	Open	Closed	Open	Closed	Open	Closed	Open	Closed		470 1390	360 970	1210 3013
10:00	3:00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:05	3:05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:10	3:10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:15	3:15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:20	3:20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:25	3:25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:30	3:30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		50	120	175
10:35	3:35	0	0	0	0	0	0	<0.1	<0.1	<0.1	<0.1		50	120	175
10:40	3:40	3	3	3	3	3	3	<0.1	<0.1	<0.1	<0.1		50	120	175
10:45	3:45	7	5	7	5	7	5	<0.1	<0.1	<0.1	<0.1		50	120	175
10:50	3:50	10	7	10	7	10	7	<0.1	<0.1	<0.1	<0.1		50	120	175
10:55	3:55	11	9	3,451	2,654	1.3E+05	96,553	1.5E+05	1.2E+05	51,320	39,477	High	1.0E+07	1.0E+07	1.0E+07
11:00	4:00	10,074	7,749	3.1E+05	2.4E+05	2.3E+06	1.8E+06	1.6E+06	1.2E+06	1.8E+06	1.3E+06	High	1.0E+07	1.0E+07	1.0E+07
11:05	4:05	81,567	62,744	1.2E+06	8.9E+05	6.5E+06	5.0E+06	3.9E+06	3.0E+06	5.4E+06	4.2E+06	High	1.0E+07	1.0E+07	1.0E+07
11:10	4:10	2.4E+05	1.9E+05	2.2E+06	1.7E+06	1.1E+07	8.6E+06	6.3E+06	4.8E+06	9.6E+06	7.4E+06	High	1.0E+07	1.0E+07	1.0E+07
11:15	4:15	4.7E+05	3.6E+05	3.1E+06	2.4E+06	1.4E+07	1.1E+07	7.5E+06	5.7E+06	1.2E+07	9.5E+06	High	1.0E+07	1.0E+07	1.0E+07
11:20	4:20	6.9E+05	5.3E+05	3.4E+06	2.6E+06	1.5E+07	1.1E+07	7.6E+06	5.8E+06	1.3E+07	1.0E+07	High	1.0E+07	1.0E+07	1.0E+07
11:25	4:25	8.5E+05	6.5E+05	3.3E+06	2.5E+06	1.4E+07	1.1E+07	7.0E+06	5.4E+06	1.2E+07	9.6E+06	High	1.0E+07	1.0E+07	1.0E+07
11:30	4:30	9.4E+05	7.2E+05	3.0E+06	2.3E+06	1.2E+07	9.6E+06	6.3E+06	4.8E+06	1.1E+07	8.6E+06	High	1.0E+07	1.0E+07	1.0E+07
11:35	4:35	9.6E+05	7.4E+05	2.7E+06	2.1E+06	1.1E+07	8.4E+06	5.4E+06	4.2E+06	9.8E+06	7.5E+06	High	1.0E+07	1.0E+07	1.0E+07
11:40	4:40	9.3E+05	7.1E+05	2.3E+06	1.8E+06	9.3E+06	7.1E+06	4.6E+06	3.5E+06	8.4E+06	6.4E+06	High	1.0E+07	1.0E+07	1.0E+07
11:45	4:45	8.7E+05	6.7E+05	1.9E+06	1.5E+06	7.8E+06	6.0E+06	3.9E+06	3.0E+06	7.1E+06	5.4E+06	High	1.0E+07	1.0E+07	1.0E+07
11:50	4:50	7.9E+05	6.1E+05	1.6E+06	1.3E+06	6.5E+06	5.0E+06	3.2E+06	2.5E+06	5.9E+06	4.5E+06	High	1.0E+07	1.0E+07	1.0E+07
11:55	4:55	7.1E+05	5.4E+05	1.4E+06	1.0E+06	5.4E+06	4.2E+06	2.7E+06	2.0E+06	4.9E+06	3.8E+06	High	1.0E+07	1.0E+07	1.0E+07
12:00	5:00	6.2E+05	4.8E+05	1.1E+06	8.7E+05	4.5E+06	3.4E+06	2.2E+06	1.7E+06	4.0E+06	3.1E+06	High	1.0E+07	1.0E+07	1.0E+07
12:05	5:05	5.4E+05	4.1E+05	9.3E+05	7.1E+05	3.7E+06	2.8E+06	1.8E+06	1.4E+06	3.3E+06	2.6E+06	High	1.0E+07	4.9E+06	5.6E+06
12:10	5:10	4.6E+05	3.5E+05	7.6E+05	5.9E+05	3.0E+06	2.3E+06	1.5E+06	1.1E+06	2.7E+06	2.1E+06	High	1.0E+07	6.9E+05	8.0E+05
12:15	5:15	3.9E+05	3.0E+05	6.3E+05	4.8E+05	2.5E+06	1.9E+06	1.2E+06	9.4E+05	2.2E+06	1.7E+06	High	1.0E+07	96,641	1.1E+05
12:20	5:20	3.3E+05	2.5E+05	5.2E+05	4.0E+05	2.0E+06	1.6E+06	1.0E+06	7.7E+05	1.8E+06	1.4E+06	High	1.0E+07	13,602	15,965
12:25	5:25	2.8E+05	2.1E+05	4.2E+05	3.2E+05	1.7E+06	1.3E+06	8.2E+05	6.3E+05	1.5E+06	1.2E+06	High	1.0E+07	2,000	2,392
12:30	5:30	2.3E+05	1.8E+05	3.5E+05	2.7E+05	1.4E+06	1.1E+06	6.7E+05	5.1E+05	1.2E+06	9.5E+05	High	1.0E+07	382	486

Dose Cards

	Dose Based on Time in Minutes and Dose Rate in mr/hr									
Time (Min.)	100 mr/hr	200 mr/hr	300 mr/hr	400 mr/hr	500 mr/hr	600 mr/hr	700 mr/hr	800 mr/hr	900 mr/hr	1000 mr/hr
5	8 mr	17 mr	25 mr	33 mr	42 mr	50 mr	58 mr	67 mr	75 mr	83 mr
10	17 mr	33 mr	50 mr	67 mr	83 mr	100 mr	117 mr	133 mr	150 mr	167 mr
15	25 mr	50 mr	75 mr	100 mr	125 mr	150 mr	175 mr	200 mr	225 mr	250 mr
20	33 mr	67 mr	100 mr	133 mr	167 mr	200 mr	233 mr	267 mr	300 mr	333 mr
25	42 mr	83 mr	125 mr	167 mr	208 mr	250 mr	292 mr	333 mr	375 mr	417 mr
30	50 mr	100 mr	150 mr	200 mr	250 mr	300 mr	350 mr	400 mr	450 mr	500 mr
35	58 mr	117 mr	175 mr	233 mr	292 mr	350 mr	408 mr	467 mr	525 mr	583 mr
40	67 mr	133 mr	200 mr	267 mr	333 mr	400 mr	467 mr	533 mr	600 mr	667 mr
45	75 mr	150 mr	225 mr	300 mr	375 mr	450 mr	525 mr	600 mr	675 mr	750 mr
50	83 mr	167 mr	250 mr	333 mr	417 mr	500 mr	583 mr	667 mr	750 mr	833 mr
55	92 mr	183 mr	275 mr	367 mr	458 mr	550 mr	642 mr	733 mr	825 mr	917 mr
60	100 mr	200 mr	300 mr	400 mr	500 mr	600 mr	700 mr	800 mr	900 mr	1000 mr
Dose Card			Dose Card			Dose Card			Dose Card	
Name	mr		Name	mr		Name	mr		Name	mr
Dose Card			Dose Card			Dose Card			Dose Card	
Name	mr		Name	mr		Name	mr		Name	mr

Master Event Time Line and Message Summary						
MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
1	(-00:30)	6:30	Floor Instructor	Shift Crew	Conduct Shift turnover. Provide the Crew with POD, FC-214, and Nite Notes.	<p>Initial Conditions – This scenario will begin using Simulator Initial Condition Set #3. The plant is operating near the end of cycle at 100 percent power. Reactor Coolant System Boron Concentration is 66 ppm. The plant has been at 100 percent power for over 30 days. River Level is at 990' 0". River Temperature is at 72 °F. Outside ambient temperature is 82 °F. Diesel Generator #2 is tagged out for annual overhaul-inspection and Technical Specification 2.7(2) has been entered (Expires on June 30, 2003 at 0800 hours). FW-5A (Heater Drain Pump) is out of service for a motor overhaul and expected to be returned to service June 26, 2003.</p> <p>The Probabilistic Risk Assessment (PRA) Color is Orange due to the Diesel Generator #2 overhaul. The Core Damage Frequency is 31 hours to Orange. The Initiating Event is a spurious SGIS (Steam Generator Isolation Signal). Advise the Crew that Exercise Activities will begin at 07:00 hours.</p>
2	0:00	7:00	Simulator Operator	Simulator Event	This event will result in meeting the criteria of Alert EAL 8.3.	Commence Letdown System Leak. See Subdrill One for more details.
3	1:30	8:30	Security	Security Work Area & ACP	This information should be provide to Officers at the Site Access Control Point (ACP) also.	Small Isolated Thunderstorms are in the area of Fort Calhoun Station.
4	1:35	8:35	Security	Officers at ACP		Lightning has touched down in the Switchyard area.
5	1:35	8:35	Simulator Operator	Simulator Event	Diesel Generator #1 is the only source of AC power.	Initiate a loss of Offsite power (161KV and 345KV power). Fail DS-T1 in the Shut Position. See Subdrill Two for more details.
6	1:35	8:35	Simulator Operator	Simulator Event	This event will result in meeting the criteria of SAE EAL 1.11.	Initiate LBLOCA.

Master Event Time Line and Message Summary						
MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
7	1:35	8:35	Operator & OSC controllers	Inplant Operators / OSC EM Team(s)	DS-T1 cannot be allowed to be opened until 10:10 hours. Check with Senior Controller before allowing DS-T1 to be opened.	When attempts are made to open DS-T1, it will not open, see Subdrill Two for more details.
8	1:35	8:35	Floor Instructor	Crew	Upon investigation, report that it will take about 2-hours to get 161 KV power back and about 1-hour to get 345 KV power back. Note: The problem with DS-T1 will not get repaired before 10:10.	When asked, System Operations will dispatch a repair crew to the FCS Switchyard to investigate loss of 161 and 345 KV power. About 30 minutes later report to the Control Room that "161 KV should be made available at about 10:30 hours."
9	1:35	8:35	All controllers	All Participants in the Plant	Controller should constantly warn Participants that normal lighting is lost. Note: Lighting is still available in CARP Building, Radwaste Building, TSC, and Maintenance Shop. Senior Controller will advise the lead controllers when lighting is restored.	Lighting: Due to the loss of offsite power normal lighting is lost in the Auxiliary Building, Intake Structure, and Containment Building. Only emergency lighting is available in these areas.



Master Event Time Line and Message Summary						
MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
10	1:50	8:50	Harrison & Pottawattamie County	Harrison and Pottawattamie EOCs	Pictures in Subdrill Six may be provided to Participants to better describe the situation and location of the train derailment.	This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message". "A train hauling lumber and grain de-rails near the Harrison / Pottawattamie County Line. The train is hauling no hazardous materials. The location of the derailment is near a railroad crossing on State Hwy 362 near the intersection of US Hwy 183. There are no personnel injuries and neither the diesel engines nor the train cars are tipped over. The train is in the ditch, but upright. The power poles are broken on the east side of the tracks, but the power lines are intact and above ground level, there is no immediate electrical hazard." "This is a Drill Message."
11	1:50	8:50	WC EOC Controller	Washington County EOC	The bridge was actually under construction at the time the scenario was written. The construction may be completed at the time of the Exercise. Participants must assume the construction is still underway.	Commence Subdrill Five – Construction Accident on US Hwy 30 Bridge in Washington County. This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message". "The 911 Center has received a phone call from the construction crew working on a bridge just West of Kennard, NE on US Hwy 30. A boom on a crane has collapsed and fallen onto the detour blocking both East and West bound traffic lanes of US Hwy 30. Traffic is backing up in both directions. There are no personnel injuries." "This is a Drill Message."
12	2:34	9:34	Simulator Operator	Simulator Event		Initiate Fire Alarms in Diesel Generator Room Number 1.

Master Event Time Line and Message Summary

MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
13	2:34	9:34	Operator & OSC	Operators	See Subdrill Three.	Upon entering Diesel Generator Room #1, heavy blue smoke is observed coming from the generator. The engine is still running. The smoke will continue until the engine is stopped and then the amount of smoke produced will slow to a stop. See Subdrill Three.
14	2:35	9:35	Simulator Operator	Simulator Event	Results in Station Blackout. With LOCA in progress and no ECCS available; a judgment call of "A Sustained Loss of S/D Cooling" will lead to a General Emergency.	Trip the output breaker for Diesel Generator #1.
15	2:45	9:45	WC EOC Controller	Washington County EOC		This is a Drill Message. This is a Drill Message. No physical response to this drill message is to be taken. All actions are to be simulated, discussed, and communicated to other appropriate facilities using "This is a Drill Message". The construction crew has pushed the crane boom off of the detour using a front-end loader. US Hwy 30 is open in both east and west directions."
16	2:50	9:50	Simulator Operator	Simulator Event		Core uncover will occur at about this time.
17	3:05	10:05	Simulator Operator	Simulator Event		CETs start to rise rapidly over next 15 minutes, some will reach 2300 degrees F.
18	3:10	10:10	OSC	Repair Team		If reasonable actions have been taken, DS-T1 is opened.
19	3:10	10:10	Simulator Operator	To Crew		System Operations reports that 161KV is available to energize safeguards busses.
20	3:20	10:20	Simulator Operator	Simulator Event		Core Damage occurs
21	3:50	10:50	Simulator Operator	Simulator Event	Release begins.	Commence HPSI Suction Header Leak (See Subdill Four)

Master Event Time Line and Message Summary						
MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
22	5:00	12:00	Senior Controller	C&C		<p>This concludes the Plume Phase of the Exercise. OPPD Participants in the Simulator Control Room, TSC, OSC and EOF, secure from Exercise Scenario Activities, restore facilities, collect logs and records, and commence Facility Critiques.</p> <p>MRC and State / County EOC's will resume Exercise Activities at 1300 hours. Their Critiques will follow Phase 2 of the Exercise.</p>
23	5:00	12:00	Lead Evaluators	Participants		Direct all players, evaluators and controllers to sign attendance sheets, offer each a participant comment sheet, take notes from your facility critique and give them to your lead evaluator.
24	5:00	12:00	Lead Evaluators	Participants	Before the Facility Critique is completed, ensure the Key Participant, evaluators, and Lead controllers are aware of the Key participant Critique time and location.	<p>Wednesday, June 25, 2003</p> <p>Key Participant's Meeting</p> <p>Training Center Auditorium (0800-1000)</p> <p>EPCT03-07</p> <p>Key Participants: All Lead Evaluators &amp; Lead Controllers, CR Shift Mgr., and all others who have Manager, Director or Coordinator in their ERO Titles for the June 24, 2003 NRC Graded Exercise</p>

**EXERCISE MANUAL**

**FOR THE**  
**JUNE 24, 2003**  
**FORT CALHOUN STATION**

**EMERGENCY**  
**PREPAREDNESS EXERCISE**

**VOLUME 2**

**SCENARIO MANUAL**

**EXERCISE MANUAL**

**FOR THE**

**JUNE 24, 2003**

**FORT CALHOUN STATION**

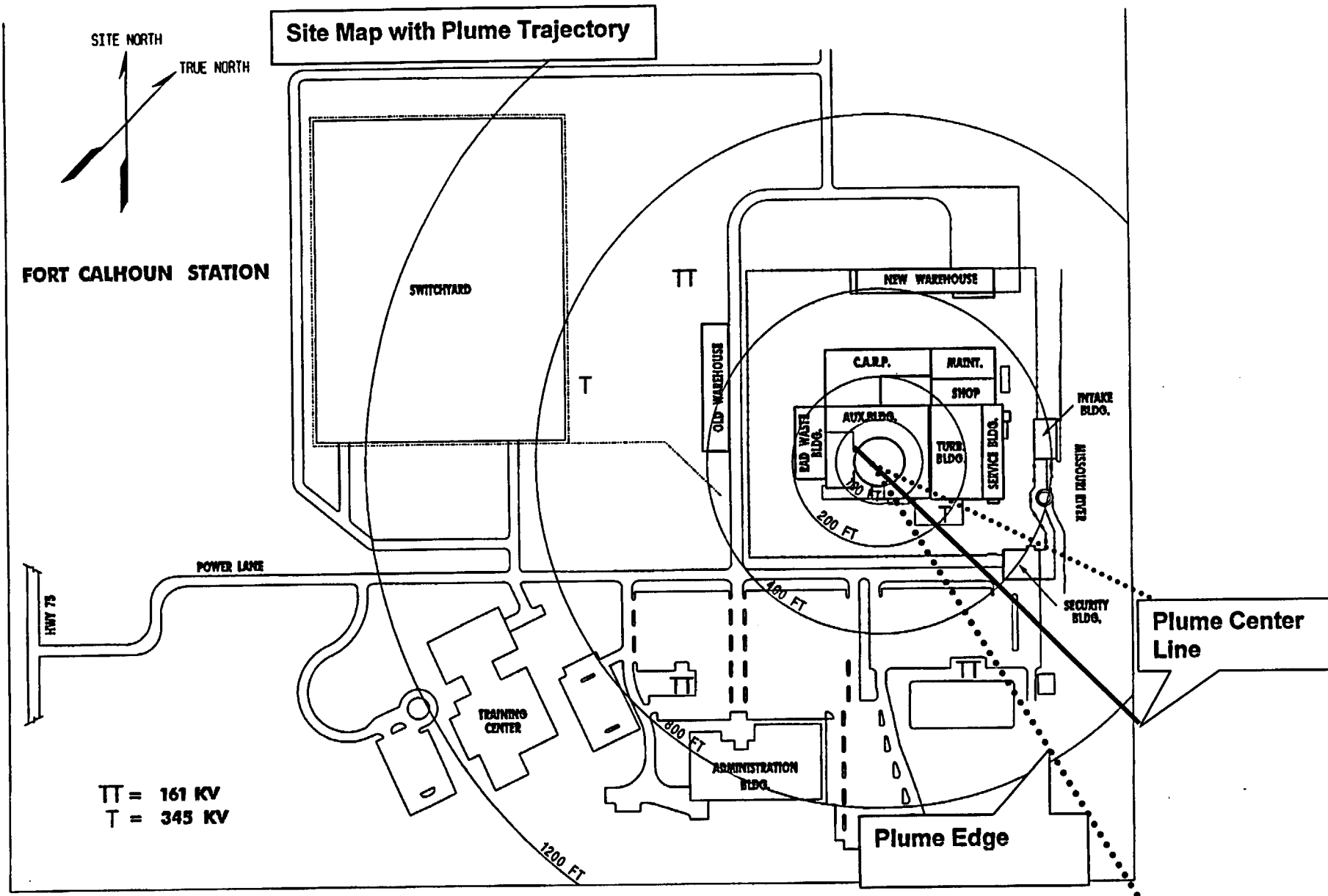
**EMERGENCY**

**PREPAREDNESS EXERCISE**

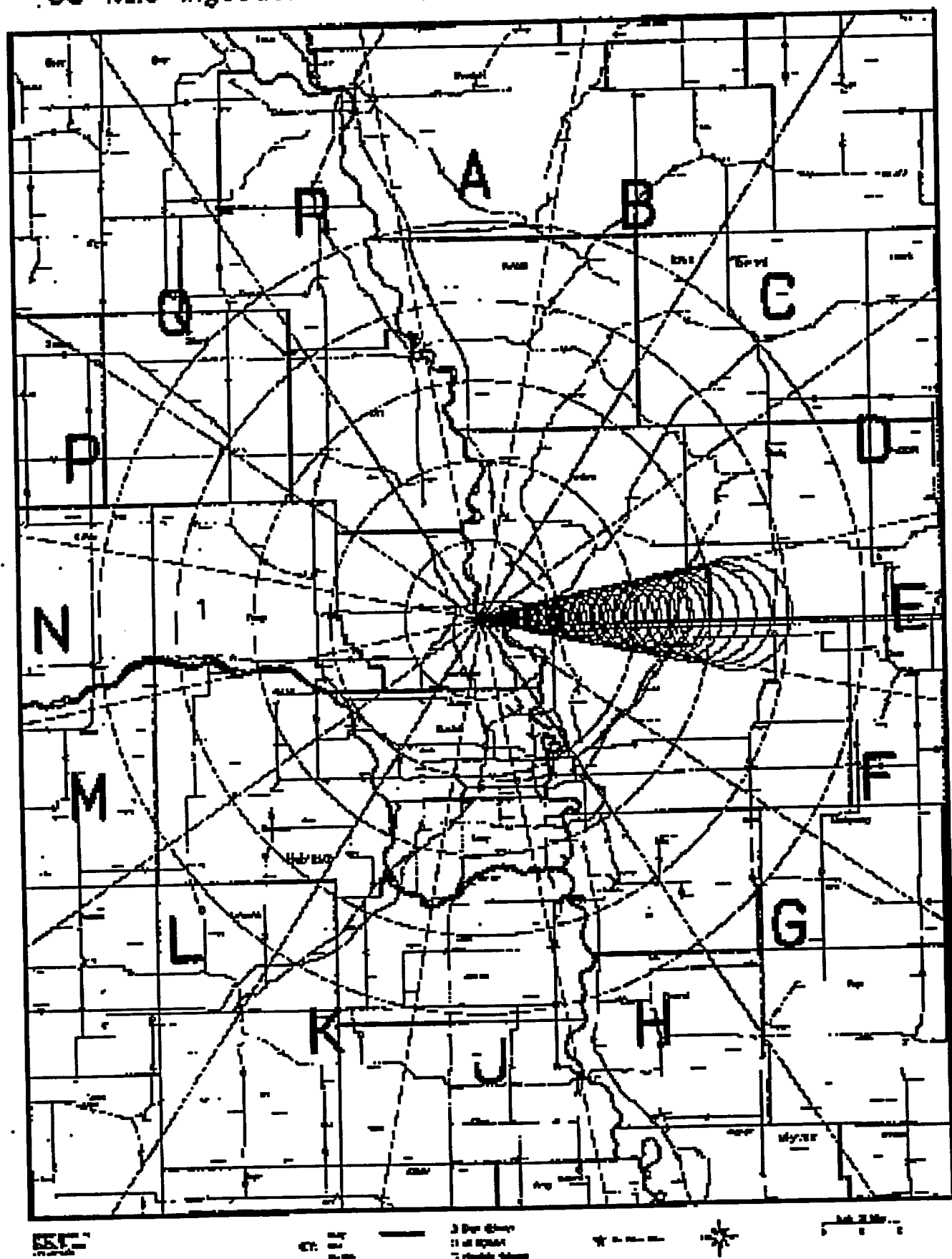
**VOLUME 3— FIELD TEAM**

**DATA**

**CAUTION:** This manual contains confidential exercise information that cannot be shared with exercise Participants prior to the 2003 Fort Calhoun Station Exercise.



# 50-Mile Ingestion Pathway Zone - Fort Calhoun Station



# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
07:15	06:15	3 inches/10 cm		30/1 Meter		5 Ft			Contact	SH-4	1.5 inch	Contact	SH-4	1.5 inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3		
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	5.04E+02	3.78E+02	1.01E+02	<25	<25
0.75	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	3.02E+02	2.27E+02	6.05E+01	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	3.49E+02	2.62E+02	6.98E+01	<25	<25
1	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	2.09E+02	1.57E+02	4.19E+01	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	1.34E+02	1.01E+02	2.68E+01	<25	<25
2	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	8.04E+01	6.03E+01	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	7.62E+01	5.71E+01	<25	<25	<25
3	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	4.57E+01	3.43E+01	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.



# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
07:15	00:15	3 inches/10 cm		3ft/1 Meter		5 Ft										
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	Contact ncps/ 10 ft3	SH-4 ncps/ 10 ft3	1.5 inch ncps/ 10 ft3	Contact ncps/ 10 ft3	SH-4 ncps/ 10 ft3	1.5 inch ncps/ 10 ft3	ncps per 100 cm2	mR/hr per smear
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
9	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
10	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
15	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
20	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
25	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
30	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
35	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
40	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
50	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
07:15	00:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
	Centerline	2.16E+01	1.66E+01	1	1.64E+06	1.67E+05	1.67E+05	3.46E+03	3.46E+03	<25
100 feet	Mid Centerline	1.30E+01	9.98E+00	<1	9.85E+05	1.00E+05	1.00E+05	2.07E+03	2.07E+03	<25
	Plume Edge	2.16E-01	1.66E-01	<1	1.64E+04	1.67E+03	1.67E+03	3.46E+01	3.46E+01	<25
	Centerline	6.41E+00	4.93E+00	<1	2.71E+05	2.76E+04	2.76E+04	5.70E+02	5.70E+02	<25
200 feet	Mid Centerline	3.85E+00	2.96E+00	<1	1.63E+05	1.65E+04	1.65E+04	3.42E+02	3.42E+02	<25
	Plume Edge	6.41E-02	as read	<1	2.71E+03	2.76E+02	2.76E+02	<25	<25	<25
	Centerline	2.69E+00	2.07E+00	<1	5.88E+04	5.98E+03	5.98E+03	1.24E+02	1.24E+02	<25
400 feet	Mid Centerline	1.61E+00	1.24E+00	<1	3.53E+04	3.59E+03	3.59E+03	7.43E+01	7.43E+01	<25
	Plume Edge	as read	as read	<1	5.88E+02	5.98E+01	5.98E+01	<25	<25	<25
	Centerline	1.41E+00	1.09E+00	<1	1.73E+04	1.76E+03	1.76E+03	3.65E+01	3.65E+01	<25
800 feet	Mid Centerline	8.49E-01	6.53E-01	<1	1.04E+04	1.06E+03	1.06E+03	<25	<25	<25
	Plume Edge	as read	as read	<1	1.73E+02	<25	<25	<25	<25	<25
	Centerline	1.08E+00	8.32E-01	<1	1.06E+04	1.08E+03	1.08E+03	<25	<25	<25
1200 feet	Mid Centerline	6.49E-01	4.99E-01	<1	6.36E+03	6.47E+02	6.47E+02	<25	<25	<25
	Plume Edge	as read	as read	<1	1.06E+02	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
07:15	00:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
	Centerline	1.73E+01	1.33E+01	<1	1.31E+06	1.34E+05	1.34E+05	2.77E+03	2.77E+03	<25
100 feet	Mid Centerline	1.04E+01	7.98E+00	<1	7.88E+05	8.02E+04	8.02E+04	1.66E+03	1.66E+03	<25
	Plume Edge	1.73E-01	1.33E-01	<1	1.31E+04	1.34E+03	1.34E+03	2.77E+01	2.77E+01	<25
	Centerline	5.13E+00	3.95E+00	<1	2.17E+05	2.21E+04	2.21E+04	4.56E+02	4.56E+02	<25
200 feet	Mid Centerline	3.08E+00	2.37E+00	<1	1.30E+05	1.32E+04	1.32E+04	2.74E+02	2.74E+02	<25
	Plume Edge	5.13E-02	as read	<1	2.17E+03	2.21E+02	2.21E+02	<25	<25	<25
	Centerline	2.15E+00	1.65E+00	<1	4.71E+04	4.79E+03	4.79E+03	9.91E+01	9.91E+01	<25
400 feet	Mid Centerline	1.29E+00	9.93E-01	<1	2.82E+04	2.87E+03	2.87E+03	5.94E+01	5.94E+01	<25
	Plume Edge	as read	as read	<1	4.71E+02	4.79E+01	4.79E+01	<25	<25	<25
	Centerline	1.13E+00	8.71E-01	<1	1.39E+04	1.41E+03	1.41E+03	2.92E+01	2.92E+01	<25
800 feet	Mid Centerline	6.79E-01	5.22E-01	<1	8.31E+03	8.46E+02	8.46E+02	<25	<25	<25
	Plume Edge	as read	as read	<1	1.39E+02	<25	<25	<25	<25	<25
	Centerline	8.65E-01	6.65E-01	<1	8.49E+03	8.63E+02	8.63E+02	<25	<25	<25
1200 feet	Mid Centerline	5.19E-01	3.99E-01	<1	5.09E+03	5.18E+02	5.18E+02	<25	<25	<25
	Plume Edge	as read	as read	<1	8.49E+01	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
07:15	00:15	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	5.15E-01	3.96E-01	4.66E-01	3.59E-01	4.64E-01	3.57E-01	<1	2.48E+02	2.52E+02	<25	<25
0.75	Mid Centerline	3.09E-01	2.38E-01	2.80E-01	2.15E-01	2.78E-01	2.14E-01	<1	1.49E+02	1.51E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	4.03E-01	3.10E-01	3.69E-01	2.84E-01	3.67E-01	2.83E-01	<1	1.71E+02	1.74E+02	<25	<25
1	Mid Centerline	2.42E-01	1.86E-01	2.22E-01	1.70E-01	2.20E-01	1.70E-01	<1	1.03E+02	1.05E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	2.00E-01	1.54E-01	1.87E-01	1.44E-01	1.87E-01	1.44E-01	<1	6.59E+01	6.70E+01	<25	<25
2	Mid Centerline	1.20E-01	9.25E-02	1.12E-01	8.65E-02	1.12E-01	8.62E-02	<1	3.95E+01	4.02E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	1.31E-01	1.01E-01	1.24E-01	9.54E-02	1.24E-01	9.50E-02	<1	3.74E+01	3.81E+01	<25	<25
3	Mid Centerline	7.88E-02	6.06E-02	7.44E-02	5.72E-02	7.41E-02	5.70E-02	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
07:15	00:15	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	nr/hr per smear	
	Centerline	5.15E-01	3.96E-01	4.66E-01	3.59E-01	4.64E-01	3.57E-01	<1	2.48E+03	2.52E+02	2.52E+02	<25	<25	<25	
0.75	Mid Centerline	3.09E-01	2.38E-01	2.80E-01	2.15E-01	2.78E-01	2.14E-01	<1	1.49E+03	1.51E+02	1.51E+02	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	4.03E-01	3.10E-01	3.69E-01	2.84E-01	3.67E-01	2.83E-01	<1	1.71E+03	1.74E+02	1.74E+02	<25	<25	<25	
1	Mid Centerline	2.42E-01	1.86E-01	2.22E-01	1.70E-01	2.20E-01	1.70E-01	<1	1.03E+03	1.05E+02	1.05E+02	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	2.00E-01	1.54E-01	1.87E-01	1.44E-01	1.87E-01	1.44E-01	<1	6.59E+02	6.70E+01	6.70E+01	<25	<25	<25	
2	Mid Centerline	1.20E-01	9.25E-02	1.12E-01	8.65E-02	1.12E-01	8.62E-02	<1	3.95E+02	4.02E+01	4.02E+01	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	1.31E-01	1.01E-01	1.24E-01	9.54E-02	1.24E-01	9.50E-02	<1	3.74E+02	3.81E+01	3.81E+01	<25	<25	<25	
3	Mid Centerline	7.88E-02	6.06E-02	7.44E-02	5.72E-02	7.41E-02	5.70E-02	<1	2.25E+02	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	6.68E+01	<25	<25	<25	<25	<25	
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	4.01E+01	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 07:15	Drill Time 00:15	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	5.15E-01	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.04	0.17
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.10
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.12
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.07
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.05
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.03
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.03
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.02
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time 07:30	Drill Time 00:30	Survey Meter						Dose	Iodine			Particulate			Smear	
		3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SII-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SII-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	3.57E+01	2.68E+01	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	3.59E+01	2.69E+01	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	2.69E+01	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
07:30	00:30	3 inches/10 cm		3ft/1 Meter		5 Ft										
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	Contact ncps/ 10 ft3	SH-4 ncps/ 10 ft3	1.5 inch ncps/ 10 ft3	Contact ncps/ 10 ft3	SH-4 ncps/ 10 ft3	1.5 inch ncps/ 10 ft3	ncps per 100 cm2	mR/hr per smear
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
9	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
10	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
15	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
20	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
25	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
30	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
35	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
40	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
50	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.



## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
07:30	00:30	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
	Centerline	5.46E+00	4.20E+00	<1	1.16E+03	1.18E+02	1.18E+02	3.30E+03	3.30E+03	<25
100 feet	Mid Centerline	3.28E+00	2.52E+00	<1	6.93E+02	7.06E+01	7.06E+01	1.98E+03	1.98E+03	<25
	Plume Edge	5.46E-02	as read	<1	<25	<25	<25	3.30E+01	3.30E+01	<25
	Centerline	1.25E+00	9.60E-01	<1	1.91E+02	<25	<25	5.44E+02	5.44E+02	<25
200 feet	Mid Centerline	7.49E-01	5.76E-01	<1	1.14E+02	<25	<25	3.26E+02	3.26E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	4.29E-01	3.30E-01	<1	4.14E+01	<25	<25	1.18E+02	1.18E+02	<25
400 feet	Mid Centerline	2.57E-01	1.98E-01	<1	<25	<25	<25	7.09E+01	7.09E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	2.02E-01	1.55E-01	<1	<25	<25	<25	3.48E+01	3.48E+01	<25
800 feet	Mid Centerline	1.21E-01	9.33E-02	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	1.50E-01	1.15E-01	<1	<25	<25	<25	<25	<25	<25
1200 feet	Mid Centerline	9.00E-02	6.92E-02	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
07:30	00:30	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	4.37E+00	3.36E+00	<1	9.25E+02	9.42E+01	9.42E+01	2.64E+03	2.64E+03	<25
	Mid Centerline	2.62E+00	2.02E+00	<1	5.55E+02	5.65E+01	5.65E+01	1.58E+03	1.58E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	2.64E+01	2.64E+01	<25
200 feet	Centerline	9.98E-01	7.68E-01	<1	1.53E+02	<25	<25	4.35E+02	4.35E+02	<25
	Mid Centerline	5.99E-01	4.61E-01	<1	9.15E+01	<25	<25	2.61E+02	2.61E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
400 feet	Centerline	3.43E-01	2.64E-01	<1	3.31E+01	<25	<25	9.45E+01	9.45E+01	<25
	Mid Centerline	2.06E-01	1.58E-01	<1	<25	<25	<25	5.67E+01	5.67E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
800 feet	Centerline	1.62E-01	1.24E-01	<1	<25	<25	<25	2.78E+01	2.78E+01	<25
	Mid Centerline	9.70E-02	7.46E-02	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	1.20E-01	9.23E-02	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	7.20E-02	5.54E-02	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
07:30	00:30	3 Inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	1.05E-01	8.11E-02	6.11E-02	as read	5.86E-02	as read	<1	<25	<25	<25	<25
0.75	Mid Centerline	6.32E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	7.86E-02	6.05E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25
1	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
2	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
3	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	5.91E-02	as read	5.38E-02	as read	5.35E-02	as read	<1	<25	<25	<25	<25
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	5.19E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
07:30	00:30	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
0.75	Centerline	1.05E-01	8.11E-02	6.11E-02	as read	5.86E-02	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	6.32E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
1	Centerline	7.86E-02	6.05E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
4	Centerline	5.91E-02	as read	5.38E-02	as read	5.35E-02	as read	<1	1.75E+02	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	1.05E+02	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
5	Centerline	5.19E-02	as read	as read	as read	as read	as read	<1	1.76E+02	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	1.06E+02	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
6	Centerline	as read	as read	as read	as read	as read	as read	<1	1.32E+02	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	7.91E+01	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
7	Centerline	as read	as read	as read	as read	as read	as read	<1	9.30E+01	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	5.58E+01	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 07:30	Drill Time 00:30	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	1.05E-01	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time 07:45	Drill Time 00:45	Survey Meter						Dose	Iodine			Particulate			Smear	
		3 inches/10 cm		3ft/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
07:45	00:45	3 inches/10 cm		3ft/1 Meter		5 Ft			Contact	SIH-4	1.5 inch	Contact	SIH-4	1.5 inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3		
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
9	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
10	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
15	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
20	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
25	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
30	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
35	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
40	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
50	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
07:45	00:45	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
	Centerline	3.54E+00	2.72E+00	<1	<25	<25	<25	3.15E+03	3.15E+03	<25
100 feet	Mid Centerline	2.13E+00	1.63E+00	<1	<25	<25	<25	1.89E+03	1.89E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	3.15E+01	3.15E+01	<25
	Centerline	6.73E-01	5.18E-01	<1	<25	<25	<25	5.19E+02	5.19E+02	<25
200 feet	Mid Centerline	4.04E-01	3.11E-01	<1	<25	<25	<25	3.12E+02	3.12E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	1.87E-01	1.44E-01	<1	<25	<25	<25	1.13E+02	1.13E+02	<25
400 feet	Mid Centerline	1.12E-01	8.62E-02	<1	<25	<25	<25	6.77E+01	6.77E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	7.45E-02	5.73E-02	<1	<25	<25	<25	3.32E+01	3.32E+01	<25
800 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	5.24E-02	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.



**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
07:45	00:45	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mR/hr per smear
	Centerline	2.83E+00	2.18E+00	<1	<25	<25	<25	2.52E+03	2.52E+03	<25
100 feet	Mid Centerline	1.70E+00	1.31E+00	<1	<25	<25	<25	1.51E+03	1.51E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	2.52E+01	2.52E+01	<25
	Centerline	5.39E-01	4.14E-01	<1	<25	<25	<25	4.16E+02	4.16E+02	<25
200 feet	Mid Centerline	3.23E-01	2.49E-01	<1	<25	<25	<25	2.49E+02	2.49E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	1.49E-01	1.15E-01	<1	<25	<25	<25	9.02E+01	9.02E+01	<25
400 feet	Mid Centerline	8.97E-02	6.90E-02	<1	<25	<25	<25	5.41E+01	5.41E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	5.96E-02	as read	<1	<25	<25	<25	2.66E+01	2.66E+01	<25
800 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
07:45	00:45	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	5.93E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
0.75	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
1	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
2	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
3	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
07:45	00:45	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
	Centerline	5.93E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
0.75	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
1	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
2	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
3	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	6.46E+01	<25	<25	<25	<25	<25	
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	3.87E+01	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 07:45	Drill Time 00:45	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 Inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	5.93E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 07:45	Drill Time 00:45	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	1.99E-02	1.53E-02	1.81E-02	1.39E-02	1.80E-02	1.39E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.19E-02	as read	1.09E-02	as read	1.08E-02	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
10	Centerline	1.71E-02	1.31E-02	1.56E-02	1.20E-02	1.56E-02	1.20E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.02E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
08:00	01:00	3 inches/10 cm		30/1 Meter		5 Ft			Contact	SH-4	1.5 inch	Contact	SH-4	1.5 inch	ncpm per	mR/hr per
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	100 cm2	smear
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
08:00	01:00	3 inches/10 cm		36/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
9	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
10	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
15	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
20	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
25	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
08:00	01:00	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
	Centerline	2.95E+00	2.27E+00	<1	<25	<25	<25	3.01E+03	3.01E+03	<25
100 feet	Mid Centerline	1.77E+00	1.36E+00	<1	<25	<25	<25	1.81E+03	1.81E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	3.01E+01	3.01E+01	<25
	Centerline	5.21E-01	4.01E-01	<1	<25	<25	<25	4.97E+02	4.97E+02	<25
200 feet	Mid Centerline	3.12E-01	2.40E-01	<1	<25	<25	<25	2.98E+02	2.98E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	1.29E-01	9.91E-02	<1	<25	<25	<25	1.08E+02	1.08E+02	<25
400 feet	Mid Centerline	7.73E-02	5.95E-02	<1	<25	<25	<25	6.48E+01	6.48E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	<1	<25	<25	<25	3.18E+01	3.18E+01	<25
800 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.



**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
08:00	01:00	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	2.36E+00	1.81E+00	<1	<25	<25	<25	2.41E+03	2.41E+03	<25
	Mid Centerline	1.41E+00	1.09E+00	<1	<25	<25	<25	1.45E+03	1.45E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
200 feet	Centerline	4.17E-01	3.20E-01	<1	<25	<25	<25	3.98E+02	3.98E+02	<25
	Mid Centerline	2.50E-01	1.92E-01	<1	<25	<25	<25	2.39E+02	2.39E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
400 feet	Centerline	1.03E-01	7.93E-02	<1	<25	<25	<25	8.64E+01	8.64E+01	<25
	Mid Centerline	6.19E-02	as read	<1	<25	<25	<25	5.18E+01	5.18E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	<1	<25	<25	<25	2.54E+01	2.54E+01	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
07:45	00:45	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	5.93E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
0.75	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
1	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
2	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
3	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
07:45	00:45	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mr/hr per smear	
	Centerline	5.93E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
0.75	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
1	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
2	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
3	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
4	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	6.46E+01	<25	<25	<25	<25	<25	
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	3.87E+01	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 08:00	Drill Time 01:00	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	4.67E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time 08:15	Drift Time 01:15	Survey Meter						Dose	Iodine			Particulate			Smear	
		3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine				Particulate			Smear	
08:15	01:15	3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 f3	SH-4 ncpm/ 10 f3	1.5 inch ncpm/ 10 f3	Contact ncpm/ 10 f3	SH-4 ncpm/ 10 f3	1.5 inch ncpm/ 10 f3	ncpm per 100 cm2	mR/hr per smear	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	Contact ncpm/ 10 f3	SH-4 ncpm/ 10 f3	1.5 inch ncpm/ 10 f3	Contact ncpm/ 10 f3	SH-4 ncpm/ 10 f3	1.5 inch ncpm/ 10 f3	ncpm per 100 cm2	mR/hr per smear	
9	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
10	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
15	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
20	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
25	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
30	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
35	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
40	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
50	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
08:15	01:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Mln (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mR/hr per smear
100 feet	Centerline	2.61E+00	2.01E+00	as read	<25	<25	<25	2.90E+03	2.90E+03	<25
	Mid Centerline	1.57E+00	1.21E+00	as read	<25	<25	<25	1.74E+03	1.74E+03	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	2.90E+01	2.90E+01	<25
200 feet	Centerline	4.47E-01	3.44E-01	as read	<25	<25	<25	4.78E+02	4.78E+02	<25
	Mid Centerline	2.68E-01	2.06E-01	as read	<25	<25	<25	2.87E+02	2.87E+02	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
400 feet	Centerline	1.04E-01	8.04E-02	as read	<25	<25	<25	1.04E+02	1.04E+02	<25
	Mid Centerline	6.27E-02	as read	as read	<25	<25	<25	6.22E+01	6.22E+01	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	as read	<25	<25	<25	3.05E+01	3.05E+01	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
08:15	01:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mR/hr per smear
	Centerline	2.09E+00	1.61E+00	<1	<25	<25	<25	2.32E+03	2.32E+03	<25
100 feet	Mid Centerline	1.25E+00	9.65E-01	<1	<25	<25	<25	1.39E+03	1.39E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	3.58E-01	2.75E-01	<1	<25	<25	<25	3.82E+02	3.82E+02	<25
200 feet	Mid Centerline	2.15E-01	1.65E-01	<1	<25	<25	<25	2.29E+02	2.29E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	8.36E-02	6.43E-02	<1	<25	<25	<25	8.30E+01	8.30E+01	<25
400 feet	Mid Centerline	5.02E-02	as read	<1	<25	<25	<25	4.98E+01	4.98E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
800 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.



Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 08:15	Drill Time 01:15	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	4.05E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
08:30	01:30	3 inches/10 cm		30/1 Meter		5 Ft			Contact	SH-4	1.5 inch	Contact	SH-4	1.5 inch	acpm per	mR/hr per
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	100 cm2	smear
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Read Time 08:30	Drift Time 01:30	Survey Meter						Dose	Iodine				Particulate			Smear	
		3 inches/10 cm		3ft/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)									
9	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
10	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
15	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
20	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
25	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
30	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
35	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
40	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
50	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25	

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
08:30	01:30	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	2.38E+00	1.83E+00	as read	<25	<25	<25	2.79E+03	2.79E+03	<25
	Mid Centerline	1.43E+00	1.10E+00	as read	<25	<25	<25	1.67E+03	1.67E+03	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	2.79E+01	2.79E+01	<25
200 feet	Centerline	4.00E-01	3.08E-01	as read	<25	<25	<25	4.60E+02	4.60E+02	<25
	Mid Centerline	2.40E-01	1.85E-01	as read	<25	<25	<25	2.76E+02	2.76E+02	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
400 feet	Centerline	9.06E-02	6.97E-02	as read	<25	<25	<25	9.99E+01	9.99E+01	<25
	Mid Centerline	5.44E-02	as read	as read	<25	<25	<25	6.00E+01	6.00E+01	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	as read	<25	<25	<25	2.94E+01	2.94E+01	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
08:30	01:30	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.90E+00	1.46E+00	<1	<25	<25	<25	2.23E+03	2.23E+03	<25
	Mid Centerline	1.14E+00	8.78E-01	<1	<25	<25	<25	1.34E+03	1.34E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
200 feet	Centerline	3.20E-01	2.46E-01	<1	<25	<25	<25	3.68E+02	3.68E+02	<25
	Mid Centerline	1.92E-01	1.48E-01	<1	<25	<25	<25	2.21E+02	2.21E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
400 feet	Centerline	7.25E-02	5.58E-02	<1	<25	<25	<25	7.99E+01	7.99E+01	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	4.80E+01	4.80E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 08:30	Drill Time 01:30	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine uCi/cc	Ion Chamber mRem/hr	E-140 mRem/hr	Part. uCi/cc	Ion Chamber mRem/hr	E-140 mRem/hr
		mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed							
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed							
0.75	Centerline	3.64E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
08:45	01:45	3 inches/10 cm		3ft/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		Dose Rate
08:45	01:45	3I/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
	Centerline	2.19E+00	1.69E+00	as read	<25	<25	<25	2.70E+03	2.70E+03	<25
100 feet	Mid Centerline	1.32E+00	1.01E+00	as read	<25	<25	<25	1.62E+03	1.62E+03	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	2.70E+01	2.70E+01	<25
	Centerline	3.66E-01	2.82E-01	as read	<25	<25	<25	4.45E+02	4.45E+02	<25
200 feet	Mid Centerline	2.20E-01	1.69E-01	as read	<25	<25	<25	2.67E+02	2.67E+02	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Centerline	8.14E-02	6.26E-02	as read	<25	<25	<25	9.66E+01	9.66E+01	<25
400 feet	Mid Centerline	as read	as read	as read	<25	<25	<25	5.80E+01	5.80E+01	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	<25	<25	<25	2.84E+01	2.84E+01	<25
800 feet	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
1200 feet	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.



**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		Dose Rate
08:45	01:45	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.75E+00	1.35E+00	<1	<25	<25	<25	2.16E+03	2.16E+03	<25
	Mid Centerline	1.05E+00	8.10E-01	<1	<25	<25	<25	1.29E+03	1.29E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
200 feet	Centerline	2.93E-01	2.25E-01	<1	<25	<25	<25	3.56E+02	3.56E+02	<25
	Mid Centerline	1.76E-01	1.35E-01	<1	<25	<25	<25	2.14E+02	2.14E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
400 feet	Centerline	6.51E-02	5.01E-02	<1	<25	<25	<25	7.73E+01	7.73E+01	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	4.64E+01	4.64E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 08:45	Drill Time 01:45	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	3.33E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
09:00	02:00	3 inches/10 cm		3R/1 Meter		5 Ft										
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
0.75	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
1	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
2	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time 09:00	Drill Time 02:00	Survey Meter						Dose	Iodine			Particulate			Smear	
		3 inches/10 cm		3ft/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
9	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
10	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
15	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
20	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
25	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
30	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
35	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
40	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
50	Mid Centerline	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	2	2	2	2	2	2	1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
09:00	02:00	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	2.04E+00	1.57E+00	as read	<25	<25	<25	2.61E+03	2.61E+03	<25
	Mid Centerline	1.23E+00	9.42E-01	as read	<25	<25	<25	1.57E+03	1.57E+03	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	2.61E+01	2.61E+01	<25
200 feet	Centerline	3.39E-01	2.61E-01	as read	<25	<25	<25	4.31E+02	4.31E+02	<25
	Mid Centerline	2.03E-01	1.57E-01	as read	<25	<25	<25	2.59E+02	2.59E+02	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
400 feet	Centerline	7.47E-02	5.74E-02	as read	<25	<25	<25	9.36E+01	9.36E+01	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	5.62E+01	5.62E+01	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	as read	<25	<25	<25	2.76E+01	2.76E+01	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
09:00	02:00	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.63E+00	1.26E+00	<1	<25	<25	<25	2.09E+03	2.09E+03	<25
	Mid Centerline	9.80E-01	7.54E-01	<1	<25	<25	<25	1.25E+03	1.25E+03	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
200 feet	Centerline	2.71E-01	2.09E-01	<1	<25	<25	<25	3.45E+02	3.45E+02	<25
	Mid Centerline	1.63E-01	1.25E-01	<1	<25	<25	<25	2.07E+02	2.07E+02	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
400 feet	Centerline	5.97E-02	as read	<1	<25	<25	<25	7.49E+01	7.49E+01	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	4.49E+01	4.49E+01	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
800 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25
1200 feet	Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	<1	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 09:00	Drill Time 02:00	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 Inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	3.09E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:00	04:00	3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 ft <sup>2</sup>	SIH-4 ncpm/ 10 ft <sup>2</sup>	1.5 inch ncpm/ 10 ft <sup>2</sup>	Contact ncpm/ 10 ft <sup>2</sup>	SIH-4 ncpm/ 10 ft <sup>2</sup>	1.5 inch ncpm/ 10 ft <sup>2</sup>	ncpm per 100 cm <sup>2</sup>	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	Contact ncpm/ 10 ft <sup>2</sup>	SIH-4 ncpm/ 10 ft <sup>2</sup>	1.5 inch ncpm/ 10 ft <sup>2</sup>	Contact ncpm/ 10 ft <sup>2</sup>	SIH-4 ncpm/ 10 ft <sup>2</sup>	1.5 inch ncpm/ 10 ft <sup>2</sup>	ncpm per 100 cm <sup>2</sup>	mR/hr per smear
0.75	Centerline	1.03E+03	7.95E+02	9.62E+02	7.40E+02	9.58E+02	7.37E+02	6.11E+01	1.06E+04	1.06E+04	2.12E+03	1.19E+06	8.94E+05	2.38E+05	1.23E+04	<25
	Mid Centerline	6.20E+02	4.77E+02	5.77E+02	4.44E+02	5.75E+02	4.42E+02	3.67E+01	6.35E+03	6.35E+03	1.27E+03	7.15E+05	5.36E+05	1.43E+05	7.40E+03	<25
	Plume Edge	1.03E+01	7.95E+00	9.62E+00	7.40E+00	9.58E+00	7.37E+00	<1	1.06E+02	1.06E+02	<25	1.19E+04	8.94E+03	2.38E+03	1.23E+02	<25
1	Centerline	7.19E+02	5.53E+02	6.76E+02	5.20E+02	6.73E+02	5.18E+02	4.30E+01	6.40E+03	6.40E+03	1.28E+03	7.21E+05	5.41E+05	1.44E+05	7.46E+03	<25
	Mid Centerline	4.32E+02	3.32E+02	4.05E+02	3.12E+02	4.04E+02	3.11E+02	2.58E+01	3.84E+03	3.84E+03	7.68E+02	4.33E+05	3.25E+05	8.65E+04	4.48E+03	<25
	Plume Edge	7.19E+00	5.53E+00	6.76E+00	5.20E+00	6.73E+00	5.18E+00	<1	6.40E+01	6.40E+01	<25	7.21E+03	5.41E+03	1.44E+03	7.46E+01	<25
2	Centerline	2.59E+02	2.00E+02	2.47E+02	1.90E+02	2.46E+02	1.90E+02	1.57E+01	1.82E+03	1.82E+03	3.64E+02	2.05E+05	1.54E+05	4.10E+04	2.12E+03	<25
	Mid Centerline	1.56E+02	1.20E+02	1.48E+02	1.14E+02	1.48E+02	1.14E+02	9.45E+00	1.09E+03	1.09E+03	2.18E+02	1.23E+05	9.22E+04	2.46E+04	1.27E+03	<25
	Plume Edge	2.59E+00	2.00E+00	2.47E+00	1.90E+00	2.46E+00	1.90E+00	<1	<25	<25	<25	2.05E+03	1.54E+03	4.10E+02	<25	<25
3	Centerline	1.34E+02	1.03E+02	1.28E+02	9.84E+01	1.28E+02	9.81E+01	8.15E+00	8.60E+02	8.60E+02	1.72E+02	9.68E+04	7.26E+04	1.94E+04	1.00E+03	<25
	Mid Centerline	8.02E+01	6.17E+01	7.67E+01	5.90E+01	7.65E+01	5.89E+01	4.89E+00	5.16E+02	5.16E+02	1.03E+02	5.81E+04	4.36E+04	1.16E+04	6.01E+02	<25
	Plume Edge	1.34E+00	1.03E+00	1.28E+00	9.84E-01	1.28E+00	9.81E-01	<1	<25	<25	<25	9.68E+02	7.26E+02	1.94E+02	<25	<25
4	Centerline	3.05E+01	2.35E+01	2.91E+01	2.24E+01	2.90E+01	2.23E+01	1.85E+00	2.09E+02	2.09E+02	4.18E+01	2.35E+04	1.76E+04	4.70E+03	2.43E+02	<25
	Mid Centerline	1.83E+01	1.41E+01	1.74E+01	1.34E+01	1.74E+01	1.34E+01	1.11E+00	1.25E+02	1.25E+02	2.51E+01	1.41E+04	1.06E+04	2.82E+03	1.46E+02	<25
	Plume Edge	3.05E-01	2.35E-01	2.91E-01	2.24E-01	2.90E-01	2.23E-01	<1	<25	<25	<25	2.35E+02	1.76E+02	4.70E+01	<25	<25
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.



# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:00	04:00	3 inches/10 cm		3ft/1 Meter		5 Ft			Contact	SH-4	1.5 inch	Contact	SH-4	1.5 inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3		
9	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
10	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:00	04:00	3R/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.43E+04	1.10E+04	840	8.14E+08	9.17E+07	9.17E+07	1.90E+06	1.90E+06	5.27E+02
	Mid Centerline	8.61E+03	6.62E+03	504	4.88E+08	5.50E+07	5.50E+07	1.14E+06	1.14E+06	3.16E+02
	Plume Edge	1.43E+02	1.10E+02	8	8.14E+06	9.17E+05	9.17E+05	1.90E+04	1.90E+04	<25
200 feet	Centerline	8.78E+03	6.76E+03	531	3.33E+08	3.75E+07	3.75E+07	7.76E+05	7.76E+05	2.16E+02
	Mid Centerline	5.27E+03	4.05E+03	318	2.00E+08	2.25E+07	2.25E+07	4.66E+05	4.66E+05	1.29E+02
	Plume Edge	8.78E+01	6.76E+01	5	3.33E+06	3.75E+05	3.75E+05	7.76E+03	7.76E+03	<25
400 feet	Centerline	6.52E+03	5.02E+03	403	1.50E+08	1.69E+07	1.69E+07	3.50E+05	3.50E+05	9.73E+01
	Mid Centerline	3.91E+03	3.01E+03	242	9.01E+07	1.02E+07	1.02E+07	2.10E+05	2.10E+05	5.84E+01
	Plume Edge	6.52E+01	5.02E+01	4	1.50E+06	1.69E+05	1.69E+05	3.50E+03	3.50E+03	<25
800 feet	Centerline	4.37E+03	3.36E+03	273	6.69E+07	7.54E+06	7.54E+06	1.56E+05	1.56E+05	4.34E+01
	Mid Centerline	2.62E+03	2.01E+03	164	4.02E+07	4.52E+06	4.52E+06	9.36E+04	9.36E+04	2.60E+01
	Plume Edge	4.37E+01	3.36E+01	3	6.69E+05	7.54E+04	7.54E+04	1.56E+03	1.56E+03	<25
1200 feet	Centerline	3.28E+03	2.52E+03	206	3.89E+07	4.38E+06	4.38E+06	9.07E+04	9.07E+04	2.52E+01
	Mid Centerline	1.97E+03	1.51E+03	124	2.34E+07	2.63E+06	2.63E+06	5.44E+04	5.44E+04	<25
	Plume Edge	3.28E+01	2.52E+01	2	3.89E+05	4.38E+04	4.38E+04	9.07E+02	9.07E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:00	04:00	3I/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.15E+04	8.83E+03	672	6.51E+08	7.33E+07	7.33E+07	1.52E+06	1.52E+06	4.22E+02
	Mid Centerline	6.88E+03	5.30E+03	403	3.91E+08	4.40E+07	4.40E+07	9.10E+05	9.10E+05	2.53E+02
	Plume Edge	1.15E+02	8.83E+01	7	6.51E+06	7.33E+05	7.33E+05	1.52E+04	1.52E+04	<25
200 feet	Centerline	7.03E+03	5.41E+03	424	2.66E+08	3.00E+07	3.00E+07	6.21E+05	6.21E+05	1.73E+02
	Mid Centerline	4.22E+03	3.24E+03	255	1.60E+08	1.80E+07	1.80E+07	3.72E+05	3.72E+05	1.04E+02
	Plume Edge	7.03E+01	5.41E+01	4	2.66E+06	3.00E+05	3.00E+05	6.21E+03	6.21E+03	<25
400 feet	Centerline	5.22E+03	4.01E+03	323	1.20E+08	1.35E+07	1.35E+07	2.80E+05	2.80E+05	7.79E+01
	Mid Centerline	3.13E+03	2.41E+03	194	7.21E+07	8.12E+06	8.12E+06	1.68E+05	1.68E+05	4.67E+01
	Plume Edge	5.22E+01	4.01E+01	3	1.20E+06	1.35E+05	1.35E+05	2.80E+03	2.80E+03	<25
800 feet	Centerline	3.49E+03	2.69E+03	219	5.35E+07	6.03E+06	6.03E+06	1.25E+05	1.25E+05	3.47E+01
	Mid Centerline	2.10E+03	1.61E+03	131	3.21E+07	3.62E+06	3.62E+06	7.49E+04	7.49E+04	<25
	Plume Edge	3.49E+01	2.69E+01	2	5.35E+05	6.03E+04	6.03E+04	1.25E+03	1.25E+03	<25
1200 feet	Centerline	2.62E+03	2.02E+03	165	3.11E+07	3.51E+06	3.51E+06	7.26E+04	7.26E+04	<25
	Mid Centerline	1.57E+03	1.21E+03	99	1.87E+07	2.10E+06	2.10E+06	4.35E+04	4.35E+04	<25
	Plume Edge	2.62E+01	2.02E+01	2	3.11E+05	3.51E+04	3.51E+04	7.26E+02	7.26E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:00	04:00	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	1.03E+03	7.95E+02	9.62E+02	7.40E+02	9.58E+02	7.37E+02	6.11E+01	5.29E+05	5.96E+05	1.23E+04	<25
0.75	Mid Centerline	6.20E+02	4.77E+02	5.77E+02	4.44E+02	5.75E+02	4.42E+02	3.67E+01	3.17E+05	3.58E+05	7.40E+03	<25
	Plume Edge	1.03E+01	7.95E+00	9.62E+00	7.40E+00	9.58E+00	7.37E+00	<1	5.29E+03	5.96E+03	1.23E+02	<25
	Centerline	7.19E+02	5.53E+02	6.76E+02	5.20E+02	6.73E+02	5.18E+02	4.30E+01	3.20E+05	3.61E+05	7.46E+03	<25
1	Mid Centerline	4.32E+02	3.32E+02	4.05E+02	3.12E+02	4.04E+02	3.11E+02	2.58E+01	1.92E+05	2.16E+05	4.48E+03	<25
	Plume Edge	7.19E+00	5.53E+00	6.76E+00	5.20E+00	6.73E+00	5.18E+00	<1	3.20E+03	3.61E+03	7.46E+01	<25
	Centerline	2.59E+02	2.00E+02	2.47E+02	1.90E+02	2.46E+02	1.90E+02	1.57E+01	9.09E+04	1.02E+05	2.12E+03	<25
2	Mid Centerline	1.56E+02	1.20E+02	1.48E+02	1.14E+02	1.48E+02	1.14E+02	9.45E+00	5.46E+04	6.14E+04	1.27E+03	<25
	Plume Edge	2.59E+00	2.00E+00	2.47E+00	1.90E+00	2.46E+00	1.90E+00	<1	9.09E+02	1.02E+03	<25	<25
	Centerline	1.34E+02	1.03E+02	1.28E+02	9.84E+01	1.28E+02	9.81E+01	8.15E+00	4.30E+04	4.84E+04	1.00E+03	<25
3	Mid Centerline	8.02E+01	6.17E+01	7.67E+01	5.90E+01	7.65E+01	5.89E+01	4.89E+00	2.58E+04	2.91E+04	6.01E+02	<25
	Plume Edge	1.34E+00	1.03E+00	1.28E+00	9.84E-01	1.28E+00	9.81E-01	<1	4.30E+02	4.84E+02	<25	<25
	Centerline	3.05E+01	2.35E+01	2.91E+01	2.24E+01	2.90E+01	2.23E+01	1.85E+00	1.04E+04	1.18E+04	2.43E+02	<25
4	Mid Centerline	1.83E+01	1.41E+01	1.74E+01	1.34E+01	1.74E+01	1.34E+01	1.11E+00	6.26E+03	7.06E+03	1.46E+02	<25
	Plume Edge	3.05E-01	2.35E-01	2.91E-01	2.24E-01	2.90E-01	2.23E-01	<1	1.04E+02	1.18E+02	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:00	04:00	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
	Centerline	1.03E+03	7.95E+02	9.62E+02	7.40E+02	9.58E+02	7.37E+02	6.11E+01	5.29E+06	5.96E+05	5.96E+05	1.23E+04	1.23E+04	<25	
0.75	Mid Centerline	6.20E+02	4.77E+02	5.77E+02	4.44E+02	5.75E+02	4.42E+02	3.67E+01	3.17E+06	3.58E+05	3.58E+05	7.40E+03	7.40E+03	<25	
	Plume Edge	1.03E+01	7.95E+00	9.62E+00	7.40E+00	9.58E+00	7.37E+00	<1	5.29E+04	5.96E+03	5.96E+03	1.23E+02	1.23E+02	<25	
	Centerline	7.19E+02	5.53E+02	6.76E+02	5.20E+02	6.73E+02	5.18E+02	4.30E+01	3.20E+06	3.61E+05	3.61E+05	7.46E+03	7.46E+03	<25	
1	Mid Centerline	4.32E+02	3.32E+02	4.05E+02	3.12E+02	4.04E+02	3.11E+02	2.58E+01	1.92E+06	2.16E+05	2.16E+05	4.48E+03	4.48E+03	<25	
	Plume Edge	7.19E+00	5.53E+00	6.76E+00	5.20E+00	6.73E+00	5.18E+00	<1	3.20E+04	3.61E+03	3.61E+03	7.46E+01	7.46E+01	<25	
	Centerline	2.59E+02	2.00E+02	2.47E+02	1.90E+02	2.46E+02	1.90E+02	1.57E+01	9.09E+05	1.02E+05	1.02E+05	2.12E+03	2.12E+03	<25	
2	Mid Centerline	1.56E+02	1.20E+02	1.48E+02	1.14E+02	1.48E+02	1.14E+02	9.45E+00	5.46E+05	6.14E+04	6.14E+04	1.27E+03	1.27E+03	<25	
	Plume Edge	2.59E+00	2.00E+00	2.47E+00	1.90E+00	2.46E+00	1.90E+00	<1	9.09E+03	1.02E+03	1.02E+03	<25	<25	<25	
	Centerline	1.34E+02	1.03E+02	1.28E+02	9.84E+01	1.28E+02	9.81E+01	8.15E+00	4.30E+05	4.84E+04	4.84E+04	1.00E+03	1.00E+03	<25	
3	Mid Centerline	8.02E+01	6.17E+01	7.67E+01	5.90E+01	7.65E+01	5.89E+01	4.89E+00	2.58E+05	2.91E+04	2.91E+04	6.01E+02	6.01E+02	<25	
	Plume Edge	1.34E+00	1.03E+00	1.28E+00	9.84E-01	1.28E+00	9.81E-01	<1	4.30E+03	4.84E+02	4.84E+02	<25	<25	<25	
	Centerline	3.05E+01	2.35E+01	2.91E+01	2.24E+01	2.90E+01	2.23E+01	1.85E+00	1.04E+05	1.18E+04	1.18E+04	2.43E+02	2.43E+02	<25	
4	Mid Centerline	1.83E+01	1.41E+01	1.74E+01	1.34E+01	1.74E+01	1.34E+01	1.11E+00	6.26E+04	7.06E+03	7.06E+03	1.46E+02	1.46E+02	<25	
	Plume Edge	3.05E-01	2.35E-01	2.91E-01	2.24E-01	2.90E-01	2.23E-01	<1	1.04E+03	1.18E+02	1.18E+02	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	1.04E+02	<25	<25	<25	<25	<25	
5	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	6.24E+01	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
6	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
7	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
8	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 11:00	Drill Time 04:00	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	1.03E+03	7.95E+02	9.62E+02	7.40E+02	9.58E+02	7.37E+02	6.11E+01	8.41E-06	2.67	7.51	9.48E-06	101.24	413.80
	Mid Centerline	6.20E+02	4.77E+02	5.77E+02	4.44E+02	5.75E+02	4.42E+02	3.67E+01	5.05E-06	1.60	4.51	5.69E-06	60.74	248.28
	Plume Edge	1.03E+01	7.95E+00	9.62E+00	7.40E+00	9.58E+00	7.37E+00	<1	8.41E-08	0.03	0.08	9.48E-08	1.01	4.14
1	Centerline	7.19E+02	5.53E+02	6.76E+02	5.20E+02	6.73E+02	5.18E+02	4.30E+01	5.09E-06	1.62	4.55	5.73E-06	61.25	250.37
	Mid Centerline	4.32E+02	3.32E+02	4.05E+02	3.12E+02	4.04E+02	3.11E+02	2.58E+01	3.05E-06	0.97	2.73	3.44E-06	36.75	150.22
	Plume Edge	7.19E+00	5.53E+00	6.76E+00	5.20E+00	6.73E+00	5.18E+00	<1	5.09E-08	0.02	0.05	5.73E-08	0.61	2.50
2	Centerline	2.59E+02	2.00E+02	2.47E+02	1.90E+02	2.46E+02	1.90E+02	1.57E+01	1.45E-06	0.46	1.29	1.63E-06	17.39	71.10
	Mid Centerline	1.56E+02	1.20E+02	1.48E+02	1.14E+02	1.48E+02	1.14E+02	9.45E+00	8.67E-07	0.28	0.77	9.77E-07	10.44	42.66
	Plume Edge	2.59E+00	2.00E+00	2.47E+00	1.90E+00	2.46E+00	1.90E+00	<1	1.45E-08	<0.01	0.01	1.63E-08	0.17	0.71
3	Centerline	1.34E+02	1.03E+02	1.28E+02	9.84E+01	1.28E+02	9.81E+01	8.15E+00	6.84E-07	0.22	0.61	7.70E-07	8.23	33.62
	Mid Centerline	8.02E+01	6.17E+01	7.67E+01	5.90E+01	7.65E+01	5.89E+01	4.89E+00	4.10E-07	0.13	0.37	4.62E-07	4.94	20.17
	Plume Edge	1.34E+00	1.03E+00	1.28E+00	9.84E-01	1.28E+00	9.81E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.08	0.34
4	Centerline	3.05E+01	2.35E+01	2.91E+01	2.24E+01	2.90E+01	2.23E+01	1.85E+00	1.66E-07	0.05	0.15	1.87E-07	2.00	8.17
	Mid Centerline	1.83E+01	1.41E+01	1.74E+01	1.34E+01	1.74E+01	1.34E+01	1.11E+00	9.96E-08	0.03	0.09	1.12E-07	1.20	4.90
	Plume Edge	3.05E-01	2.35E-01	2.91E-01	2.24E-01	2.90E-01	2.23E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.08
5	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:15	04:15	3 inches/10 cm		30/1 Meter		5 Ft			Contact	SI-4	1.5 inch	Contact	SI-4	1.5 inch	ncpm per	mR/hr per
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
0.75	Centerline	6.54E+02	5.03E+02	5.86E+02	4.51E+02	5.82E+02	4.48E+02	3.71E+01	1.53E+02	1.53E+02	3.06E+01	1.73E+04	1.30E+04	3.45E+03	1.21E+04	<25
	Mid Centerline	3.92E+02	3.02E+02	3.52E+02	2.70E+02	3.49E+02	2.69E+02	2.22E+01	9.17E+01	9.17E+01	<25	1.04E+04	7.77E+03	2.07E+03	7.26E+03	<25
	Plume Edge	6.54E+00	5.03E+00	5.86E+00	4.51E+00	5.82E+00	4.48E+00	<1	<25	<25	<25	1.73E+02	1.30E+02	3.45E+01	1.21E+02	<25
1	Centerline	4.52E+02	3.48E+02	4.11E+02	3.16E+02	4.09E+02	3.15E+02	2.61E+01	9.24E+01	9.24E+01	<25	1.05E+04	7.84E+03	2.09E+03	7.32E+03	<25
	Mid Centerline	2.71E+02	2.09E+02	2.47E+02	1.90E+02	2.45E+02	1.89E+02	1.56E+01	5.55E+01	5.55E+01	<25	6.27E+03	4.70E+03	1.25E+03	4.39E+03	<25
	Plume Edge	4.52E+00	3.48E+00	4.11E+00	3.16E+00	4.09E+00	3.15E+00	<1	<25	<25	<25	1.05E+02	7.84E+01	<25	7.32E+01	<25
2	Centerline	1.62E+02	1.25E+02	1.50E+02	1.16E+02	1.50E+02	1.15E+02	9.55E+00	2.62E+01	2.62E+01	<25	2.97E+03	2.23E+03	5.94E+02	2.08E+03	<25
	Mid Centerline	9.72E+01	7.48E+01	9.02E+01	6.94E+01	8.98E+01	6.91E+01	5.73E+00	<25	<25	<25	1.78E+03	1.34E+03	3.56E+02	1.25E+03	<25
	Plume Edge	1.62E+00	1.25E+00	1.50E+00	1.16E+00	1.50E+00	1.15E+00	<1	<25	<25	<25	2.97E+01	<25	<25	<25	<25
3	Centerline	8.34E+01	6.42E+01	7.79E+01	5.99E+01	7.76E+01	5.97E+01	4.95E+00	<25	<25	<25	1.93E+03	1.45E+03	3.87E+02	9.88E+02	<25
	Mid Centerline	5.01E+01	3.85E+01	4.67E+01	3.59E+01	4.65E+01	3.58E+01	2.97E+00	<25	<25	<25	1.16E+03	8.70E+02	2.32E+02	5.93E+02	<25
	Plume Edge	8.34E-01	6.42E-01	7.79E-01	5.99E-01	7.76E-01	5.97E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	6.59E+01	5.07E+01	6.20E+01	4.77E+01	6.18E+01	4.76E+01	3.95E+00	3.17E+02	3.17E+02	6.33E+01	3.58E+04	2.68E+04	7.16E+03	6.05E+02	<25
	Mid Centerline	3.96E+01	3.04E+01	3.72E+01	2.86E+01	3.71E+01	2.85E+01	2.37E+00	1.90E+02	1.90E+02	3.80E+01	2.15E+04	1.61E+04	4.29E+03	3.63E+02	<25
	Plume Edge	6.59E-01	5.07E-01	6.20E-01	4.77E-01	6.18E-01	4.76E-01	<1	<25	<25	<25	3.58E+02	2.68E+02	7.16E+01	<25	<25
5	Centerline	5.12E+01	3.94E+01	4.83E+01	3.72E+01	4.81E+01	3.70E+01	3.07E+00	3.53E+02	3.53E+02	7.06E+01	3.99E+04	2.99E+04	7.98E+03	4.13E+02	<25
	Mid Centerline	3.07E+01	2.36E+01	2.90E+01	2.23E+01	2.89E+01	2.22E+01	1.84E+00	2.12E+02	2.12E+02	4.23E+01	2.39E+04	1.79E+04	4.79E+03	2.48E+02	<25
	Plume Edge	5.12E-01	3.94E-01	4.83E-01	3.72E-01	4.81E-01	3.70E-01	<1	<25	<25	<25	3.99E+02	2.99E+02	7.98E+01	<25	<25
6	Centerline	3.56E+01	2.74E+01	3.37E+01	2.59E+01	3.36E+01	2.58E+01	2.14E+00	2.42E+02	2.42E+02	4.85E+01	2.74E+04	2.06E+04	5.48E+03	2.84E+02	<25
	Mid Centerline	2.14E+01	1.65E+01	2.02E+01	1.55E+01	2.01E+01	1.55E+01	1.29E+00	1.45E+02	1.45E+02	2.91E+01	1.64E+04	1.23E+04	3.29E+03	1.70E+02	<25
	Plume Edge	3.56E-01	2.74E-01	3.37E-01	2.59E-01	3.36E-01	2.58E-01	<1	<25	<25	<25	2.74E+02	2.06E+02	5.48E+01	<25	<25
7	Centerline	2.30E+01	1.77E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.39E+00	1.50E+02	1.50E+02	3.00E+01	1.69E+04	1.27E+04	3.39E+03	1.75E+02	<25
	Mid Centerline	1.38E+01	1.06E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	8.99E+01	8.99E+01	<25	1.02E+04	7.62E+03	2.03E+03	1.05E+02	<25
	Plume Edge	2.30E-01	1.77E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	<25	<25	<25	1.69E+02	1.27E+02	3.39E+01	<25	<25
8	Centerline	5.50E+00	4.23E+00	5.14E+00	3.95E+00	5.12E+00	3.94E+00	<1	4.49E+01	4.49E+01	<25	5.07E+03	3.80E+03	1.01E+03	5.25E+01	<25
	Mid Centerline	3.30E+00	2.54E+00	3.08E+00	2.37E+00	3.07E+00	2.36E+00	<1	2.69E+01	2.69E+01	<25	3.04E+03	2.28E+03	6.09E+02	3.15E+01	<25
	Plume Edge	5.50E-02	as read	5.14E-02	as read	5.12E-02	as read	<1	<25	<25	<25	5.07E+01	3.80E+01	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time 11:15	Drill Time 04:15	Survey Meter						Dose  SRD Per 5 Min (mR)	Iodine			Particulate			Smear	
		3 inches/10 cm		3ft/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SIH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SIH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed									
9	Centerline	7.10E-02	5.46E-02	5.25E-02	as read	5.14E-02	as read	<1	<25	<25	<25	2.57E+02	1.93E+02	5.15E+01	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	1.54E+02	1.16E+02	3.09E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
10	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.



## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:15	04:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	9.11E+03	7.01E+03	509	1.17E+07	1.33E+06	1.33E+06	1.86E+06	1.86E+06	5.17E+02
	Mid Centerline	5.47E+03	4.20E+03	306	7.05E+06	7.97E+05	7.97E+05	1.12E+06	1.12E+06	3.10E+02
	Plume Edge	9.11E+01	7.01E+01	5	1.17E+05	1.33E+04	1.33E+04	1.86E+04	1.86E+04	<25
200 feet	Centerline	5.50E+03	4.23E+03	322	4.81E+06	5.43E+05	5.43E+05	7.61E+05	7.61E+05	2.12E+02
	Mid Centerline	3.30E+03	2.54E+03	193	2.88E+06	3.26E+05	3.26E+05	4.57E+05	4.57E+05	1.27E+02
	Plume Edge	5.50E+01	4.23E+01	3	4.81E+04	5.43E+03	5.43E+03	7.61E+03	7.61E+03	<25
400 feet	Centerline	4.03E+03	3.10E+03	245	2.17E+06	2.45E+05	2.45E+05	3.43E+05	3.43E+05	9.55E+01
	Mid Centerline	2.42E+03	1.86E+03	147	1.30E+06	1.47E+05	1.47E+05	2.06E+05	2.06E+05	5.73E+01
	Plume Edge	4.03E+01	3.10E+01	2	2.17E+04	2.45E+03	2.45E+03	3.43E+03	3.43E+03	<25
800 feet	Centerline	2.68E+03	2.06E+03	166	9.66E+05	1.09E+05	1.09E+05	1.53E+05	1.53E+05	4.25E+01
	Mid Centerline	1.61E+03	1.24E+03	99	5.80E+05	6.55E+04	6.55E+04	9.18E+04	9.18E+04	2.55E+01
	Plume Edge	2.68E+01	2.06E+01	2	9.66E+03	1.09E+03	1.09E+03	1.53E+03	1.53E+03	<25
1200 feet	Centerline	2.01E+03	1.54E+03	125	5.62E+05	6.35E+04	6.35E+04	8.90E+04	8.90E+04	<25
	Mid Centerline	1.20E+03	9.27E+02	75	3.37E+05	3.81E+04	3.81E+04	5.34E+04	5.34E+04	<25
	Plume Edge	2.01E+01	1.54E+01	1	5.62E+03	6.35E+02	6.35E+02	8.90E+02	8.90E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:15	04:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	7.29E+03	5.61E+03	408	9.40E+06	1.06E+06	1.06E+06	1.49E+06	1.49E+06	4.14E+02
	Mid Centerline	4.37E+03	3.36E+03	245	5.64E+06	6.37E+05	6.37E+05	8.93E+05	8.93E+05	2.48E+02
	Plume Edge	7.29E+01	5.61E+01	4	9.40E+04	1.06E+04	1.06E+04	1.49E+04	1.49E+04	<25
200 feet	Centerline	4.40E+03	3.38E+03	257	3.85E+06	4.35E+05	4.35E+05	6.09E+05	6.09E+05	1.69E+02
	Mid Centerline	2.64E+03	2.03E+03	154	2.31E+06	2.61E+05	2.61E+05	3.65E+05	3.65E+05	1.02E+02
	Plume Edge	4.40E+01	3.38E+01	3	3.85E+04	4.35E+03	4.35E+03	6.09E+03	6.09E+03	<25
400 feet	Centerline	3.22E+03	2.48E+03	196	1.74E+06	1.96E+05	1.96E+05	2.75E+05	2.75E+05	7.64E+01
	Mid Centerline	1.93E+03	1.49E+03	117	1.04E+06	1.18E+05	1.18E+05	1.65E+05	1.65E+05	4.58E+01
	Plume Edge	3.22E+01	2.48E+01	2	1.74E+04	1.96E+03	1.96E+03	2.75E+03	2.75E+03	<25
800 feet	Centerline	2.15E+03	1.65E+03	133	7.73E+05	8.74E+04	8.74E+04	1.22E+05	1.22E+05	3.40E+01
	Mid Centerline	1.29E+03	9.90E+02	80	4.64E+05	5.24E+04	5.24E+04	7.34E+04	7.34E+04	<25
	Plume Edge	2.15E+01	1.65E+01	1	7.73E+03	8.74E+02	8.74E+02	1.22E+03	1.22E+03	<25
1200 feet	Centerline	1.61E+03	1.24E+03	100	4.50E+05	5.08E+04	5.08E+04	7.12E+04	7.12E+04	<25
	Mid Centerline	9.64E+02	7.41E+02	60	2.70E+05	3.05E+04	3.05E+04	4.27E+04	4.27E+04	<25
	Plume Edge	1.61E+01	1.24E+01	1	4.50E+03	5.08E+02	5.08E+02	7.12E+02	7.12E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:15	04:15	3 inches/10 cm		3ft/1 Meter		5 Ft					14C Pancake probe ncpm/100 cm2	mr/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
0.75	Centerline	6.54E+02	5.03E+02	5.86E+02	4.51E+02	5.82E+02	4.48E+02	3.71E+01	7.64E+03	8.64E+03	1.21E+04	<25
	Mid Centerline	3.92E+02	3.02E+02	3.52E+02	2.70E+02	3.49E+02	2.69E+02	2.22E+01	4.58E+03	5.18E+03	7.26E+03	<25
	Plume Edge	6.54E+00	5.03E+00	5.86E+00	4.51E+00	5.82E+00	4.48E+00	<1	7.64E+01	8.64E+01	1.21E+02	<25
1	Centerline	4.52E+02	3.48E+02	4.11E+02	3.16E+02	4.09E+02	3.15E+02	2.61E+01	4.62E+03	5.23E+03	7.32E+03	<25
	Mid Centerline	2.71E+02	2.09E+02	2.47E+02	1.90E+02	2.45E+02	1.89E+02	1.56E+01	2.77E+03	3.14E+03	4.39E+03	<25
	Plume Edge	4.52E+00	3.48E+00	4.11E+00	3.16E+00	4.09E+00	3.15E+00	<1	4.62E+01	5.23E+01	7.32E+01	<25
2	Centerline	1.62E+02	1.25E+02	1.50E+02	1.16E+02	1.50E+02	1.15E+02	9.55E+00	1.31E+03	1.48E+03	2.08E+03	<25
	Mid Centerline	9.72E+01	7.48E+01	9.02E+01	6.94E+01	8.98E+01	6.91E+01	5.73E+00	7.87E+02	8.90E+02	1.25E+03	<25
	Plume Edge	1.62E+00	1.25E+00	1.50E+00	1.16E+00	1.50E+00	1.15E+00	<1	<25	<25	<25	<25
3	Centerline	8.34E+01	6.42E+01	7.79E+01	5.99E+01	7.76E+01	5.97E+01	4.95E+00	8.55E+02	9.67E+02	9.88E+02	<25
	Mid Centerline	5.01E+01	3.85E+01	4.67E+01	3.59E+01	4.65E+01	3.58E+01	2.97E+00	5.13E+02	5.80E+02	5.93E+02	<25
	Plume Edge	8.34E-01	6.42E-01	7.79E-01	5.99E-01	7.76E-01	5.97E-01	<1	<25	<25	<25	<25
4	Centerline	6.59E+01	5.07E+01	6.20E+01	4.77E+01	6.18E+01	4.76E+01	3.95E+00	1.58E+04	1.79E+04	6.05E+02	<25
	Mid Centerline	3.96E+01	3.04E+01	3.72E+01	2.86E+01	3.71E+01	2.85E+01	2.37E+00	9.50E+03	1.07E+04	3.63E+02	<25
	Plume Edge	6.59E-01	5.07E-01	6.20E-01	4.77E-01	6.18E-01	4.76E-01	<1	1.58E+02	1.79E+02	<25	<25
5	Centerline	5.12E+01	3.94E+01	4.83E+01	3.72E+01	4.81E+01	3.70E+01	3.07E+00	1.76E+04	1.99E+04	4.13E+02	<25
	Mid Centerline	3.07E+01	2.36E+01	2.90E+01	2.23E+01	2.89E+01	2.22E+01	1.84E+00	1.06E+04	1.20E+04	2.48E+02	<25
	Plume Edge	5.12E-01	3.94E-01	4.83E-01	3.72E-01	4.81E-01	3.70E-01	<1	1.76E+02	1.99E+02	<25	<25
6	Centerline	3.56E+01	2.74E+01	3.37E+01	2.59E+01	3.36E+01	2.58E+01	2.14E+00	1.21E+04	1.37E+04	2.84E+02	<25
	Mid Centerline	2.14E+01	1.65E+01	2.02E+01	1.55E+01	2.01E+01	1.55E+01	1.29E+00	7.27E+03	8.22E+03	1.70E+02	<25
	Plume Edge	3.56E-01	2.74E-01	3.37E-01	2.59E-01	3.36E-01	2.58E-01	<1	1.21E+02	1.37E+02	<25	<25
7	Centerline	2.30E+01	1.77E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.39E+00	7.49E+03	8.46E+03	1.75E+02	<25
	Mid Centerline	1.38E+01	1.06E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	4.49E+03	5.08E+03	1.05E+02	<25
	Plume Edge	2.30E-01	1.77E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	7.49E+01	8.46E+01	<25	<25
8	Centerline	5.50E+00	4.23E+00	5.14E+00	3.95E+00	5.12E+00	3.94E+00	<1	2.24E+03	2.54E+03	5.25E+01	<25
	Mid Centerline	3.30E+00	2.54E+00	3.08E+00	2.37E+00	3.07E+00	2.36E+00	<1	1.35E+03	1.52E+03	3.15E+01	<25
	Plume Edge	5.50E-02	as read	5.14E-02	as read	5.12E-02	as read	<1	<25	2.54E+01	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:15	04:15	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mR/hr per smear
	Centerline	7.10E-02	5.46E-02	5.25E-02	as read	5.14E-02	as read	1	1.14E+02	1.29E+02	<25	<25
9	Mid Centerline	as read	as read	as read	as read	as read	as read	1	6.83E+01	7.72E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
10	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
15	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
20	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
25	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
30	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:15	04:15	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
0.75	Centerline	6.54E+02	5.03E+02	5.86E+02	4.51E+02	5.82E+02	4.48E+02	3.71E+01	7.64E+04	8.64E+03	8.64E+03	1.21E+04	1.21E+04	<25	
	Mid Centerline	3.92E+02	3.02E+02	3.52E+02	2.70E+02	3.49E+02	2.69E+02	2.22E+01	4.58E+04	5.18E+03	5.18E+03	7.26E+03	7.26E+03	<25	
	Plume Edge	6.54E+00	5.03E+00	5.86E+00	4.51E+00	5.82E+00	4.48E+00	<1	7.64E+02	8.64E+01	8.64E+01	1.21E+02	1.21E+02	<25	
1	Centerline	4.52E+02	3.48E+02	4.11E+02	3.16E+02	4.09E+02	3.15E+02	2.61E+01	4.62E+04	5.23E+03	5.23E+03	7.32E+03	7.32E+03	<25	
	Mid Centerline	2.71E+02	2.09E+02	2.47E+02	1.90E+02	2.45E+02	1.89E+02	1.56E+01	2.77E+04	3.14E+03	3.14E+03	4.39E+03	4.39E+03	<25	
	Plume Edge	4.52E+00	3.48E+00	4.11E+00	3.16E+00	4.09E+00	3.15E+00	<1	4.62E+02	5.23E+01	5.23E+01	7.32E+01	7.32E+01	<25	
2	Centerline	1.62E+02	1.25E+02	1.50E+02	1.16E+02	1.50E+02	1.15E+02	9.55E+00	1.31E+04	1.48E+03	1.48E+03	2.08E+03	2.08E+03	<25	
	Mid Centerline	9.72E+01	7.48E+01	9.02E+01	6.94E+01	8.98E+01	6.91E+01	5.73E+00	7.87E+03	8.90E+02	8.90E+02	1.25E+03	1.25E+03	<25	
	Plume Edge	1.62E+00	1.25E+00	1.50E+00	1.16E+00	1.50E+00	1.15E+00	<1	1.31E+02	<25	<25	<25	<25	<25	
3	Centerline	8.34E+01	6.42E+01	7.79E+01	5.99E+01	7.76E+01	5.97E+01	4.95E+00	8.55E+03	9.67E+02	9.67E+02	9.88E+02	9.88E+02	<25	
	Mid Centerline	5.01E+01	3.85E+01	4.67E+01	3.59E+01	4.65E+01	3.58E+01	2.97E+00	5.13E+03	5.80E+02	5.80E+02	5.93E+02	5.93E+02	<25	
	Plume Edge	8.34E-01	6.42E-01	7.79E-01	5.99E-01	7.76E-01	5.97E-01	<1	8.55E+01	<25	<25	<25	<25	<25	
4	Centerline	6.59E+01	5.07E+01	6.20E+01	4.77E+01	6.18E+01	4.76E+01	3.95E+00	1.58E+05	1.79E+04	1.79E+04	6.05E+02	6.05E+02	<25	
	Mid Centerline	3.96E+01	3.04E+01	3.72E+01	2.86E+01	3.71E+01	2.85E+01	2.37E+00	9.50E+04	1.07E+04	1.07E+04	3.63E+02	3.63E+02	<25	
	Plume Edge	6.59E-01	5.07E-01	6.20E-01	4.77E-01	6.18E-01	4.76E-01	<1	1.58E+03	1.79E+02	1.79E+02	<25	<25	<25	
5	Centerline	5.12E+01	3.94E+01	4.83E+01	3.72E+01	4.81E+01	3.70E+01	3.07E+00	1.76E+05	1.99E+04	1.99E+04	4.13E+02	4.13E+02	<25	
	Mid Centerline	3.07E+01	2.36E+01	2.90E+01	2.23E+01	2.89E+01	2.22E+01	1.84E+00	1.06E+05	1.20E+04	1.20E+04	2.48E+02	2.48E+02	<25	
	Plume Edge	5.12E-01	3.94E-01	4.83E-01	3.72E-01	4.81E-01	3.70E-01	<1	1.76E+03	1.99E+02	1.99E+02	<25	<25	<25	
6	Centerline	3.56E+01	2.74E+01	3.37E+01	2.59E+01	3.36E+01	2.58E+01	2.14E+00	1.21E+05	1.37E+04	1.37E+04	2.84E+02	2.84E+02	<25	
	Mid Centerline	2.14E+01	1.65E+01	2.02E+01	1.55E+01	2.01E+01	1.55E+01	1.29E+00	7.27E+04	8.22E+03	8.22E+03	1.70E+02	1.70E+02	<25	
	Plume Edge	3.56E-01	2.74E-01	3.37E-01	2.59E-01	3.36E-01	2.58E-01	<1	1.21E+03	1.37E+02	1.37E+02	<25	<25	<25	
7	Centerline	2.30E+01	1.77E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.39E+00	7.49E+04	8.46E+03	8.46E+03	1.75E+02	1.75E+02	<25	
	Mid Centerline	1.38E+01	1.06E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	4.49E+04	5.08E+03	5.08E+03	1.05E+02	1.05E+02	<25	
	Plume Edge	2.30E-01	1.77E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	7.49E+02	8.46E+01	8.46E+01	<25	<25	<25	
8	Centerline	5.50E+00	4.23E+00	5.14E+00	3.95E+00	5.12E+00	3.94E+00	<1	2.24E+04	2.54E+03	2.54E+03	5.25E+01	5.25E+01	<25	
	Mid Centerline	3.30E+00	2.54E+00	3.08E+00	2.37E+00	3.07E+00	2.36E+00	<1	1.35E+04	1.52E+03	1.52E+03	3.15E+01	3.15E+01	<25	
	Plume Edge	5.50E-02	as read	5.14E-02	as read	5.12E-02	as read	<1	2.24E+02	2.54E+01	2.54E+01	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

2003 Exercise

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:15	04:15	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ucpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
	Centerline	7.10E-02	5.46E-02	5.25E-02	as read	5.14E-02	as read	<1	1.14E+03	1.29E+02	1.29E+02	<25	<25	<25	
9	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	6.83E+02	7.72E+01	7.72E+01	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
10	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
15	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
20	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
25	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 11:15	Drill Time 04:15	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine uCi/cc	Ion Chamber mRem/hr	E-140 mRem/hr	Part. uCi/cc	Ion Chamber mRem/hr	E-140 mRem/hr
		mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed							
Miles	Plume Location													
0.75	Centerline	6.54E+02	5.03E+02	5.86E+02	4.51E+02	5.82E+02	4.48E+02	3.71E+01	1.21E-07	0.04	0.11	1.37E-07	1.47	6.00
	Mid Centerline	3.92E+02	3.02E+02	3.52E+02	2.70E+02	3.49E+02	2.69E+02	2.22E+01	7.29E-08	0.02	0.07	8.24E-08	0.88	3.60
	Plume Edge	6.54E+00	5.03E+00	5.86E+00	4.51E+00	5.82E+00	4.48E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.06
1	Centerline	4.52E+02	3.48E+02	4.11E+02	3.16E+02	4.09E+02	3.15E+02	2.61E+01	7.35E-08	0.02	0.07	8.31E-08	0.89	3.63
	Mid Centerline	2.71E+02	2.09E+02	2.47E+02	1.90E+02	2.45E+02	1.89E+02	1.56E+01	4.41E-08	0.01	0.04	4.98E-08	0.53	2.18
	Plume Edge	4.52E+00	3.48E+00	4.11E+00	3.16E+00	4.09E+00	3.15E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.04
2	Centerline	1.62E+02	1.25E+02	1.50E+02	1.16E+02	1.50E+02	1.15E+02	9.55E+00	2.09E-08	<0.01	0.02	2.36E-08	0.25	1.03
	Mid Centerline	9.72E+01	7.48E+01	9.02E+01	6.94E+01	8.98E+01	6.91E+01	5.73E+00	1.25E-08	<0.01	0.01	1.42E-08	0.15	0.62
	Plume Edge	1.62E+00	1.25E+00	1.50E+00	1.16E+00	1.50E+00	1.15E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.01
3	Centerline	8.34E+01	6.42E+01	7.79E+01	5.99E+01	7.76E+01	5.97E+01	4.95E+00	1.36E-08	<0.01	0.01	1.54E-08	0.16	0.67
	Mid Centerline	5.01E+01	3.85E+01	4.67E+01	3.59E+01	4.65E+01	3.58E+01	2.97E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	0.10	0.40
	Plume Edge	8.34E-01	6.42E-01	7.79E-01	5.99E-01	7.76E-01	5.97E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	6.59E+01	5.07E+01	6.20E+01	4.77E+01	6.18E+01	4.76E+01	3.95E+00	2.52E-07	0.08	0.22	2.84E-07	3.04	12.42
	Mid Centerline	3.96E+01	3.04E+01	3.72E+01	2.86E+01	3.71E+01	2.85E+01	2.37E+00	1.51E-07	0.05	0.13	1.71E-07	1.82	7.45
	Plume Edge	6.59E-01	5.07E-01	6.20E-01	4.77E-01	6.18E-01	4.76E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.12
5	Centerline	5.12E+01	3.94E+01	4.83E+01	3.72E+01	4.81E+01	3.70E+01	3.07E+00	2.80E-07	0.09	0.25	3.17E-07	3.39	13.85
	Mid Centerline	3.07E+01	2.36E+01	2.90E+01	2.23E+01	2.89E+01	2.22E+01	1.84E+00	1.68E-07	0.05	0.15	1.90E-07	2.03	8.31
	Plume Edge	5.12E-01	3.94E-01	4.83E-01	3.72E-01	4.81E-01	3.70E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.14
6	Centerline	3.56E+01	2.74E+01	3.37E+01	2.59E+01	3.36E+01	2.58E+01	2.14E+00	1.93E-07	0.06	0.17	2.18E-07	2.33	9.51
	Mid Centerline	2.14E+01	1.65E+01	2.02E+01	1.55E+01	2.01E+01	1.55E+01	1.29E+00	1.16E-07	0.04	0.10	1.31E-07	1.40	5.71
	Plume Edge	3.56E-01	2.74E-01	3.37E-01	2.59E-01	3.36E-01	2.58E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.10
7	Centerline	2.30E+01	1.77E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.39E+00	1.19E-07	0.04	0.11	1.35E-07	1.44	5.88
	Mid Centerline	1.38E+01	1.06E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	7.14E-08	0.02	0.06	8.08E-08	0.86	3.53
	Plume Edge	2.30E-01	1.77E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.06
8	Centerline	5.50E+00	4.23E+00	5.14E+00	3.95E+00	5.12E+00	3.94E+00	<1	3.57E-08	0.01	0.03	4.03E-08	0.43	1.76
	Mid Centerline	3.30E+00	2.54E+00	3.08E+00	2.37E+00	3.07E+00	2.36E+00	<1	2.14E-08	<0.01	0.02	2.42E-08	0.26	1.06
	Plume Edge	5.50E-02	4.23E-02	5.14E-02	3.95E-02	5.12E-02	3.94E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.02

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 11:15	Drill Time 04:15	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 Inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	7.10E-02	5.46E-02	5.25E-02	4.04E-02	5.14E-02	3.96E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.09
	Mid Centerline	4.26E-02	3.28E-02	3.15E-02	2.42E-02	3.09E-02	2.37E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.05
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
10	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01



# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:30	04:30	3 inches/10 cm		30/I Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	3.16E+02	2.43E+02	2.53E+02	1.95E+02	2.50E+02	1.92E+02	1.58E+01	<25	<25	<25	3.76E+01	2.82E+01	<25	1.17E+04	<25
	Mid Centerline	1.90E+02	1.46E+02	1.52E+02	1.17E+02	1.50E+02	1.15E+02	9.48E+00	<25	<25	<25	<25	<25	<25	7.02E+03	<25
	Plume Edge	3.16E+00	2.43E+00	2.53E+00	1.95E+00	2.50E+00	1.92E+00	<1	<25	<25	<25	<25	<25	<25	1.17E+02	<25
1	Centerline	2.16E+02	1.66E+02	1.78E+02	1.37E+02	1.75E+02	1.35E+02	1.11E+01	<25	<25	<25	<25	<25	<25	7.08E+03	<25
	Mid Centerline	1.29E+02	9.96E+01	1.07E+02	8.20E+01	1.05E+02	8.10E+01	6.66E+00	<25	<25	<25	<25	<25	<25	4.25E+03	<25
	Plume Edge	2.16E+00	1.66E+00	1.78E+00	1.37E+00	1.75E+00	1.35E+00	<1	<25	<25	<25	<25	<25	<25	7.08E+01	<25
2	Centerline	7.55E+01	5.81E+01	6.47E+01	4.98E+01	6.41E+01	4.93E+01	4.07E+00	<25	<25	<25	<25	<25	<25	2.01E+03	<25
	Mid Centerline	4.53E+01	3.49E+01	3.88E+01	2.99E+01	3.85E+01	2.96E+01	2.44E+00	<25	<25	<25	<25	<25	<25	1.21E+03	<25
	Plume Edge	7.55E-01	5.81E-01	6.47E-01	4.98E-01	6.41E-01	4.93E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	3.87E+01	2.97E+01	3.35E+01	2.58E+01	3.32E+01	2.56E+01	2.11E+00	<25	<25	<25	<25	<25	<25	9.56E+02	<25
	Mid Centerline	2.32E+01	1.78E+01	2.01E+01	1.55E+01	1.99E+01	1.53E+01	1.27E+00	<25	<25	<25	<25	<25	<25	5.73E+02	<25
	Plume Edge	3.87E-01	2.97E-01	3.35E-01	2.58E-01	3.32E-01	2.56E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	3.99E+01	3.07E+01	3.63E+01	2.79E+01	3.61E+01	2.77E+01	2.30E+00	<25	<25	<25	5.17E+02	3.88E+02	1.03E+02	5.92E+02	<25
	Mid Centerline	2.40E+01	1.84E+01	2.18E+01	1.67E+01	2.16E+01	1.66E+01	1.38E+00	<25	<25	<25	3.10E+02	2.33E+02	6.20E+01	3.55E+02	<25
	Plume Edge	3.99E-01	3.07E-01	3.63E-01	2.79E-01	3.61E-01	2.77E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	3.39E+01	2.61E+01	3.12E+01	2.40E+01	3.11E+01	2.39E+01	1.98E+00	<25	<25	<25	5.82E+02	4.36E+02	1.16E+02	4.07E+02	<25
	Mid Centerline	2.04E+01	1.57E+01	1.87E+01	1.44E+01	1.86E+01	1.43E+01	1.19E+00	<25	<25	<25	3.49E+02	2.62E+02	6.98E+01	2.44E+02	<25
	Plume Edge	3.39E-01	2.61E-01	3.12E-01	2.40E-01	3.11E-01	2.39E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2.37E+01	1.82E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.38E+00	<25	<25	<25	5.44E+02	4.08E+02	1.09E+02	2.81E+02	<25
	Mid Centerline	1.42E+01	1.09E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	<25	<25	<25	3.26E+02	2.45E+02	6.53E+01	1.69E+02	<25
	Plume Edge	2.37E-01	1.82E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	1.78E+01	1.37E+01	1.64E+01	1.26E+01	1.63E+01	1.26E+01	1.04E+00	2.84E+01	2.84E+01	<25	3.22E+03	2.41E+03	6.44E+02	2.03E+02	<25
	Mid Centerline	1.07E+01	8.22E+00	9.86E+00	7.58E+00	9.81E+00	7.55E+00	<1	<25	<25	<25	1.93E+03	1.45E+03	3.86E+02	1.22E+02	<25
	Plume Edge	1.78E-01	1.37E-01	1.64E-01	1.26E-01	1.63E-01	1.26E-01	<1	<25	<25	<25	3.22E+01	<25	<25	<25	<25
8	Centerline	1.77E+01	1.36E+01	1.65E+01	1.27E+01	1.64E+01	1.27E+01	1.05E+00	9.56E+01	9.56E+01	<25	1.09E+04	8.14E+03	2.17E+03	1.63E+02	<25
	Mid Centerline	1.06E+01	8.18E+00	9.91E+00	7.62E+00	9.87E+00	7.59E+00	<1	5.74E+01	5.74E+01	<25	6.51E+03	4.88E+03	1.30E+03	9.79E+01	<25
	Plume Edge	1.77E-01	1.36E-01	1.65E-01	1.27E-01	1.64E-01	1.27E-01	<1	<25	<25	<25	1.09E+02	8.14E+01	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Read Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:30	04:30	3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
9	Centerline	1.60E+01	1.23E+01	1.50E+01	1.15E+01	1.49E+01	1.15E+01	<1	1.11E+02	1.11E+02	<25	1.26E+04	9.47E+03	2.53E+03	1.33E+02	<25
	Mid Centerline	9.59E+00	7.37E+00	8.97E+00	6.90E+00	8.94E+00	6.88E+00	<1	6.68E+01	6.68E+01	<25	7.58E+03	5.68E+03	1.52E+03	7.99E+01	<25
	Plume Edge	1.60E-01	1.23E-01	1.50E-01	1.15E-01	1.49E-01	1.15E-01	<1	<25	<25	<25	1.26E+02	9.47E+01	2.53E+01	<25	<25
10	Centerline	1.22E+01	9.40E+00	1.15E+01	8.81E+00	1.14E+01	8.78E+00	<1	8.48E+01	8.48E+01	<25	9.62E+03	7.21E+03	1.92E+03	9.95E+01	<25
	Mid Centerline	7.33E+00	5.64E+00	6.87E+00	5.29E+00	6.85E+00	5.27E+00	<1	5.09E+01	5.09E+01	<25	5.77E+03	4.33E+03	1.15E+03	5.97E+01	<25
	Plume Edge	1.22E-01	9.40E-02	1.15E-01	8.81E-02	1.14E-01	8.78E-02	<1	<25	<25	<25	9.62E+01	7.21E+01	<25	<25	<25
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:30	04:30	3M1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	4.46E+03	3.43E+03	217	2.55E+04	2.89E+03	2.89E+03	1.80E+06	1.80E+06	5.00E+02
	Mid Centerline	2.68E+03	2.06E+03	130	1.53E+04	1.74E+03	1.74E+03	1.08E+06	1.08E+06	3.00E+02
	Plume Edge	4.46E+01	3.43E+01	2	2.55E+02	2.89E+01	2.89E+01	1.80E+04	1.80E+04	<25
200 feet	Centerline	2.58E+03	1.98E+03	137	1.04E+04	1.18E+03	1.18E+03	7.36E+05	7.36E+05	2.05E+02
	Mid Centerline	1.55E+03	1.19E+03	82	6.26E+03	7.10E+02	7.10E+02	4.42E+05	4.42E+05	1.23E+02
	Plume Edge	2.58E+01	1.98E+01	1	1.04E+02	<25	<25	7.36E+03	7.36E+03	<25
400 feet	Centerline	1.82E+03	1.40E+03	104	4.71E+03	5.34E+02	5.34E+02	3.32E+05	3.32E+05	9.23E+01
	Mid Centerline	1.09E+03	8.42E+02	63	2.82E+03	3.20E+02	3.20E+02	1.99E+05	1.99E+05	5.54E+01
	Plume Edge	1.82E+01	1.40E+01	1	4.71E+01	<25	<25	3.32E+03	3.32E+03	<25
800 feet	Centerline	1.19E+03	9.16E+02	71	2.10E+03	2.38E+02	2.38E+02	1.48E+05	1.48E+05	4.11E+01
	Mid Centerline	7.14E+02	5.49E+02	42	1.26E+03	1.43E+02	1.43E+02	8.88E+04	8.88E+04	<25
	Plume Edge	1.19E+01	9.16E+00	<1	<25	<25	<25	1.48E+03	1.48E+03	<25
1200 feet	Centerline	8.83E+02	6.80E+02	53	1.22E+03	1.38E+02	1.38E+02	8.60E+04	8.60E+04	<25
	Mid Centerline	5.30E+02	4.08E+02	32	7.32E+02	8.30E+01	8.30E+01	5.16E+04	5.16E+04	<25
	Plume Edge	8.83E+00	6.80E+00	<1	<25	<25	<25	8.60E+02	8.60E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:30	04:30	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	3.57E+03	2.75E+03	174	2.04E+04	2.31E+03	2.31E+03	1.44E+06	1.44E+06	4.00E+02
	Mid Centerline	2.14E+03	1.65E+03	104	1.22E+04	1.39E+03	1.39E+03	8.63E+05	8.63E+05	2.40E+02
	Plume Edge	3.57E+01	2.75E+01	2	2.04E+02	<25	<25	1.44E+04	1.44E+04	<25
200 feet	Centerline	2.06E+03	1.59E+03	110	8.35E+03	9.47E+02	9.47E+02	5.89E+05	5.89E+05	1.64E+02
	Mid Centerline	1.24E+03	9.53E+02	66	5.01E+03	5.68E+02	5.68E+02	3.53E+05	3.53E+05	9.82E+01
	Plume Edge	2.06E+01	1.59E+01	1	8.35E+01	<25	<25	5.89E+03	5.89E+03	<25
400 feet	Centerline	1.46E+03	1.12E+03	83	3.77E+03	4.27E+02	4.27E+02	2.66E+05	2.66E+05	7.39E+01
	Mid Centerline	8.76E+02	6.74E+02	50	2.26E+03	2.56E+02	2.56E+02	1.59E+05	1.59E+05	4.43E+01
	Plume Edge	1.46E+01	1.12E+01	<1	3.77E+01	<25	<25	2.66E+03	2.66E+03	<25
800 feet	Centerline	9.52E+02	7.33E+02	56	1.68E+03	1.90E+02	1.90E+02	1.18E+05	1.18E+05	3.29E+01
	Mid Centerline	5.71E+02	4.40E+02	34	1.01E+03	1.14E+02	1.14E+02	7.10E+04	7.10E+04	<25
	Plume Edge	9.52E+00	7.33E+00	<1	<25	<25	<25	1.18E+03	1.18E+03	<25
1200 feet	Centerline	7.07E+02	5.44E+02	43	9.76E+02	1.11E+02	1.11E+02	6.88E+04	6.88E+04	<25
	Mid Centerline	4.24E+02	3.26E+02	26	5.85E+02	6.64E+01	6.64E+01	4.13E+04	4.13E+04	<25
	Plume Edge	7.07E+00	5.44E+00	<1	<25	<25	<25	6.88E+02	6.88E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:30	04:30	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
0.75	Centerline	3.16E+02	2.43E+02	2.53E+02	1.95E+02	2.50E+02	1.92E+02	1.58E+01	<25	<25	1.17E+04	<25
	Mid Centerline	1.90E+02	1.46E+02	1.52E+02	1.17E+02	1.50E+02	1.15E+02	9.48E+00	<25	<25	7.02E+03	<25
	Plume Edge	3.16E+00	2.43E+00	2.53E+00	1.95E+00	2.50E+00	1.92E+00	1	<25	<25	1.17E+02	<25
1	Centerline	2.16E+02	1.66E+02	1.78E+02	1.37E+02	1.75E+02	1.35E+02	1.11E+01	<25	<25	7.08E+03	<25
	Mid Centerline	1.29E+02	9.96E+01	1.07E+02	8.20E+01	1.05E+02	8.10E+01	6.66E+00	<25	<25	4.25E+03	<25
	Plume Edge	2.16E+00	1.66E+00	1.78E+00	1.37E+00	1.75E+00	1.35E+00	1	<25	<25	7.08E+01	<25
2	Centerline	7.55E+01	5.81E+01	6.47E+01	4.98E+01	6.41E+01	4.93E+01	4.07E+00	<25	<25	2.01E+03	<25
	Mid Centerline	4.53E+01	3.49E+01	3.88E+01	2.99E+01	3.85E+01	2.96E+01	2.44E+00	<25	<25	1.21E+03	<25
	Plume Edge	7.55E-01	5.81E-01	6.47E-01	4.98E-01	6.41E-01	4.93E-01	1	<25	<25	<25	<25
3	Centerline	3.87E+01	2.97E+01	3.35E+01	2.58E+01	3.32E+01	2.56E+01	2.11E+00	<25	<25	9.56E+02	<25
	Mid Centerline	2.32E+01	1.78E+01	2.01E+01	1.55E+01	1.99E+01	1.53E+01	1.27E+00	<25	<25	5.73E+02	<25
	Plume Edge	3.87E-01	2.97E-01	3.35E-01	2.58E-01	3.32E-01	2.56E-01	1	<25	<25	<25	<25
4	Centerline	3.99E+01	3.07E+01	3.63E+01	2.79E+01	3.61E+01	2.77E+01	2.30E+00	2.28E+02	2.58E+02	5.92E+02	<25
	Mid Centerline	2.40E+01	1.84E+01	2.18E+01	1.67E+01	2.16E+01	1.66E+01	1.38E+00	1.37E+02	1.55E+02	3.55E+02	<25
	Plume Edge	3.99E-01	3.07E-01	3.63E-01	2.79E-01	3.61E-01	2.77E-01	1	<25	<25	<25	<25
5	Centerline	3.39E+01	2.61E+01	3.12E+01	2.40E+01	3.11E+01	2.39E+01	1.98E+00	2.56E+02	2.91E+02	4.07E+02	<25
	Mid Centerline	2.04E+01	1.57E+01	1.87E+01	1.44E+01	1.86E+01	1.43E+01	1.19E+00	1.54E+02	1.74E+02	2.44E+02	<25
	Plume Edge	3.39E-01	2.61E-01	3.12E-01	2.40E-01	3.11E-01	2.39E-01	1	<25	<25	<25	<25
6	Centerline	2.37E+01	1.82E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.38E+00	2.40E+02	2.72E+02	2.81E+02	<25
	Mid Centerline	1.42E+01	1.09E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	1	1.44E+02	1.63E+02	1.69E+02	<25
	Plume Edge	2.37E-01	1.82E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	1	<25	<25	<25	<25
7	Centerline	1.78E+01	1.37E+01	1.64E+01	1.26E+01	1.63E+01	1.26E+01	1.04E+00	1.42E+03	1.61E+03	2.03E+02	<25
	Mid Centerline	1.07E+01	8.22E+00	9.86E+00	7.58E+00	9.81E+00	7.55E+00	1	8.51E+02	9.65E+02	1.22E+02	<25
	Plume Edge	1.78E-01	1.37E-01	1.64E-01	1.26E-01	1.63E-01	1.26E-01	1	<25	<25	<25	<25
8	Centerline	1.77E+01	1.36E+01	1.65E+01	1.27E+01	1.64E+01	1.27E+01	1.05E+00	4.78E+03	5.43E+03	1.63E+02	<25
	Mid Centerline	1.06E+01	8.18E+00	9.91E+00	7.62E+00	9.87E+00	7.59E+00	1	2.87E+03	3.26E+03	9.79E+01	<25
	Plume Edge	1.77E-01	1.36E-01	1.65E-01	1.27E-01	1.64E-01	1.27E-01	1	4.78E+01	5.43E+01	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:30	04:30	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	1.60E+01	1.23E+01	1.50E+01	1.15E+01	1.49E+01	1.15E+01	1	5.57E+03	6.32E+03	1.33E+02	<25
9	Mid Centerline	9.59E+00	7.37E+00	8.97E+00	6.90E+00	8.94E+00	6.88E+00	1	3.34E+03	3.79E+03	7.99E+01	<25
	Plume Edge	2	2	2	2	2	2	1	5.57E+01	6.32E+01	<25	<25
	Centerline	1.22E+01	9.40E+00	1.15E+01	8.81E+00	1.14E+01	8.78E+00	<1	4.24E+03	4.81E+03	9.95E+01	<25
10	Mid Centerline	7.33E+00	5.64E+00	6.87E+00	5.29E+00	6.85E+00	5.27E+00	<1	2.54E+03	2.89E+03	5.97E+01	<25
	Plume Edge	1.22E-01	9.40E-02	1.15E-01	8.81E-02	1.14E-01	8.78E-02	<1	4.24E+01	4.81E+01	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
15	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
20	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
25	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:30	04:30	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
0.75	Centerline	3.16E+02	2.43E+02	2.53E+02	1.95E+02	2.50E+02	1.92E+02	1.58E+01	1.66E+02	<25	<25	1.17E+04	1.17E+04	<25	
	Mid Centerline	1.90E+02	1.46E+02	1.52E+02	1.17E+02	1.50E+02	1.15E+02	9.48E+00	9.95E+01	<25	<25	7.02E+03	7.02E+03	<25	
	Plume Edge	3.16E+00	2.43E+00	2.53E+00	1.95E+00	2.50E+00	1.92E+00	<1	<25	<25	<25	1.17E+02	1.17E+02	<25	
1	Centerline	2.16E+02	1.66E+02	1.78E+02	1.37E+02	1.75E+02	1.35E+02	1.11E+01	1.00E+02	<25	<25	7.08E+03	7.08E+03	<25	
	Mid Centerline	1.29E+02	9.96E+01	1.07E+02	8.20E+01	1.05E+02	8.10E+01	6.66E+00	6.02E+01	<25	<25	4.25E+03	4.25E+03	<25	
	Plume Edge	2.16E+00	1.66E+00	1.78E+00	1.37E+00	1.75E+00	1.35E+00	<1	<25	<25	<25	7.08E+01	7.08E+01	<25	
2	Centerline	7.55E+01	5.81E+01	6.47E+01	4.98E+01	6.41E+01	4.93E+01	4.07E+00	2.85E+01	<25	<25	2.01E+03	2.01E+03	<25	
	Mid Centerline	4.53E+01	3.49E+01	3.88E+01	2.99E+01	3.85E+01	2.96E+01	2.44E+00	<25	<25	<25	1.21E+03	1.21E+03	<25	
	Plume Edge	7.55E-01	5.81E-01	6.47E-01	4.98E-01	6.41E-01	4.93E-01	<1	<25	<25	<25	<25	<25	<25	
3	Centerline	3.87E+01	2.97E+01	3.35E+01	2.58E+01	3.32E+01	2.56E+01	2.11E+00	4.75E+01	<25	<25	9.56E+02	9.56E+02	<25	
	Mid Centerline	2.32E+01	1.78E+01	2.01E+01	1.55E+01	1.99E+01	1.53E+01	1.27E+00	2.85E+01	<25	<25	5.73E+02	5.73E+02	<25	
	Plume Edge	3.87E-01	2.97E-01	3.35E-01	2.58E-01	3.32E-01	2.56E-01	<1	<25	<25	<25	<25	<25	<25	
4	Centerline	3.99E+01	3.07E+01	3.63E+01	2.79E+01	3.61E+01	2.77E+01	2.30E+00	2.28E+03	2.58E+02	2.58E+02	5.92E+02	5.92E+02	<25	
	Mid Centerline	2.40E+01	1.84E+01	2.18E+01	1.67E+01	2.16E+01	1.66E+01	1.38E+00	1.37E+03	1.55E+02	1.55E+02	3.55E+02	3.55E+02	<25	
	Plume Edge	3.99E-01	3.07E-01	3.63E-01	2.79E-01	3.61E-01	2.77E-01	<1	<25	<25	<25	<25	<25	<25	
5	Centerline	3.39E+01	2.61E+01	3.12E+01	2.40E+01	3.11E+01	2.39E+01	1.98E+00	2.56E+03	2.91E+02	2.91E+02	4.07E+02	4.07E+02	<25	
	Mid Centerline	2.04E+01	1.57E+01	1.87E+01	1.44E+01	1.86E+01	1.43E+01	1.19E+00	1.54E+03	1.74E+02	1.74E+02	2.44E+02	2.44E+02	<25	
	Plume Edge	3.39E-01	2.61E-01	3.12E-01	2.40E-01	3.11E-01	2.39E-01	<1	2.56E+01	<25	<25	<25	<25	<25	
6	Centerline	2.37E+01	1.82E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.38E+00	2.40E+03	2.72E+02	2.72E+02	2.81E+02	2.81E+02	<25	
	Mid Centerline	1.42E+01	1.09E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	1.44E+03	1.63E+02	1.63E+02	1.69E+02	1.69E+02	<25	
	Plume Edge	2.37E-01	1.82E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	<25	<25	<25	<25	<25	<25	
7	Centerline	1.78E+01	1.37E+01	1.64E+01	1.26E+01	1.63E+01	1.26E+01	1.04E+00	1.42E+04	1.61E+03	1.61E+03	2.03E+02	2.03E+02	<25	
	Mid Centerline	1.07E+01	8.22E+00	9.86E+00	7.58E+00	9.81E+00	7.55E+00	<1	8.51E+03	9.65E+02	9.65E+02	1.22E+02	1.22E+02	<25	
	Plume Edge	1.78E-01	1.37E-01	1.64E-01	1.26E-01	1.63E-01	1.26E-01	<1	1.42E+02	<25	<25	<25	<25	<25	
8	Centerline	1.77E+01	1.36E+01	1.65E+01	1.27E+01	1.64E+01	1.27E+01	1.05E+00	4.78E+04	5.43E+03	5.43E+03	1.63E+02	1.63E+02	<25	
	Mid Centerline	1.06E+01	8.18E+00	9.91E+00	7.62E+00	9.87E+00	7.59E+00	<1	2.87E+04	3.26E+03	3.26E+03	9.79E+01	9.79E+01	<25	
	Plume Edge	1.77E-01	1.36E-01	1.65E-01	1.27E-01	1.64E-01	1.27E-01	<1	4.78E+02	5.43E+01	5.43E+01	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:30	04:30	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
9	Centerline	1.60E+01	1.23E+01	1.50E+01	1.15E+01	1.49E+01	1.15E+01	<1	5.57E+04	6.32E+03	6.32E+03	1.33E+02	1.33E+02	<25	
	Mid Centerline	9.59E+00	7.37E+00	8.97E+00	6.90E+00	8.94E+00	6.88E+00	<1	3.34E+04	3.79E+03	3.79E+03	7.99E+01	7.99E+01	<25	
	Plume Edge	1.60E-01	1.23E-01	1.50E-01	1.15E-01	1.49E-01	1.15E-01	<1	5.57E+02	6.32E+01	6.32E+01	<25	<25	<25	
10	Centerline	1.22E+01	9.40E+00	1.15E+01	8.81E+00	1.14E+01	8.78E+00	<1	4.24E+04	4.81E+03	4.81E+03	9.95E+01	9.95E+01	<25	
	Mid Centerline	7.33E+00	5.64E+00	6.87E+00	5.29E+00	6.85E+00	5.27E+00	<1	2.54E+04	2.89E+03	2.89E+03	5.97E+01	5.97E+01	<25	
	Plume Edge	1.22E-01	9.40E-02	1.15E-01	8.81E-02	1.14E-01	8.78E-02	<1	4.24E+02	4.81E+01	4.81E+01	<25	<25	<25	
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.



Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 11:30	Drill Time 04:30	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	3.16E+02	2.43E+02	2.53E+02	1.95E+02	2.50E+02	1.92E+02	1.58E+01	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.01
	Mid Centerline	1.90E+02	1.46E+02	1.52E+02	1.17E+02	1.50E+02	1.15E+02	9.48E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.16E+00	2.43E+00	2.53E+00	1.95E+00	2.50E+00	1.92E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	2.16E+02	1.66E+02	1.78E+02	1.37E+02	1.75E+02	1.35E+02	1.11E+01	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.29E+02	9.96E+01	1.07E+02	8.20E+01	1.05E+02	8.10E+01	6.66E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.16E+00	1.66E+00	1.78E+00	1.37E+00	1.75E+00	1.35E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	7.55E+01	5.81E+01	6.47E+01	4.98E+01	6.41E+01	4.93E+01	4.07E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	4.53E+01	3.49E+01	3.88E+01	2.99E+01	3.85E+01	2.96E+01	2.44E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	7.55E-01	5.81E-01	6.47E-01	4.98E-01	6.41E-01	4.93E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	3.87E+01	2.97E+01	3.35E+01	2.58E+01	3.32E+01	2.56E+01	2.11E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.32E+01	1.78E+01	2.01E+01	1.55E+01	1.99E+01	1.53E+01	1.27E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.87E-01	2.97E-01	3.35E-01	2.58E-01	3.32E-01	2.56E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	3.99E+01	3.07E+01	3.63E+01	2.79E+01	3.61E+01	2.77E+01	2.30E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	0.04	0.18
	Mid Centerline	2.40E+01	1.84E+01	2.18E+01	1.67E+01	2.16E+01	1.66E+01	1.38E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.11
	Plume Edge	3.99E-01	3.07E-01	3.63E-01	2.79E-01	3.61E-01	2.77E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	3.39E+01	2.61E+01	3.12E+01	2.40E+01	3.11E+01	2.39E+01	1.98E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	0.05	0.20
	Mid Centerline	2.04E+01	1.57E+01	1.87E+01	1.44E+01	1.86E+01	1.43E+01	1.19E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.12
	Plume Edge	3.39E-01	2.61E-01	3.12E-01	2.40E-01	3.11E-01	2.39E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	2.37E+01	1.82E+01	2.18E+01	1.67E+01	2.17E+01	1.67E+01	1.38E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	0.05	0.19
	Mid Centerline	1.42E+01	1.09E+01	1.31E+01	1.00E+01	1.30E+01	1.00E+01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.03	0.11
	Plume Edge	2.37E-01	1.82E-01	2.18E-01	1.67E-01	2.17E-01	1.67E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	1.78E+01	1.37E+01	1.64E+01	1.26E+01	1.63E+01	1.26E+01	1.04E+00	2.26E-08	<0.01	0.02	2.56E-08	0.27	1.12
	Mid Centerline	1.07E+01	8.22E+00	9.86E+00	7.58E+00	9.81E+00	7.55E+00	<1	1.35E-08	<0.01	0.01	1.54E-08	0.16	0.67
	Plume Edge	1.78E-01	1.37E-01	1.64E-01	1.26E-01	1.63E-01	1.26E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.01
8	Centerline	1.77E+01	1.36E+01	1.65E+01	1.27E+01	1.64E+01	1.27E+01	1.05E+00	7.60E-08	0.02	0.07	8.63E-08	0.92	3.77
	Mid Centerline	1.06E+01	8.18E+00	9.91E+00	7.62E+00	9.87E+00	7.59E+00	<1	4.56E-08	0.01	0.04	5.18E-08	0.55	2.26
	Plume Edge	1.77E-01	1.36E-01	1.65E-01	1.27E-01	1.64E-01	1.27E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.04

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 11:30	Drill Time 04:30	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	1.60E+01	1.23E+01	1.50E+01	1.15E+01	1.49E+01	1.15E+01	<1	8.85E-08	0.03	0.08	1.00E-07	1.07	4.38
	Mid Centerline	9.59E+00	7.37E+00	8.97E+00	6.90E+00	8.94E+00	6.88E+00	<1	5.31E-08	0.02	0.05	6.02E-08	0.64	2.63
	Plume Edge	1.60E-01	1.23E-01	1.50E-01	1.15E-01	1.49E-01	1.15E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.04
10	Centerline	1.22E+01	9.40E+00	1.15E+01	8.81E+00	1.14E+01	8.78E+00	<1	6.74E-08	0.02	0.06	7.65E-08	0.82	3.34
	Mid Centerline	7.33E+00	5.64E+00	6.87E+00	5.29E+00	6.85E+00	5.27E+00	<1	4.04E-08	0.01	0.04	4.59E-08	0.49	2.00
	Plume Edge	1.22E-01	9.40E-02	1.15E-01	8.81E-02	1.14E-01	8.78E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.03
15	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:45	04:45	3 inches/10 cm		3R/1 Meter		5 Ft			Contact	SH-4	1.5 Inch	Contact	SH-4	1.5 Inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3		
0.75	Centerline	1.80E+02	1.38E+02	1.21E+02	9.31E+01	1.18E+02	9.06E+01	7.34E+00	<25	<25	<25	<25	<25	<25	1.13E+04	<25
	Mid Centerline	1.08E+02	8.30E+01	7.27E+01	5.59E+01	7.07E+01	5.44E+01	4.40E+00	<25	<25	<25	<25	<25	<25	6.80E+03	<25
	Plume Edge	1.80E+00	1.38E+00	1.21E+00	9.31E-01	1.18E+00	9.06E-01	<1	<25	<25	<25	<25	<25	<25	1.13E+02	<25
1	Centerline	1.20E+02	9.24E+01	8.45E+01	6.50E+01	8.25E+01	6.35E+01	5.16E+00	<25	<25	<25	<25	<25	<25	6.86E+03	<25
	Mid Centerline	7.21E+01	5.54E+01	5.07E+01	3.90E+01	4.95E+01	3.81E+01	3.10E+00	<25	<25	<25	<25	<25	<25	4.11E+03	<25
	Plume Edge	1.20E+00	9.24E-01	8.45E-01	6.50E-01	8.25E-01	6.35E-01	<1	<25	<25	<25	<25	<25	<25	6.86E+01	<25
2	Centerline	4.07E+01	3.13E+01	3.06E+01	2.36E+01	3.01E+01	2.31E+01	1.89E+00	<25	<25	<25	<25	<25	<25	1.95E+03	<25
	Mid Centerline	2.44E+01	1.88E+01	1.84E+01	1.41E+01	1.80E+01	1.39E+01	1.13E+00	<25	<25	<25	<25	<25	<25	1.17E+03	<25
	Plume Edge	4.07E-01	3.13E-01	3.06E-01	2.36E-01	3.01E-01	2.31E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	2.07E+01	1.59E+01	1.58E+01	1.22E+01	1.56E+01	1.20E+01	<1	<25	<25	<25	<25	<25	<25	9.26E+02	<25
	Mid Centerline	1.24E+01	9.53E+00	9.51E+00	7.31E+00	9.35E+00	7.19E+00	<1	<25	<25	<25	<25	<25	<25	5.56E+02	<25
	Plume Edge	2.07E-01	1.59E-01	1.58E-01	1.22E-01	1.56E-01	1.20E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	1.98E+01	1.52E+01	1.64E+01	1.26E+01	1.62E+01	1.25E+01	1.03E+00	<25	<25	<25	<25	<25	<25	5.75E+02	<25
	Mid Centerline	1.19E+01	9.14E+00	9.83E+00	7.56E+00	9.71E+00	7.47E+00	<1	<25	<25	<25	<25	<25	<25	3.45E+02	<25
	Plume Edge	1.98E-01	1.52E-01	1.64E-01	1.26E-01	1.62E-01	1.25E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	1.65E+01	1.27E+01	1.39E+01	1.07E+01	1.38E+01	1.06E+01	<1	<25	<25	<25	<25	<25	<25	3.95E+02	<25
	Mid Centerline	9.88E+00	7.60E+00	8.35E+00	6.43E+00	8.27E+00	6.36E+00	<1	<25	<25	<25	<25	<25	<25	2.37E+02	<25
	Plume Edge	1.65E-01	1.27E-01	1.39E-01	1.07E-01	1.38E-01	1.06E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	1.15E+01	8.83E+00	9.72E+00	7.48E+00	9.62E+00	7.40E+00	<1	<25	<25	<25	<25	<25	<25	2.73E+02	<25
	Mid Centerline	6.89E+00	5.30E+00	5.83E+00	4.49E+00	5.77E+00	4.44E+00	<1	<25	<25	<25	<25	<25	<25	1.64E+02	<25
	Plume Edge	1.15E-01	8.83E-02	9.72E-02	7.48E-02	9.62E-02	7.40E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	9.16E+00	7.05E+00	7.86E+00	6.04E+00	7.78E+00	5.99E+00	<1	<25	<25	<25	4.40E+01	3.30E+01	<25	1.98E+02	<25
	Mid Centerline	5.50E+00	4.23E+00	4.71E+00	3.63E+00	4.67E+00	3.59E+00	<1	<25	<25	<25	2.64E+01	<25	<25	1.19E+02	<25
	Plume Edge	9.16E-02	7.05E-02	7.86E-02	6.04E-02	7.78E-02	5.99E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	1.15E+01	8.81E+00	1.03E+01	7.94E+00	1.03E+01	7.89E+00	<1	<25	<25	<25	1.59E+02	1.19E+02	3.19E+01	1.61E+02	<25
	Mid Centerline	6.87E+00	5.29E+00	6.19E+00	4.76E+00	6.15E+00	4.73E+00	<1	<25	<25	<25	9.56E+01	7.17E+01	<25	9.63E+01	<25
	Plume Edge	1.15E-01	8.81E-02	1.03E-01	7.94E-02	1.03E-01	7.89E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
11:45	04:45	3 inches/10 cm		3U/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
9	Centerline	1.10E+01	8.45E+00	1.00E+01	7.70E+00	9.96E+00	7.66E+00	<1	<25	<25	<25	2.36E+02	1.77E+02	4.72E+01	1.32E+02	<25
	Mid Centerline	6.59E+00	5.07E+00	6.01E+00	4.62E+00	5.97E+00	4.60E+00	<1	<25	<25	<25	1.42E+02	1.06E+02	2.83E+01	7.94E+01	<25
	Plume Edge	1.10E-01	8.45E-02	1.00E-01	7.70E-02	9.96E-02	7.66E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
10	Centerline	8.73E+00	6.71E+00	7.95E+00	6.11E+00	7.91E+00	6.08E+00	<1	<25	<25	<25	7.43E+02	5.57E+02	1.49E+02	1.05E+02	<25
	Mid Centerline	5.24E+00	4.03E+00	4.77E+00	3.67E+00	4.74E+00	3.65E+00	<1	<25	<25	<25	4.46E+02	3.34E+02	8.91E+01	6.28E+01	<25
	Plume Edge	8.73E-02	6.71E-02	7.95E-02	6.11E-02	7.91E-02	6.08E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
15	Centerline	3.29E+00	2.53E+00	3.06E+00	2.35E+00	3.04E+00	2.34E+00	<1	<25	<25	<25	2.78E+03	2.08E+03	5.55E+02	2.87E+01	<25
	Mid Centerline	1.97E+00	1.52E+00	1.83E+00	1.41E+00	1.83E+00	1.40E+00	<1	<25	<25	<25	1.67E+03	1.25E+03	3.33E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	2.78E+01	<25	<25	<25	<25
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		Dose Rate
11:45	04:45	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mR/hr per smear
100 feet	Centerline	2.58E+03	1.98E+03	101	5.94E+01	<25	<25	1.74E+06	1.74E+06	4.85E+02
	Mid Centerline	1.55E+03	1.19E+03	61	3.56E+01	<25	<25	1.05E+06	1.05E+06	2.91E+02
	Plume Edge	2.58E+01	1.98E+01	1	<25	<25	<25	1.74E+04	1.74E+04	<25
200 feet	Centerline	1.41E+03	1.08E+03	64	<25	<25	<25	7.13E+05	7.13E+05	1.98E+02
	Mid Centerline	8.43E+02	6.49E+02	38	<25	<25	<25	4.28E+05	4.28E+05	1.19E+02
	Plume Edge	1.41E+01	1.08E+01	<1	<25	<25	<25	7.13E+03	7.13E+03	<25
400 feet	Centerline	9.41E+02	7.24E+02	48	<25	<25	<25	3.22E+05	3.22E+05	8.95E+01
	Mid Centerline	5.65E+02	4.34E+02	29	<25	<25	<25	1.93E+05	1.93E+05	5.37E+01
	Plume Edge	9.41E+00	7.24E+00	<1	<25	<25	<25	3.22E+03	3.22E+03	<25
800 feet	Centerline	5.95E+02	4.58E+02	33	<25	<25	<25	1.43E+05	1.43E+05	3.98E+01
	Mid Centerline	3.57E+02	2.75E+02	20	<25	<25	<25	8.60E+04	8.60E+04	<25
	Plume Edge	5.95E+00	4.58E+00	<1	<25	<25	<25	1.43E+03	1.43E+03	<25
1200 feet	Centerline	4.35E+02	3.34E+02	25	<25	<25	<25	8.34E+04	8.34E+04	<25
	Mid Centerline	2.61E+02	2.01E+02	15	<25	<25	<25	5.00E+04	5.00E+04	<25
	Plume Edge	4.35E+00	3.34E+00	<1	<25	<25	<25	8.34E+02	8.34E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
11:45	04:45	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	2.06E+03	1.59E+03	81	4.75E+01	<25	<25	1.39E+06	1.39E+06	3.88E+02
	Mid Centerline	1.24E+03	9.52E+02	48	2.85E+01	<25	<25	8.37E+05	8.37E+05	2.33E+02
	Plume Edge	2.06E+01	1.59E+01	<1	<25	<25	<25	1.39E+04	1.39E+04	<25
200 feet	Centerline	1.12E+03	8.65E+02	51	<25	<25	<25	5.71E+05	5.71E+05	1.59E+02
	Mid Centerline	6.75E+02	5.19E+02	31	<25	<25	<25	3.42E+05	3.42E+05	9.52E+01
	Plume Edge	1.12E+01	8.65E+00	<1	<25	<25	<25	5.71E+03	5.71E+03	<25
400 feet	Centerline	7.53E+02	5.79E+02	39	<25	<25	<25	2.57E+05	2.57E+05	7.16E+01
	Mid Centerline	4.52E+02	3.48E+02	23	<25	<25	<25	1.54E+05	1.54E+05	4.29E+01
	Plume Edge	7.53E+00	5.79E+00	<1	<25	<25	<25	2.57E+03	2.57E+03	<25
800 feet	Centerline	4.76E+02	3.66E+02	26	<25	<25	<25	1.15E+05	1.15E+05	3.19E+01
	Mid Centerline	2.85E+02	2.20E+02	16	<25	<25	<25	6.88E+04	6.88E+04	<25
	Plume Edge	4.76E+00	3.66E+00	<1	<25	<25	<25	1.15E+03	1.15E+03	<25
1200 feet	Centerline	3.48E+02	2.68E+02	20	<25	<25	<25	6.67E+04	6.67E+04	<25
	Mid Centerline	2.09E+02	1.61E+02	12	<25	<25	<25	4.00E+04	4.00E+04	<25
	Plume Edge	3.48E+00	2.68E+00	<1	<25	<25	<25	6.67E+02	6.67E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:45	04:45	3 inches/10 cm		3ft/1 Meter		5 Ft					14C Pancake probe ncpm/100 cm2	mr/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
0.75	Centerline	1.80E+02	1.38E+02	1.21E+02	9.31E+01	1.18E+02	9.06E+01	7.34E+00	<25	<25	1.13E+04	<25
	Mid Centerline	1.08E+02	8.30E+01	7.27E+01	5.59E+01	7.07E+01	5.44E+01	4.40E+00	<25	<25	6.80E+03	<25
	Plume Edge	1.80E+00	1.38E+00	1.21E+00	9.31E-01	1.18E+00	9.06E-01	<1	<25	<25	1.13E+02	<25
1	Centerline	1.20E+02	9.24E+01	8.45E+01	6.50E+01	8.25E+01	6.35E+01	5.16E+00	<25	<25	6.86E+03	<25
	Mid Centerline	7.21E+01	5.54E+01	5.07E+01	3.90E+01	4.95E+01	3.81E+01	3.10E+00	<25	<25	4.11E+03	<25
	Plume Edge	1.20E+00	9.24E-01	8.45E-01	6.50E-01	8.25E-01	6.35E-01	<1	<25	<25	6.86E+01	<25
2	Centerline	4.07E+01	3.13E+01	3.06E+01	2.36E+01	3.01E+01	2.31E+01	1.89E+00	<25	<25	1.95E+03	<25
	Mid Centerline	2.44E+01	1.88E+01	1.84E+01	1.41E+01	1.80E+01	1.39E+01	1.13E+00	<25	<25	1.17E+03	<25
	Plume Edge	4.07E-01	3.13E-01	3.06E-01	2.36E-01	3.01E-01	2.31E-01	<1	<25	<25	<25	<25
3	Centerline	2.07E+01	1.59E+01	1.58E+01	1.22E+01	1.56E+01	1.20E+01	<1	<25	<25	9.26E+02	<25
	Mid Centerline	1.24E+01	9.53E+00	9.51E+00	7.31E+00	9.35E+00	7.19E+00	<1	<25	<25	5.56E+02	<25
	Plume Edge	2.07E-01	1.59E-01	1.58E-01	1.22E-01	1.56E-01	1.20E-01	<1	<25	<25	<25	<25
4	Centerline	1.98E+01	1.52E+01	1.64E+01	1.26E+01	1.62E+01	1.25E+01	1.03E+00	<25	<25	5.75E+02	<25
	Mid Centerline	1.19E+01	9.14E+00	9.83E+00	7.56E+00	9.71E+00	7.47E+00	<1	<25	<25	3.45E+02	<25
	Plume Edge	1.98E-01	1.52E-01	1.64E-01	1.26E-01	1.62E-01	1.25E-01	<1	<25	<25	<25	<25
5	Centerline	1.65E+01	1.27E+01	1.39E+01	1.07E+01	1.38E+01	1.06E+01	<1	<25	<25	3.95E+02	<25
	Mid Centerline	9.88E+00	7.60E+00	8.35E+00	6.43E+00	8.27E+00	6.36E+00	<1	<25	<25	2.37E+02	<25
	Plume Edge	1.65E-01	1.27E-01	1.39E-01	1.07E-01	1.38E-01	1.06E-01	<1	<25	<25	<25	<25
6	Centerline	1.15E+01	8.83E+00	9.72E+00	7.48E+00	9.62E+00	7.40E+00	<1	<25	<25	2.73E+02	<25
	Mid Centerline	6.89E+00	5.30E+00	5.83E+00	4.49E+00	5.77E+00	4.44E+00	<1	<25	<25	1.64E+02	<25
	Plume Edge	1.15E-01	8.83E-02	9.72E-02	7.48E-02	9.62E-02	7.40E-02	<1	<25	<25	<25	<25
7	Centerline	9.16E+00	7.05E+00	7.86E+00	6.04E+00	7.78E+00	5.99E+00	<1	<25	<25	1.98E+02	<25
	Mid Centerline	5.50E+00	4.23E+00	4.71E+00	3.63E+00	4.67E+00	3.59E+00	<1	<25	<25	1.19E+02	<25
	Plume Edge	9.16E-02	7.05E-02	7.86E-02	6.04E-02	7.78E-02	5.99E-02	<1	<25	<25	<25	<25
8	Centerline	1.15E+01	8.81E+00	1.03E+01	7.94E+00	1.03E+01	7.89E+00	<1	7.00E+01	7.96E+01	1.61E+02	<25
	Mid Centerline	6.87E+00	5.29E+00	6.19E+00	4.76E+00	6.15E+00	4.73E+00	<1	4.20E+01	4.78E+01	9.63E+01	<25
	Plume Edge	1.15E-01	8.81E-02	1.03E-01	7.94E-02	1.03E-01	7.89E-02	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
11:45	04:45	3 inches/10 cm		3ft/1 Meter		5 Ft					14C Pancake	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	1.10E+01	8.45E+00	1.00E+01	7.70E+00	9.96E+00	7.66E+00	<1	1.04E+02	1.18E+02	1.32E+02	<25
9	Mid Centerline	6.59E+00	5.07E+00	6.01E+00	4.62E+00	5.97E+00	4.60E+00	<1	6.22E+01	7.08E+01	7.94E+01	<25
	Plume Edge	1.10E-01	8.45E-02	1.00E-01	7.70E-02	9.96E-02	7.66E-02	<1	<25	<25	<25	<25
	Centerline	8.73E+00	6.71E+00	7.95E+00	6.11E+00	7.91E+00	6.08E+00	<1	3.26E+02	3.71E+02	1.05E+02	<25
10	Mid Centerline	5.24E+00	4.03E+00	4.77E+00	3.67E+00	4.74E+00	3.65E+00	<1	1.96E+02	2.23E+02	6.28E+01	<25
	Plume Edge	8.73E-02	6.71E-02	7.95E-02	6.11E-02	7.91E-02	6.08E-02	<1	<25	<25	<25	<25
	Centerline	3.29E+00	2.53E+00	3.06E+00	2.35E+00	3.04E+00	2.34E+00	<1	1.22E+03	1.39E+03	2.87E+01	<25
15	Mid Centerline	1.97E+00	1.52E+00	1.83E+00	1.41E+00	1.83E+00	1.40E+00	<1	7.32E+02	8.33E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
20	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
25	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.



# OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:45	04:45	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
0.75	Centerline	1.80E+02	1.38E+02	1.21E+02	9.31E+01	1.18E+02	9.06E+01	7.34E+00	<25	<25	<25	1.13E+04	1.13E+04	<25	
	Mid Centerline	1.08E+02	8.30E+01	7.27E+01	5.59E+01	7.07E+01	5.44E+01	4.40E+00	<25	<25	<25	6.80E+03	6.80E+03	<25	
	Plume Edge	1.80E+00	1.38E+00	1.21E+00	9.31E-01	1.18E+00	9.06E-01	<1	<25	<25	<25	1.13E+02	1.13E+02	<25	
1	Centerline	1.20E+02	9.24E+01	8.45E+01	6.50E+01	8.25E+01	6.35E+01	5.16E+00	<25	<25	<25	6.86E+03	6.86E+03	<25	
	Mid Centerline	7.21E+01	5.54E+01	5.07E+01	3.90E+01	4.95E+01	3.81E+01	3.10E+00	<25	<25	<25	4.11E+03	4.11E+03	<25	
	Plume Edge	1.20E+00	9.24E-01	8.45E-01	6.50E-01	8.25E-01	6.35E-01	<1	<25	<25	<25	6.86E+01	6.86E+01	<25	
2	Centerline	4.07E+01	3.13E+01	3.06E+01	2.36E+01	3.01E+01	2.31E+01	1.89E+00	<25	<25	<25	1.95E+03	1.95E+03	<25	
	Mid Centerline	2.44E+01	1.88E+01	1.84E+01	1.41E+01	1.80E+01	1.39E+01	1.13E+00	<25	<25	<25	1.17E+03	1.17E+03	<25	
	Plume Edge	4.07E-01	3.13E-01	3.06E-01	2.36E-01	3.01E-01	2.31E-01	<1	<25	<25	<25	<25	<25	<25	
3	Centerline	2.07E+01	1.59E+01	1.58E+01	1.22E+01	1.56E+01	1.20E+01	<1	<25	<25	<25	9.26E+02	9.26E+02	<25	
	Mid Centerline	1.24E+01	9.53E+00	9.51E+00	7.31E+00	9.35E+00	7.19E+00	<1	<25	<25	<25	5.56E+02	5.56E+02	<25	
	Plume Edge	2.07E-01	1.59E-01	1.58E-01	1.22E-01	1.56E-01	1.20E-01	<1	<25	<25	<25	<25	<25	<25	
4	Centerline	1.98E+01	1.52E+01	1.64E+01	1.26E+01	1.62E+01	1.25E+01	1.03E+00	<25	<25	<25	5.75E+02	5.75E+02	<25	
	Mid Centerline	1.19E+01	9.14E+00	9.83E+00	7.56E+00	9.71E+00	7.47E+00	<1	<25	<25	<25	3.45E+02	3.45E+02	<25	
	Plume Edge	1.98E-01	1.52E-01	1.64E-01	1.26E-01	1.62E-01	1.25E-01	<1	<25	<25	<25	<25	<25	<25	
5	Centerline	1.65E+01	1.27E+01	1.39E+01	1.07E+01	1.38E+01	1.06E+01	<1	<25	<25	<25	3.95E+02	3.95E+02	<25	
	Mid Centerline	9.88E+00	7.60E+00	8.35E+00	6.43E+00	8.27E+00	6.36E+00	<1	<25	<25	<25	2.37E+02	2.37E+02	<25	
	Plume Edge	1.65E-01	1.27E-01	1.39E-01	1.07E-01	1.38E-01	1.06E-01	<1	<25	<25	<25	<25	<25	<25	
6	Centerline	1.15E+01	8.83E+00	9.72E+00	7.48E+00	9.62E+00	7.40E+00	<1	<25	<25	<25	2.73E+02	2.73E+02	<25	
	Mid Centerline	6.89E+00	5.30E+00	5.83E+00	4.49E+00	5.77E+00	4.44E+00	<1	<25	<25	<25	1.64E+02	1.64E+02	<25	
	Plume Edge	1.15E-01	8.83E-02	9.72E-02	7.48E-02	9.62E-02	7.40E-02	<1	<25	<25	<25	<25	<25	<25	
7	Centerline	9.16E+00	7.05E+00	7.86E+00	6.04E+00	7.78E+00	5.99E+00	<1	1.93E+02	<25	<25	1.98E+02	1.98E+02	<25	
	Mid Centerline	5.50E+00	4.23E+00	4.71E+00	3.63E+00	4.67E+00	3.59E+00	<1	1.16E+02	<25	<25	1.19E+02	1.19E+02	<25	
	Plume Edge	9.16E-02	7.05E-02	7.86E-02	6.04E-02	7.78E-02	5.99E-02	<1	<25	<25	<25	<25	<25	<25	
8	Centerline	1.15E+01	8.81E+00	1.03E+01	7.94E+00	1.03E+01	7.89E+00	<1	7.00E+02	7.96E+01	7.96E+01	1.61E+02	1.61E+02	<25	
	Mid Centerline	6.87E+00	5.29E+00	6.19E+00	4.76E+00	6.15E+00	4.73E+00	<1	4.20E+02	4.78E+01	4.78E+01	9.63E+01	9.63E+01	<25	
	Plume Edge	1.15E-01	8.81E-02	1.03E-01	7.94E-02	1.03E-01	7.89E-02	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
11:45	04:45	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
9	Centerline	1.10E+01	8.45E+00	1.00E+01	7.70E+00	9.96E+00	7.66E+00	<1	1.04E+03	1.18E+02	1.18E+02	1.32E+02	1.32E+02	<25	
	Mid Centerline	6.59E+00	5.07E+00	6.01E+00	4.62E+00	5.97E+00	4.60E+00	<1	6.22E+02	7.08E+01	7.08E+01	7.94E+01	7.94E+01	<25	
	Plume Edge	1.10E-01	8.45E-02	1.00E-01	7.70E-02	9.96E-02	7.66E-02	<1	<25	<25	<25	<25	<25	<25	
10	Centerline	8.73E+00	6.71E+00	7.95E+00	6.11E+00	7.91E+00	6.08E+00	<1	3.26E+03	3.71E+02	3.71E+02	1.05E+02	1.05E+02	<25	
	Mid Centerline	5.24E+00	4.03E+00	4.77E+00	3.67E+00	4.74E+00	3.65E+00	<1	1.96E+03	2.23E+02	2.23E+02	6.28E+01	6.28E+01	<25	
	Plume Edge	8.73E-02	6.71E-02	7.95E-02	6.11E-02	7.91E-02	6.08E-02	<1	3.26E+01	<25	<25	<25	<25	<25	
15	Centerline	3.29E+00	2.53E+00	3.06E+00	2.35E+00	3.04E+00	2.34E+00	<1	1.22E+04	1.39E+03	1.39E+03	2.87E+01	2.87E+01	<25	
	Mid Centerline	1.97E+00	1.52E+00	1.83E+00	1.41E+00	1.83E+00	1.40E+00	<1	7.32E+03	8.33E+02	8.33E+02	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	1.22E+02	<25	<25	<25	<25	<25	
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 11:45	Drill Time 04:45	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	1.80E+02	1.38E+02	1.21E+02	9.31E+01	1.18E+02	9.06E+01	7.34E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.08E+02	8.30E+01	7.27E+01	5.59E+01	7.07E+01	5.44E+01	4.40E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.80E+00	1.38E+00	1.21E+00	9.31E-01	1.18E+00	9.06E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	1.20E+02	9.24E+01	8.45E+01	6.50E+01	8.25E+01	6.35E+01	5.16E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	7.21E+01	5.54E+01	5.07E+01	3.90E+01	4.95E+01	3.81E+01	3.10E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.20E+00	9.24E-01	8.45E-01	6.50E-01	8.25E-01	6.35E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	4.07E+01	3.13E+01	3.06E+01	2.36E+01	3.01E+01	2.31E+01	1.89E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.44E+01	1.88E+01	1.84E+01	1.41E+01	1.80E+01	1.39E+01	1.13E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	4.07E-01	3.13E-01	3.06E-01	2.36E-01	3.01E-01	2.31E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	2.07E+01	1.59E+01	1.58E+01	1.22E+01	1.56E+01	1.20E+01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.24E+01	9.53E+00	9.51E+00	7.31E+00	9.35E+00	7.19E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.07E-01	1.59E-01	1.58E-01	1.22E-01	1.56E-01	1.20E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	1.98E+01	1.52E+01	1.64E+01	1.26E+01	1.62E+01	1.25E+01	1.03E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.19E+01	9.14E+00	9.83E+00	7.56E+00	9.71E+00	7.47E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.98E-01	1.52E-01	1.64E-01	1.26E-01	1.62E-01	1.25E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	1.65E+01	1.27E+01	1.39E+01	1.07E+01	1.38E+01	1.06E+01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	9.88E+00	7.60E+00	8.35E+00	6.43E+00	8.27E+00	6.36E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.65E-01	1.27E-01	1.39E-01	1.07E-01	1.38E-01	1.06E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	1.15E+01	8.83E+00	9.72E+00	7.48E+00	9.62E+00	7.40E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	6.89E+00	5.30E+00	5.83E+00	4.49E+00	5.77E+00	4.44E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.15E-01	8.83E-02	9.72E-02	7.48E-02	9.62E-02	7.40E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	9.16E+00	7.05E+00	7.86E+00	6.04E+00	7.78E+00	5.99E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.02
	Mid Centerline	5.50E+00	4.23E+00	4.71E+00	3.63E+00	4.67E+00	3.59E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	9.16E-02	7.05E-02	7.86E-02	6.04E-02	7.78E-02	5.99E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	1.15E+01	8.81E+00	1.03E+01	7.94E+00	1.03E+01	7.89E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.06
	Mid Centerline	6.87E+00	5.29E+00	6.19E+00	4.76E+00	6.15E+00	4.73E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.03
	Plume Edge	1.15E-01	8.81E-02	1.03E-01	7.94E-02	1.03E-01	7.89E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

Field Team Data for Cooper Nuclear Station Field Team Instruments

Real Time 11:45	Drill Time 04:45	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	1.10E+01	8.45E+00	1.00E+01	7.70E+00	9.96E+00	7.66E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.08
	Mid Centerline	6.59E+00	5.07E+00	6.01E+00	4.62E+00	5.97E+00	4.60E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.05
	Plume Edge	1.10E-01	8.45E-02	1.00E-01	7.70E-02	9.96E-02	7.66E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
10	Centerline	8.73E+00	6.71E+00	7.95E+00	6.11E+00	7.91E+00	6.08E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.06	0.26
	Mid Centerline	5.24E+00	4.03E+00	4.77E+00	3.67E+00	4.74E+00	3.65E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.04	0.15
	Plume Edge	8.73E-02	6.71E-02	7.95E-02	6.11E-02	7.91E-02	6.08E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
15	Centerline	3.29E+00	2.53E+00	3.06E+00	2.35E+00	3.04E+00	2.34E+00	<1	1.94E-08	<0.01	0.02	2.21E-08	0.24	0.96
	Mid Centerline	1.97E+00	1.52E+00	1.83E+00	1.41E+00	1.83E+00	1.40E+00	<1	1.16E-08	<0.01	0.01	1.32E-08	0.14	0.58
	Plume Edge	3.29E-02	2.53E-02	3.06E-02	2.35E-02	3.04E-02	2.34E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
12:00	05:00	3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SIH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SIH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	1.17E+02	9.00E+01	6.18E+01	4.75E+01	5.87E+01	4.52E+01	3.56E+00	<25	<25	<25	<25	<25	<25	1.10E+04	<25
	Mid Centerline	7.02E+01	5.40E+01	3.71E+01	2.85E+01	3.52E+01	2.71E+01	2.14E+00	<25	<25	<25	<25	<25	<25	6.60E+03	<25
	Plume Edge	1.17E+00	9.00E-01	6.18E-01	4.75E-01	5.87E-01	4.52E-01	<1	<25	<25	<25	<25	<25	<25	1.10E+02	<25
1	Centerline	7.62E+01	5.87E+01	4.28E+01	3.30E+01	4.10E+01	3.15E+01	2.51E+00	<25	<25	<25	<25	<25	<25	6.66E+03	<25
	Mid Centerline	4.57E+01	3.52E+01	2.57E+01	1.98E+01	2.46E+01	1.89E+01	1.50E+00	<25	<25	<25	<25	<25	<25	4.00E+03	<25
	Plume Edge	7.62E-01	5.87E-01	4.28E-01	3.30E-01	4.10E-01	3.15E-01	<1	<25	<25	<25	<25	<25	<25	6.66E+01	<25
2	Centerline	2.49E+01	1.91E+01	1.54E+01	1.18E+01	1.49E+01	1.14E+01	<1	<25	<25	<25	<25	<25	<25	1.89E+03	<25
	Mid Centerline	1.49E+01	1.15E+01	9.23E+00	7.10E+00	8.91E+00	6.86E+00	<1	<25	<25	<25	<25	<25	<25	1.13E+03	<25
	Plume Edge	2.49E-01	1.91E-01	1.54E-01	1.18E-01	1.49E-01	1.14E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	1.25E+01	9.58E+00	7.94E+00	6.10E+00	7.69E+00	5.91E+00	<1	<25	<25	<25	<25	<25	<25	8.99E+02	<25
	Mid Centerline	7.47E+00	5.75E+00	4.76E+00	3.66E+00	4.61E+00	3.55E+00	<1	<25	<25	<25	<25	<25	<25	5.40E+02	<25
	Plume Edge	1.25E-01	9.58E-02	7.94E-02	6.10E-02	7.69E-02	5.91E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	1.12E+01	8.61E+00	7.99E+00	6.14E+00	7.81E+00	6.01E+00	<1	<25	<25	<25	<25	<25	<25	5.58E+02	<25
	Mid Centerline	6.72E+00	5.17E+00	4.79E+00	3.69E+00	4.68E+00	3.60E+00	<1	<25	<25	<25	<25	<25	<25	3.35E+02	<25
	Plume Edge	1.12E-01	8.61E-02	7.99E-02	6.14E-02	7.81E-02	6.01E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	9.13E+00	7.02E+00	6.74E+00	5.18E+00	6.60E+00	5.08E+00	<1	<25	<25	<25	<25	<25	<25	3.84E+02	<25
	Mid Centerline	5.48E+00	4.21E+00	4.04E+00	3.11E+00	3.96E+00	3.05E+00	<1	<25	<25	<25	<25	<25	<25	2.30E+02	<25
	Plume Edge	9.13E-02	7.02E-02	6.74E-02	5.18E-02	6.60E-02	5.08E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	6.35E+00	4.89E+00	4.70E+00	3.62E+00	4.61E+00	3.55E+00	<1	<25	<25	<25	<25	<25	<25	2.65E+02	<25
	Mid Centerline	3.81E+00	2.93E+00	2.82E+00	2.17E+00	2.77E+00	2.13E+00	<1	<25	<25	<25	<25	<25	<25	1.59E+02	<25
	Plume Edge	6.35E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	4.98E+00	3.83E+00	3.76E+00	2.89E+00	3.69E+00	2.84E+00	<1	<25	<25	<25	<25	<25	<25	1.93E+02	<25
	Mid Centerline	2.99E+00	2.30E+00	2.25E+00	1.73E+00	2.21E+00	1.70E+00	<1	<25	<25	<25	<25	<25	<25	1.16E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	5.81E+00	4.47E+00	4.74E+00	3.65E+00	4.69E+00	3.60E+00	<1	<25	<25	<25	<25	<25	<25	1.56E+02	<25
	Mid Centerline	3.49E+00	2.68E+00	2.85E+00	2.19E+00	2.81E+00	2.16E+00	<1	<25	<25	<25	<25	<25	<25	9.38E+01	<25
	Plume Edge	5.81E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time 12:00	Drill Time 05:00	Survey Meter						Dose	Iodine			Particulate			Smear	
		3 inches/10 cm		30/1 Meter		5 Ft			Contact	SH-4	1.5 inch	Contact	SH-4	1.5 inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3		
	Centerline	5.48E+00	4.22E+00	4.57E+00	3.51E+00	4.51E+00	3.47E+00	<1	<25	<25	<25	<25	<25	<25	1.29E+02	<25
9	Mid Centerline	3.29E+00	2.53E+00	2.74E+00	2.11E+00	2.71E+00	2.08E+00	<1	<25	<25	<25	<25	<25	<25	7.73E+01	<25
	Plume Edge	5.48E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	4.42E+00	3.40E+00	3.69E+00	2.84E+00	3.65E+00	2.81E+00	<1	<25	<25	<25	<25	<25	<25	1.02E+02	<25
10	Mid Centerline	2.65E+00	2.04E+00	2.21E+00	1.70E+00	2.19E+00	1.68E+00	<1	<25	<25	<25	<25	<25	<25	6.13E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	4.89E+00	3.77E+00	4.47E+00	3.44E+00	4.45E+00	3.42E+00	<1	<25	<25	<25	2.29E+03	1.72E+03	4.58E+02	5.18E+01	<25
15	Mid Centerline	2.94E+00	2.26E+00	2.68E+00	2.06E+00	2.67E+00	2.05E+00	<1	<25	<25	<25	1.37E+03	1.03E+03	2.75E+02	3.11E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	1.04E+00	8.02E-01	9.63E-01	7.41E-01	9.59E-01	7.37E-01	<1	<25	<25	<25	9.13E+02	6.85E+02	1.83E+02	<25	<25
20	Mid Centerline	6.26E-01	4.81E-01	5.78E-01	4.45E-01	5.75E-01	4.42E-01	<1	<25	<25	<25	5.48E+02	4.11E+02	1.10E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
25	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
12:00	05:00	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.71E+03	1.31E+03	49	<25	<25	<25	1.69E+06	1.69E+06	4.71E+02
	Mid Centerline	1.02E+03	7.88E+02	29	<25	<25	<25	1.02E+06	1.02E+06	2.82E+02
	Plume Edge	1.71E+01	1.31E+01	<1	<25	<25	<25	1.69E+04	1.69E+04	<25
200 feet	Centerline	8.69E+02	6.68E+02	31	<25	<25	<25	6.93E+05	6.93E+05	1.93E+02
	Mid Centerline	5.21E+02	4.01E+02	19	<25	<25	<25	4.16E+05	4.16E+05	1.16E+02
	Plume Edge	8.69E+00	6.68E+00	<1	<25	<25	<25	6.93E+03	6.93E+03	<25
400 feet	Centerline	5.41E+02	4.16E+02	24	<25	<25	<25	3.13E+05	3.13E+05	8.69E+01
	Mid Centerline	3.25E+02	2.50E+02	14	<25	<25	<25	1.88E+05	1.88E+05	5.21E+01
	Plume Edge	5.41E+00	4.16E+00	<1	<25	<25	<25	3.13E+03	3.13E+03	<25
800 feet	Centerline	3.26E+02	2.51E+02	16	<25	<25	<25	1.39E+05	1.39E+05	3.87E+01
	Mid Centerline	1.96E+02	1.51E+02	10	<25	<25	<25	8.35E+04	8.35E+04	<25
	Plume Edge	3.26E+00	2.51E+00	<1	<25	<25	<25	1.39E+03	1.39E+03	<25
1200 feet	Centerline	2.33E+02	1.79E+02	12	<25	<25	<25	8.10E+04	8.10E+04	<25
	Mid Centerline	1.40E+02	1.08E+02	7	<25	<25	<25	4.86E+04	4.86E+04	<25
	Plume Edge	2.33E+00	1.79E+00	<1	<25	<25	<25	8.10E+02	8.10E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
12:00	05:00	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.37E+03	1.05E+03	39	<25	<25	<25	1.35E+06	1.35E+06	3.76E+02
	Mid Centerline	8.20E+02	6.31E+02	24	<25	<25	<25	8.13E+05	8.13E+05	2.26E+02
	Plume Edge	1.37E+01	1.05E+01	<1	<25	<25	<25	1.35E+04	1.35E+04	<25
200 feet	Centerline	6.95E+02	5.35E+02	25	<25	<25	<25	5.54E+05	5.54E+05	1.54E+02
	Mid Centerline	4.17E+02	3.21E+02	15	<25	<25	<25	3.32E+05	3.32E+05	9.24E+01
	Plume Edge	6.95E+00	5.35E+00	<1	<25	<25	<25	5.54E+03	5.54E+03	<25
400 feet	Centerline	4.33E+02	3.33E+02	19	<25	<25	<25	2.50E+05	2.50E+05	6.95E+01
	Mid Centerline	2.60E+02	2.00E+02	11	<25	<25	<25	1.50E+05	1.50E+05	4.17E+01
	Plume Edge	4.33E+00	3.33E+00	<1	<25	<25	<25	2.50E+03	2.50E+03	<25
800 feet	Centerline	2.61E+02	2.01E+02	13	<25	<25	<25	1.11E+05	1.11E+05	3.10E+01
	Mid Centerline	1.57E+02	1.20E+02	8	<25	<25	<25	6.68E+04	6.68E+04	<25
	Plume Edge	2.61E+00	2.01E+00	<1	<25	<25	<25	1.11E+03	1.11E+03	<25
1200 feet	Centerline	1.86E+02	1.43E+02	10	<25	<25	<25	6.48E+04	6.48E+04	<25
	Mid Centerline	1.12E+02	8.60E+01	6	<25	<25	<25	3.89E+04	3.89E+04	<25
	Plume Edge	1.86E+00	1.43E+00	<1	<25	<25	<25	6.48E+02	6.48E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.



# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
12:00	05:00	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	1.17E+02	9.00E+01	6.18E+01	4.75E+01	5.87E+01	4.52E+01	3.56E+00	<25	<25	1.10E+04	<25
0.75	Mid Centerline	7.02E+01	5.40E+01	3.71E+01	2.85E+01	3.52E+01	2.71E+01	2.14E+00	<25	<25	6.60E+03	<25
	Plume Edge	1.17E+00	9.00E-01	6.18E-01	4.75E-01	5.87E-01	4.52E-01	<1	<25	<25	1.10E+02	<25
	Centerline	7.62E+01	5.87E+01	4.28E+01	3.30E+01	4.10E+01	3.15E+01	2.51E+00	<25	<25	6.66E+03	<25
1	Mid Centerline	4.57E+01	3.52E+01	2.57E+01	1.98E+01	2.46E+01	1.89E+01	1.50E+00	<25	<25	4.00E+03	<25
	Plume Edge	7.62E-01	5.87E-01	4.28E-01	3.30E-01	4.10E-01	3.15E-01	<1	<25	<25	6.66E+01	<25
	Centerline	2.49E+01	1.91E+01	1.54E+01	1.18E+01	1.49E+01	1.14E+01	<1	<25	<25	1.89E+03	<25
2	Mid Centerline	1.49E+01	1.15E+01	9.23E+00	7.10E+00	8.91E+00	6.86E+00	<1	<25	<25	1.13E+03	<25
	Plume Edge	2.49E-01	1.91E-01	1.54E-01	1.18E-01	1.49E-01	1.14E-01	<1	<25	<25	<25	<25
	Centerline	1.25E+01	9.58E+00	7.94E+00	6.10E+00	7.69E+00	5.91E+00	<1	<25	<25	8.99E+02	<25
3	Mid Centerline	7.47E+00	5.75E+00	4.76E+00	3.66E+00	4.61E+00	3.55E+00	<1	<25	<25	5.40E+02	<25
	Plume Edge	1.25E-01	9.58E-02	7.94E-02	6.10E-02	7.69E-02	5.91E-02	<1	<25	<25	<25	<25
	Centerline	1.12E+01	8.61E+00	7.99E+00	6.14E+00	7.81E+00	6.01E+00	<1	<25	<25	5.58E+02	<25
4	Mid Centerline	6.72E+00	5.17E+00	4.79E+00	3.69E+00	4.68E+00	3.60E+00	<1	<25	<25	3.35E+02	<25
	Plume Edge	1.12E-01	8.61E-02	7.99E-02	6.14E-02	7.81E-02	6.01E-02	<1	<25	<25	<25	<25
	Centerline	9.13E+00	7.02E+00	6.74E+00	5.18E+00	6.60E+00	5.08E+00	<1	<25	<25	3.84E+02	<25
5	Mid Centerline	5.48E+00	4.21E+00	4.04E+00	3.11E+00	3.96E+00	3.05E+00	<1	<25	<25	2.30E+02	<25
	Plume Edge	9.13E-02	7.02E-02	6.74E-02	5.18E-02	6.60E-02	5.08E-02	<1	<25	<25	<25	<25
	Centerline	6.35E+00	4.89E+00	4.70E+00	3.62E+00	4.61E+00	3.55E+00	<1	<25	<25	2.65E+02	<25
6	Mid Centerline	3.81E+00	2.93E+00	2.82E+00	2.17E+00	2.77E+00	2.13E+00	<1	<25	<25	1.59E+02	<25
	Plume Edge	6.35E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	4.98E+00	3.83E+00	3.76E+00	2.89E+00	3.69E+00	2.84E+00	<1	<25	<25	1.93E+02	<25
7	Mid Centerline	2.99E+00	2.30E+00	2.25E+00	1.73E+00	2.21E+00	1.70E+00	<1	<25	<25	1.16E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	5.81E+00	4.47E+00	4.74E+00	3.65E+00	4.69E+00	3.60E+00	<1	<25	<25	1.56E+02	<25
8	Mid Centerline	3.49E+00	2.68E+00	2.85E+00	2.19E+00	2.81E+00	2.16E+00	<1	<25	<25	9.38E+01	<25
	Plume Edge	5.81E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
12:00	05:00	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	5.48E+00	4.22E+00	4.57E+00	3.51E+00	4.51E+00	3.47E+00	<1	<25	<25	1.29E+02	<25
9	Mid Centerline	3.29E+00	2.53E+00	2.74E+00	2.11E+00	2.71E+00	2.08E+00	<1	<25	<25	7.73E+01	<25
	Plume Edge	5.48E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	4.42E+00	3.40E+00	3.69E+00	2.84E+00	3.65E+00	2.81E+00	<1	<25	<25	1.02E+02	<25
10	Mid Centerline	2.65E+00	2.04E+00	2.21E+00	1.70E+00	2.19E+00	1.68E+00	<1	<25	<25	6.13E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	4.89E+00	3.77E+00	4.47E+00	3.44E+00	4.45E+00	3.42E+00	<1	1.00E+03	1.14E+03	5.18E+01	<25
15	Mid Centerline	2.94E+00	2.26E+00	2.68E+00	2.06E+00	2.67E+00	2.05E+00	<1	6.01E+02	6.87E+02	3.11E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	1.04E+00	8.02E-01	9.63E-01	7.41E-01	9.59E-01	7.37E-01	<1	4.00E+02	4.57E+02	<25	<25
20	Mid Centerline	6.26E-01	4.81E-01	5.78E-01	4.45E-01	5.75E-01	4.42E-01	<1	2.40E+02	2.74E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
25	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate		Smears		
12:00	05:00	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear
0.75	Centerline	1.17E+02	9.00E+01	6.18E+01	4.75E+01	5.87E+01	4.52E+01	3.56E+00	<25	<25	<25	1.10E+04	1.10E+04	<25
	Mid Centerline	7.02E+01	5.40E+01	3.71E+01	2.85E+01	3.52E+01	2.71E+01	2.14E+00	<25	<25	<25	6.60E+03	6.60E+03	<25
	Plume Edge	1.17E+00	9.00E-01	6.18E-01	4.75E-01	5.87E-01	4.52E-01	<1	<25	<25	<25	1.10E+02	1.10E+02	<25
1	Centerline	7.62E+01	5.87E+01	4.28E+01	3.30E+01	4.10E+01	3.15E+01	2.51E+00	<25	<25	<25	6.66E+03	6.66E+03	<25
	Mid Centerline	4.57E+01	3.52E+01	2.57E+01	1.98E+01	2.46E+01	1.89E+01	1.50E+00	<25	<25	<25	4.00E+03	4.00E+03	<25
	Plume Edge	7.62E-01	5.87E-01	4.28E-01	3.30E-01	4.10E-01	3.15E-01	<1	<25	<25	<25	6.66E+01	6.66E+01	<25
2	Centerline	2.49E+01	1.91E+01	1.54E+01	1.18E+01	1.49E+01	1.14E+01	<1	<25	<25	<25	1.89E+03	1.89E+03	<25
	Mid Centerline	1.49E+01	1.15E+01	9.23E+00	7.10E+00	8.91E+00	6.86E+00	<1	<25	<25	<25	1.13E+03	1.13E+03	<25
	Plume Edge	2.49E-01	1.91E-01	1.54E-01	1.18E-01	1.49E-01	1.14E-01	<1	<25	<25	<25	<25	<25	<25
3	Centerline	1.25E+01	9.58E+00	7.94E+00	6.10E+00	7.69E+00	5.91E+00	<1	<25	<25	<25	8.99E+02	8.99E+02	<25
	Mid Centerline	7.47E+00	5.75E+00	4.76E+00	3.66E+00	4.61E+00	3.55E+00	<1	<25	<25	<25	5.40E+02	5.40E+02	<25
	Plume Edge	1.25E-01	9.58E-02	7.94E-02	6.10E-02	7.69E-02	5.91E-02	<1	<25	<25	<25	<25	<25	<25
4	Centerline	1.12E+01	8.61E+00	7.99E+00	6.14E+00	7.81E+00	6.01E+00	<1	<25	<25	<25	5.58E+02	5.58E+02	<25
	Mid Centerline	6.72E+00	5.17E+00	4.79E+00	3.69E+00	4.68E+00	3.60E+00	<1	<25	<25	<25	3.35E+02	3.35E+02	<25
	Plume Edge	1.12E-01	8.61E-02	7.99E-02	6.14E-02	7.81E-02	6.01E-02	<1	<25	<25	<25	<25	<25	<25
5	Centerline	9.13E+00	7.02E+00	6.74E+00	5.18E+00	6.60E+00	5.08E+00	<1	<25	<25	<25	3.84E+02	3.84E+02	<25
	Mid Centerline	5.48E+00	4.21E+00	4.04E+00	3.11E+00	3.96E+00	3.05E+00	<1	<25	<25	<25	2.30E+02	2.30E+02	<25
	Plume Edge	9.13E-02	7.02E-02	6.74E-02	5.18E-02	6.60E-02	5.08E-02	<1	<25	<25	<25	<25	<25	<25
6	Centerline	6.35E+00	4.89E+00	4.70E+00	3.62E+00	4.61E+00	3.55E+00	<1	<25	<25	<25	2.65E+02	2.65E+02	<25
	Mid Centerline	3.81E+00	2.93E+00	2.82E+00	2.17E+00	2.77E+00	2.13E+00	<1	<25	<25	<25	1.59E+02	1.59E+02	<25
	Plume Edge	6.35E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
7	Centerline	4.98E+00	3.83E+00	3.76E+00	2.89E+00	3.69E+00	2.84E+00	<1	<25	<25	<25	1.93E+02	1.93E+02	<25
	Mid Centerline	2.99E+00	2.30E+00	2.25E+00	1.73E+00	2.21E+00	1.70E+00	<1	<25	<25	<25	1.16E+02	1.16E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
8	Centerline	5.81E+00	4.47E+00	4.74E+00	3.65E+00	4.69E+00	3.60E+00	<1	<25	<25	<25	1.56E+02	1.56E+02	<25
	Mid Centerline	3.49E+00	2.68E+00	2.85E+00	2.19E+00	2.81E+00	2.16E+00	<1	<25	<25	<25	9.38E+01	9.38E+01	<25
	Plume Edge	5.81E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

2003 Exercise

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
12:00	05:00	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mr/hr per smear	
	Centerline	5.48E+00	4.22E+00	4.57E+00	3.51E+00	4.51E+00	3.47E+00	<1	<25	<25	<25	1.29E+02	1.29E+02	<25	
9	Mid Centerline	3.29E+00	2.53E+00	2.74E+00	2.11E+00	2.71E+00	2.08E+00	<1	<25	<25	<25	7.73E+01	7.73E+01	<25	
	Plume Edge	5.48E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	4.42E+00	3.40E+00	3.69E+00	2.84E+00	3.65E+00	2.81E+00	<1	4.04E+01	<25	<25	1.02E+02	1.02E+02	<25	
10	Mid Centerline	2.65E+00	2.04E+00	2.21E+00	1.70E+00	2.19E+00	1.68E+00	<1	<25	<25	<25	6.13E+01	6.13E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	4.89E+00	3.77E+00	4.47E+00	3.44E+00	4.45E+00	3.42E+00	<1	1.00E+04	1.14E+03	1.14E+03	5.18E+01	5.18E+01	<25	
15	Mid Centerline	2.94E+00	2.26E+00	2.68E+00	2.06E+00	2.67E+00	2.05E+00	<1	6.01E+03	6.87E+02	6.87E+02	3.11E+01	3.11E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	1.00E+02	<25	<25	<25	<25	<25	
	Centerline	1.04E+00	8.02E-01	9.63E-01	7.41E-01	9.59E-01	7.37E-01	<1	4.00E+03	4.57E+02	4.57E+02	<25	<25	<25	
20	Mid Centerline	6.26E-01	4.81E-01	5.78E-01	4.45E-01	5.75E-01	4.42E-01	<1	2.40E+03	2.74E+02	2.74E+02	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	4.00E+01	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
25	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 12:00	Drill Time 05:00	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine uCi/cc	Ion Chamber mRem/hr	E-140 mRem/hr	Part. uCi/cc	Ion Chamber mRem/hr	E-140 mRem/hr
		mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed							
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed							
0.75	Centerline	1.17E+02	9.00E+01	6.18E+01	4.75E+01	5.87E+01	4.52E+01	3.56E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	7.02E+01	5.40E+01	3.71E+01	2.85E+01	3.52E+01	2.71E+01	2.14E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.17E+00	9.00E-01	6.18E-01	4.75E-01	5.87E-01	4.52E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	7.62E+01	5.87E+01	4.28E+01	3.30E+01	4.10E+01	3.15E+01	2.51E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	4.57E+01	3.52E+01	2.57E+01	1.98E+01	2.46E+01	1.89E+01	1.50E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	7.62E-01	5.87E-01	4.28E-01	3.30E-01	4.10E-01	3.15E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	2.49E+01	1.91E+01	1.54E+01	1.18E+01	1.49E+01	1.14E+01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.49E+01	1.15E+01	9.23E+00	7.10E+00	8.91E+00	6.86E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.49E-01	1.91E-01	1.54E-01	1.18E-01	1.49E-01	1.14E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	1.25E+01	9.58E+00	7.94E+00	6.10E+00	7.69E+00	5.91E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	7.47E+00	5.75E+00	4.76E+00	3.66E+00	4.61E+00	3.55E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.25E-01	9.58E-02	7.94E-02	6.10E-02	7.69E-02	5.91E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	1.12E+01	8.61E+00	7.99E+00	6.14E+00	7.81E+00	6.01E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	6.72E+00	5.17E+00	4.79E+00	3.69E+00	4.68E+00	3.60E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.12E-01	8.61E-02	7.99E-02	6.14E-02	7.81E-02	6.01E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	9.13E+00	7.02E+00	6.74E+00	5.18E+00	6.60E+00	5.08E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	5.48E+00	4.21E+00	4.04E+00	3.11E+00	3.96E+00	3.05E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	9.13E-02	7.02E-02	6.74E-02	5.18E-02	6.60E-02	5.08E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	6.35E+00	4.89E+00	4.70E+00	3.62E+00	4.61E+00	3.55E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.81E+00	2.93E+00	2.82E+00	2.17E+00	2.77E+00	2.13E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	6.35E-02	4.89E-02	4.70E-02	3.62E-02	4.61E-02	3.55E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	4.98E+00	3.83E+00	3.76E+00	2.89E+00	3.69E+00	2.84E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.99E+00	2.30E+00	2.25E+00	1.73E+00	2.21E+00	1.70E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	4.98E-02	3.83E-02	3.76E-02	2.89E-02	3.69E-02	2.84E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	5.81E+00	4.47E+00	4.74E+00	3.65E+00	4.69E+00	3.60E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.49E+00	2.68E+00	2.85E+00	2.19E+00	2.81E+00	2.16E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	5.81E-02	4.47E-02	4.74E-02	3.65E-02	4.69E-02	3.60E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 12:00	Drill Time 05:00	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 Inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	5.48E+00	4.22E+00	4.57E+00	3.51E+00	4.51E+00	3.47E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.29E+00	2.53E+00	2.74E+00	2.11E+00	2.71E+00	2.08E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	5.48E-02	4.22E-02	4.57E-02	3.51E-02	4.51E-02	3.47E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
10	Centerline	4.42E+00	3.40E+00	3.69E+00	2.84E+00	3.65E+00	2.81E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.65E+00	2.04E+00	2.21E+00	1.70E+00	2.19E+00	1.68E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	4.42E-02	3.40E-02	3.69E-02	2.84E-02	3.65E-02	2.81E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
15	Centerline	4.89E+00	3.77E+00	4.47E+00	3.44E+00	4.45E+00	3.42E+00	<1	1.59E-08	<0.01	0.01	1.82E-08	0.19	0.79
	Mid Centerline	2.94E+00	2.26E+00	2.68E+00	2.06E+00	2.67E+00	2.05E+00	<1	<1.0E-08	<0.01	<0.01	1.09E-08	0.12	0.48
	Plume Edge	4.89E-02	3.77E-02	4.47E-02	3.44E-02	4.45E-02	3.42E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	1.04E+00	8.02E-01	9.63E-01	7.41E-01	9.59E-01	7.37E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.08	0.32
	Mid Centerline	6.26E-01	4.81E-01	5.78E-01	4.45E-01	5.75E-01	4.42E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.05	0.19
	Plume Edge	1.04E-02	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
12:15	05:15	3 inches/10 cm		3R/1 Meter		5 Ft			Contact	SIH-4	1.5 inch	Contact	SIH-4	1.5 inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3		
0.75	Centerline	8.57E+01	6.59E+01	3.36E+01	2.58E+01	3.07E+01	2.36E+01	1.78E+00	<25	<25	<25	<25	<25	<25	1.07E+04	<25
	Mid Centerline	5.14E+01	3.95E+01	2.01E+01	1.55E+01	1.84E+01	1.42E+01	1.07E+00	<25	<25	<25	<25	<25	<25	6.43E+03	<25
	Plume Edge	8.57E-01	6.59E-01	3.36E-01	2.58E-01	3.07E-01	2.36E-01	<1	<25	<25	<25	<25	<25	<25	1.07E+02	<25
1	Centerline	5.46E+01	4.20E+01	2.30E+01	1.77E+01	2.13E+01	1.64E+01	1.25E+00	<25	<25	<25	<25	<25	<25	6.48E+03	<25
	Mid Centerline	3.27E+01	2.52E+01	1.38E+01	1.06E+01	1.28E+01	9.82E+00	<1	<25	<25	<25	<25	<25	<25	3.89E+03	<25
	Plume Edge	5.46E-01	4.20E-01	2.30E-01	1.77E-01	2.13E-01	1.64E-01	<1	<25	<25	<25	<25	<25	<25	6.48E+01	<25
2	Centerline	1.71E+01	1.32E+01	8.15E+00	6.27E+00	7.65E+00	5.88E+00	<1	<25	<25	<25	<25	<25	<25	1.84E+03	<25
	Mid Centerline	1.03E+01	7.89E+00	4.89E+00	3.76E+00	4.59E+00	3.53E+00	<1	<25	<25	<25	<25	<25	<25	1.10E+03	<25
	Plume Edge	1.71E-01	1.32E-01	8.15E-02	6.27E-02	7.65E-02	5.88E-02	<1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	8.45E+00	6.50E+00	4.18E+00	3.22E+00	3.95E+00	3.04E+00	<1	<25	<25	<25	<25	<25	<25	8.76E+02	<25
	Mid Centerline	5.07E+00	3.90E+00	2.51E+00	1.93E+00	2.37E+00	1.82E+00	<1	<25	<25	<25	<25	<25	<25	5.25E+02	<25
	Plume Edge	8.45E-02	6.50E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	7.13E+00	5.48E+00	4.10E+00	3.15E+00	3.93E+00	3.02E+00	<1	<25	<25	<25	<25	<25	<25	5.44E+02	<25
	Mid Centerline	4.28E+00	3.29E+00	2.46E+00	1.89E+00	2.36E+00	1.81E+00	<1	<25	<25	<25	<25	<25	<25	3.26E+02	<25
	Plume Edge	7.13E-02	5.48E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	5.69E+00	4.37E+00	3.43E+00	2.64E+00	3.30E+00	2.54E+00	<1	<25	<25	<25	<25	<25	<25	3.74E+02	<25
	Mid Centerline	3.41E+00	2.62E+00	2.06E+00	1.58E+00	1.98E+00	1.52E+00	<1	<25	<25	<25	<25	<25	<25	2.24E+02	<25
	Plume Edge	5.69E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	3.95E+00	3.04E+00	2.39E+00	1.84E+00	2.31E+00	1.77E+00	<1	<25	<25	<25	<25	<25	<25	2.58E+02	<25
	Mid Centerline	2.37E+00	1.82E+00	1.44E+00	1.10E+00	1.38E+00	1.06E+00	<1	<25	<25	<25	<25	<25	<25	1.55E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	3.06E+00	2.35E+00	1.90E+00	1.46E+00	1.83E+00	1.41E+00	<1	<25	<25	<25	<25	<25	<25	1.88E+02	<25
	Mid Centerline	1.83E+00	1.41E+00	1.14E+00	8.76E-01	1.10E+00	8.47E-01	<1	<25	<25	<25	<25	<25	<25	1.13E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	3.35E+00	2.58E+00	2.34E+00	1.80E+00	2.28E+00	1.76E+00	<1	<25	<25	<25	<25	<25	<25	1.52E+02	<25
	Mid Centerline	2.01E+00	1.55E+00	1.40E+00	1.08E+00	1.37E+00	1.05E+00	<1	<25	<25	<25	<25	<25	<25	9.14E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine			Particulate			Smear	
12:15	05:15	3 inches/10 cm		30/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
9	Centerline	3.10E+00	2.39E+00	2.24E+00	1.72E+00	2.19E+00	1.68E+00	<1	<25	<25	<25	<25	<25	<25	1.26E+02	<25
	Mid Centerline	1.86E+00	1.43E+00	1.34E+00	1.03E+00	1.31E+00	1.01E+00	<1	<25	<25	<25	<25	<25	<25	7.54E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	9.96E+01	<25
10	Centerline	2.49E+00	1.92E+00	1.80E+00	1.39E+00	1.76E+00	1.36E+00	<1	<25	<25	<25	<25	<25	<25	5.97E+01	<25
	Mid Centerline	1.50E+00	1.15E+00	1.08E+00	8.32E-01	1.06E+00	8.14E-01	<1	<25	<25	<25	<25	<25	<25	5.97E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	5.97E+01	<25
15	Centerline	3.04E+00	2.33E+00	2.63E+00	2.02E+00	2.61E+00	2.01E+00	<1	<25	<25	<25	5.29E+01	3.97E+01	<25	5.12E+01	<25
	Mid Centerline	1.82E+00	1.40E+00	1.58E+00	1.21E+00	1.57E+00	1.20E+00	<1	<25	<25	<25	3.17E+01	<25	<25	3.07E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	3.07E+01	<25
20	Centerline	3.66E+00	2.81E+00	3.34E+00	2.57E+00	3.33E+00	2.56E+00	<1	<25	<25	<25	2.63E+03	1.97E+03	5.26E+02	3.65E+01	<25
	Mid Centerline	2.19E+00	1.69E+00	2.01E+00	1.54E+00	2.00E+00	1.54E+00	<1	<25	<25	<25	1.58E+03	1.18E+03	3.16E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	2.63E+01	<25	<25	<25	<25
25	Centerline	3.16E-01	2.43E-01	2.91E-01	2.24E-01	2.89E-01	2.22E-01	<1	<25	<25	<25	2.85E+02	2.14E+02	5.70E+01	<25	<25
	Mid Centerline	1.90E-01	1.46E-01	1.74E-01	1.34E-01	1.73E-01	1.33E-01	<1	<25	<25	<25	1.71E+02	1.28E+02	3.42E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.



## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
12:15	05:15	3R/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.27E+03	9.78E+02	24	<25	<25	<25	1.65E+06	1.65E+06	4.58E+02
	Mid Centerline	7.63E+02	5.87E+02	15	<25	<25	<25	9.89E+05	9.89E+05	2.75E+02
	Plume Edge	1.27E+01	9.78E+00	<1	<25	<25	<25	1.65E+04	1.65E+04	<25
200 feet	Centerline	6.05E+02	4.66E+02	15	<25	<25	<25	6.74E+05	6.74E+05	1.87E+02
	Mid Centerline	3.63E+02	2.79E+02	9	<25	<25	<25	4.05E+05	4.05E+05	1.12E+02
	Plume Edge	6.05E+00	4.66E+00	<1	<25	<25	<25	6.74E+03	6.74E+03	<25
400 feet	Centerline	3.48E+02	2.67E+02	12	<25	<25	<25	3.04E+05	3.04E+05	8.46E+01
	Mid Centerline	2.09E+02	1.60E+02	7	<25	<25	<25	1.83E+05	1.83E+05	5.08E+01
	Plume Edge	3.48E+00	2.67E+00	<1	<25	<25	<25	3.04E+03	3.04E+03	<25
800 feet	Centerline	1.97E+02	1.52E+02	8	<25	<25	<25	1.36E+05	1.36E+05	3.77E+01
	Mid Centerline	1.18E+02	9.11E+01	5	<25	<25	<25	8.13E+04	8.13E+04	<25
	Plume Edge	1.97E+00	1.52E+00	<1	<25	<25	<25	1.36E+03	1.36E+03	<25
1200 feet	Centerline	1.36E+02	1.05E+02	6	<25	<25	<25	7.88E+04	7.88E+04	<25
	Mid Centerline	8.18E+01	6.29E+01	4	<25	<25	<25	4.73E+04	4.73E+04	<25
	Plume Edge	1.36E+00	1.05E+00	<1	<25	<25	<25	7.88E+02	7.88E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
12:15	05:15	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.02E+03	7.83E+02	20	<25	<25	<25	1.32E+06	1.32E+06	3.67E+02
	Mid Centerline	6.11E+02	4.70E+02	12	<25	<25	<25	7.91E+05	7.91E+05	2.20E+02
	Plume Edge	1.02E+01	7.83E+00	<1	<25	<25	<25	1.32E+04	1.32E+04	<25
200 feet	Centerline	4.84E+02	3.73E+02	12	<25	<25	<25	5.40E+05	5.40E+05	1.50E+02
	Mid Centerline	2.91E+02	2.24E+02	7	<25	<25	<25	3.24E+05	3.24E+05	9.00E+01
	Plume Edge	4.84E+00	3.73E+00	<1	<25	<25	<25	5.40E+03	5.40E+03	<25
400 feet	Centerline	2.78E+02	2.14E+02	9	<25	<25	<25	2.43E+05	2.43E+05	6.77E+01
	Mid Centerline	1.67E+02	1.28E+02	6	<25	<25	<25	1.46E+05	1.46E+05	4.06E+01
	Plume Edge	2.78E+00	2.14E+00	<1	<25	<25	<25	2.43E+03	2.43E+03	<25
800 feet	Centerline	1.58E+02	1.21E+02	6	<25	<25	<25	1.08E+05	1.08E+05	3.01E+01
	Mid Centerline	9.47E+01	7.29E+01	4	<25	<25	<25	6.51E+04	6.51E+04	<25
	Plume Edge	1.58E+00	1.21E+00	<1	<25	<25	<25	1.08E+03	1.08E+03	<25
1200 feet	Centerline	1.09E+02	8.39E+01	5	<25	<25	<25	6.31E+04	6.31E+04	<25
	Mid Centerline	6.54E+01	5.03E+01	3	<25	<25	<25	3.78E+04	3.78E+04	<25
	Plume Edge	1.09E+00	8.39E-01	<1	<25	<25	<25	6.31E+02	6.31E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
12:15	05:15	3 inches/10 cm		3ft/1 Meter		5 Ft					14C Pancake probe ncpm/100 cm2	mr/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
0.75	Centerline	8.57E+01	6.59E+01	3.36E+01	2.58E+01	3.07E+01	2.36E+01	1.78E+00	<25	<25	1.07E+04	<25
	Mid Centerline	5.14E+01	3.95E+01	2.01E+01	1.55E+01	1.84E+01	1.42E+01	1.07E+00	<25	<25	6.43E+03	<25
	Plume Edge	8.57E-01	6.59E-01	3.36E-01	2.58E-01	3.07E-01	2.36E-01	<1	<25	<25	1.07E+02	<25
1	Centerline	5.46E+01	4.20E+01	2.30E+01	1.77E+01	2.13E+01	1.64E+01	1.25E+00	<25	<25	6.48E+03	<25
	Mid Centerline	3.27E+01	2.52E+01	1.38E+01	1.06E+01	1.28E+01	9.82E+00	<1	<25	<25	3.89E+03	<25
	Plume Edge	5.46E-01	4.20E-01	2.30E-01	1.77E-01	2.13E-01	1.64E-01	<1	<25	<25	6.48E+01	<25
2	Centerline	1.71E+01	1.32E+01	8.15E+00	6.27E+00	7.65E+00	5.88E+00	<1	<25	<25	1.84E+03	<25
	Mid Centerline	1.03E+01	7.89E+00	4.89E+00	3.76E+00	4.59E+00	3.53E+00	<1	<25	<25	1.10E+03	<25
	Plume Edge	1.71E-01	1.32E-01	8.15E-02	6.27E-02	7.65E-02	5.88E-02	<1	<25	<25	<25	<25
3	Centerline	8.45E+00	6.50E+00	4.18E+00	3.22E+00	3.95E+00	3.04E+00	<1	<25	<25	8.76E+02	<25
	Mid Centerline	5.07E+00	3.90E+00	2.51E+00	1.93E+00	2.37E+00	1.82E+00	<1	<25	<25	5.25E+02	<25
	Plume Edge	8.45E-02	6.50E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25
4	Centerline	7.13E+00	5.48E+00	4.10E+00	3.15E+00	3.93E+00	3.02E+00	<1	<25	<25	5.44E+02	<25
	Mid Centerline	4.28E+00	3.29E+00	2.46E+00	1.89E+00	2.36E+00	1.81E+00	<1	<25	<25	3.26E+02	<25
	Plume Edge	7.13E-02	5.48E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Centerline	5.69E+00	4.37E+00	3.43E+00	2.64E+00	3.30E+00	2.54E+00	<1	<25	<25	3.74E+02	<25
	Mid Centerline	3.41E+00	2.62E+00	2.06E+00	1.58E+00	1.98E+00	1.52E+00	<1	<25	<25	2.24E+02	<25
	Plume Edge	5.69E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Centerline	3.95E+00	3.04E+00	2.39E+00	1.84E+00	2.31E+00	1.77E+00	<1	<25	<25	2.58E+02	<25
	Mid Centerline	2.37E+00	1.82E+00	1.44E+00	1.10E+00	1.38E+00	1.06E+00	<1	<25	<25	1.55E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Centerline	3.06E+00	2.35E+00	1.90E+00	1.46E+00	1.83E+00	1.41E+00	<1	<25	<25	1.88E+02	<25
	Mid Centerline	1.83E+00	1.41E+00	1.14E+00	8.76E-01	1.10E+00	8.47E-01	<1	<25	<25	1.13E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Centerline	3.35E+00	2.58E+00	2.34E+00	1.80E+00	2.28E+00	1.76E+00	<1	<25	<25	1.52E+02	<25
	Mid Centerline	2.01E+00	1.55E+00	1.40E+00	1.08E+00	1.37E+00	1.05E+00	<1	<25	<25	9.14E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
12:15	05:15	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	3.10E+00	2.39E+00	2.24E+00	1.72E+00	2.19E+00	1.68E+00	<1	<25	<25	1.26E+02	<25
9	Mid Centerline	1.86E+00	1.43E+00	1.34E+00	1.03E+00	1.31E+00	1.01E+00	<1	<25	<25	7.54E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	2.49E+00	1.92E+00	1.80E+00	1.39E+00	1.76E+00	1.36E+00	<1	<25	<25	9.96E+01	<25
10	Mid Centerline	1.50E+00	1.15E+00	1.08E+00	8.32E-01	1.06E+00	8.14E-01	<1	<25	<25	5.97E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	3.04E+00	2.33E+00	2.63E+00	2.02E+00	2.61E+00	2.01E+00	<1	<25	2.64E+01	5.12E+01	<25
15	Mid Centerline	1.82E+00	1.40E+00	1.58E+00	1.21E+00	1.57E+00	1.20E+00	<1	<25	<25	3.07E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	3.66E+00	2.81E+00	3.34E+00	2.57E+00	3.33E+00	2.56E+00	<1	1.15E+03	1.31E+03	3.65E+01	<25
20	Mid Centerline	2.19E+00	1.69E+00	2.01E+00	1.54E+00	2.00E+00	1.54E+00	<1	6.89E+02	7.89E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	3.16E-01	2.43E-01	2.91E-01	2.24E-01	2.89E-01	2.22E-01	<1	1.25E+02	1.43E+02	<25	<25
25	Mid Centerline	1.90E-01	1.46E-01	1.74E-01	1.34E-01	1.73E-01	1.33E-01	<1	7.47E+01	8.55E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
30	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
12:15	05:15	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mr/hr per smear	
0.75	Centerline	8.57E+01	6.59E+01	3.36E+01	2.58E+01	3.07E+01	2.36E+01	1.78E+00	<25	<25	<25	1.07E+04	1.07E+04	<25	
	Mid Centerline	5.14E+01	3.95E+01	2.01E+01	1.55E+01	1.84E+01	1.42E+01	1.07E+00	<25	<25	<25	6.43E+03	6.43E+03	<25	
	Plume Edge	8.57E-01	6.59E-01	3.36E-01	2.58E-01	3.07E-01	2.36E-01	<1	<25	<25	<25	1.07E+02	1.07E+02	<25	
1	Centerline	5.46E+01	4.20E+01	2.30E+01	1.77E+01	2.13E+01	1.64E+01	1.25E+00	<25	<25	<25	6.48E+03	6.48E+03	<25	
	Mid Centerline	3.27E+01	2.52E+01	1.38E+01	1.06E+01	1.28E+01	9.82E+00	<1	<25	<25	<25	3.89E+03	3.89E+03	<25	
	Plume Edge	5.46E-01	4.20E-01	2.30E-01	1.77E-01	2.13E-01	1.64E-01	<1	<25	<25	<25	6.48E+01	6.48E+01	<25	
2	Centerline	1.71E+01	1.32E+01	8.15E+00	6.27E+00	7.65E+00	5.88E+00	<1	<25	<25	<25	1.84E+03	1.84E+03	<25	
	Mid Centerline	1.03E+01	7.89E+00	4.89E+00	3.76E+00	4.59E+00	3.53E+00	<1	<25	<25	<25	1.10E+03	1.10E+03	<25	
	Plume Edge	1.71E-01	1.32E-01	8.15E-02	6.27E-02	7.65E-02	5.88E-02	<1	<25	<25	<25	<25	<25	<25	
3	Centerline	8.45E+00	6.50E+00	4.18E+00	3.22E+00	3.95E+00	3.04E+00	<1	<25	<25	<25	8.76E+02	8.76E+02	<25	
	Mid Centerline	5.07E+00	3.90E+00	2.51E+00	1.93E+00	2.37E+00	1.82E+00	<1	<25	<25	<25	5.25E+02	5.25E+02	<25	
	Plume Edge	8.45E-02	6.50E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
4	Centerline	7.13E+00	5.48E+00	4.10E+00	3.15E+00	3.93E+00	3.02E+00	<1	<25	<25	<25	5.44E+02	5.44E+02	<25	
	Mid Centerline	4.28E+00	3.29E+00	2.46E+00	1.89E+00	2.36E+00	1.81E+00	<1	<25	<25	<25	3.26E+02	3.26E+02	<25	
	Plume Edge	7.13E-02	5.48E-02	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
5	Centerline	5.69E+00	4.37E+00	3.43E+00	2.64E+00	3.30E+00	2.54E+00	<1	<25	<25	<25	3.74E+02	3.74E+02	<25	
	Mid Centerline	3.41E+00	2.62E+00	2.06E+00	1.58E+00	1.98E+00	1.52E+00	<1	<25	<25	<25	2.24E+02	2.24E+02	<25	
	Plume Edge	5.69E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
6	Centerline	3.95E+00	3.04E+00	2.39E+00	1.84E+00	2.31E+00	1.77E+00	<1	<25	<25	<25	2.58E+02	2.58E+02	<25	
	Mid Centerline	2.37E+00	1.82E+00	1.44E+00	1.10E+00	1.38E+00	1.06E+00	<1	<25	<25	<25	1.55E+02	1.55E+02	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
7	Centerline	3.06E+00	2.35E+00	1.90E+00	1.46E+00	1.83E+00	1.41E+00	<1	<25	<25	<25	1.88E+02	1.88E+02	<25	
	Mid Centerline	1.83E+00	1.41E+00	1.14E+00	8.76E-01	1.10E+00	8.47E-01	<1	<25	<25	<25	1.13E+02	1.13E+02	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
8	Centerline	3.35E+00	2.58E+00	2.34E+00	1.80E+00	2.28E+00	1.76E+00	<1	<25	<25	<25	1.52E+02	1.52E+02	<25	
	Mid Centerline	2.01E+00	1.55E+00	1.40E+00	1.08E+00	1.37E+00	1.05E+00	<1	<25	<25	<25	9.14E+01	9.14E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
12:15	05:15	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	ucpm per 100 cm2	nepm per 100 cm2	mr/hr per smear	
9	Centerline	3.10E+00	2.39E+00	2.24E+00	1.72E+00	2.19E+00	1.68E+00	<1	<25	<25	<25	1.26E+02	1.26E+02	<25	
	Mid Centerline	1.86E+00	1.43E+00	1.34E+00	1.03E+00	1.31E+00	1.01E+00	<1	<25	<25	<25	7.54E+01	7.54E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
10	Centerline	2.49E+00	1.92E+00	1.80E+00	1.39E+00	1.76E+00	1.36E+00	<1	<25	<25	<25	9.96E+01	9.96E+01	<25	
	Mid Centerline	1.50E+00	1.15E+00	1.08E+00	8.32E-01	1.06E+00	8.14E-01	<1	<25	<25	<25	5.97E+01	5.97E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
15	Centerline	3.04E+00	2.33E+00	2.63E+00	2.02E+00	2.61E+00	2.01E+00	<1	2.31E+02	2.64E+01	2.64E+01	5.12E+01	5.12E+01	<25	
	Mid Centerline	1.82E+00	1.40E+00	1.58E+00	1.21E+00	1.57E+00	1.20E+00	<1	1.39E+02	<25	<25	3.07E+01	3.07E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
20	Centerline	3.66E+00	2.81E+00	3.34E+00	2.57E+00	3.33E+00	2.56E+00	<1	1.15E+04	1.31E+03	1.31E+03	3.65E+01	3.65E+01	<25	
	Mid Centerline	2.19E+00	1.69E+00	2.01E+00	1.54E+00	2.00E+00	1.54E+00	<1	6.89E+03	7.89E+02	7.89E+02	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	1.15E+02	<25	<25	<25	<25	<25	
25	Centerline	3.16E-01	2.43E-01	2.91E-01	2.24E-01	2.89E-01	2.22E-01	<1	1.25E+03	1.43E+02	1.43E+02	<25	<25	<25	
	Mid Centerline	1.90E-01	1.46E-01	1.74E-01	1.34E-01	1.73E-01	1.33E-01	<1	7.47E+02	8.55E+01	8.55E+01	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 12:15	Drill Time 05:15	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	8.57E+01	6.59E+01	3.36E+01	2.58E+01	3.07E+01	2.36E+01	1.78E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	5.14E+01	3.95E+01	2.01E+01	1.55E+01	1.84E+01	1.42E+01	1.07E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	8.57E-01	6.59E-01	3.36E-01	2.58E-01	3.07E-01	2.36E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	5.46E+01	4.20E+01	2.30E+01	1.77E+01	2.13E+01	1.64E+01	1.25E+00	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.27E+01	2.52E+01	1.38E+01	1.06E+01	1.28E+01	9.82E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	5.46E-01	4.20E-01	2.30E-01	1.77E-01	2.13E-01	1.64E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	1.71E+01	1.32E+01	8.15E+00	6.27E+00	7.65E+00	5.88E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.03E+01	7.89E+00	4.89E+00	3.76E+00	4.59E+00	3.53E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.71E-01	1.32E-01	8.15E-02	6.27E-02	7.65E-02	5.88E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	8.45E+00	6.50E+00	4.18E+00	3.22E+00	3.95E+00	3.04E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	5.07E+00	3.90E+00	2.51E+00	1.93E+00	2.37E+00	1.82E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	8.45E-02	6.50E-02	4.18E-02	3.22E-02	3.95E-02	3.04E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	7.13E+00	5.48E+00	4.10E+00	3.15E+00	3.93E+00	3.02E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	4.28E+00	3.29E+00	2.46E+00	1.89E+00	2.36E+00	1.81E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	7.13E-02	5.48E-02	4.10E-02	3.15E-02	3.93E-02	3.02E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	5.69E+00	4.37E+00	3.43E+00	2.64E+00	3.30E+00	2.54E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.41E+00	2.62E+00	2.06E+00	1.58E+00	1.98E+00	1.52E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	5.69E-02	4.37E-02	3.43E-02	2.64E-02	3.30E-02	2.54E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	3.95E+00	3.04E+00	2.39E+00	1.84E+00	2.31E+00	1.77E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.37E+00	1.82E+00	1.44E+00	1.10E+00	1.38E+00	1.06E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.95E-02	3.04E-02	2.39E-02	1.84E-02	2.31E-02	1.77E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	3.06E+00	2.35E+00	1.90E+00	1.46E+00	1.83E+00	1.41E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.83E+00	1.41E+00	1.14E+00	8.76E-01	1.10E+00	8.47E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.06E-02	2.35E-02	1.90E-02	1.46E-02	1.83E-02	1.41E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	3.35E+00	2.58E+00	2.34E+00	1.80E+00	2.28E+00	1.76E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.01E+00	1.55E+00	1.40E+00	1.08E+00	1.37E+00	1.05E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.35E-02	2.58E-02	2.34E-02	1.80E-02	2.28E-02	1.76E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 12:15	Drill Time 05:15	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	3.10E+00	2.39E+00	2.24E+00	1.72E+00	2.19E+00	1.68E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.86E+00	1.43E+00	1.34E+00	1.03E+00	1.31E+00	1.01E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.10E-02	2.39E-02	2.24E-02	1.72E-02	2.19E-02	1.68E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
10	Centerline	2.49E+00	1.92E+00	1.80E+00	1.39E+00	1.76E+00	1.36E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.50E+00	1.15E+00	1.08E+00	8.32E-01	1.06E+00	8.14E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.49E-02	1.92E-02	1.80E-02	1.39E-02	1.76E-02	1.36E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
15	Centerline	3.04E+00	2.33E+00	2.63E+00	2.02E+00	2.61E+00	2.01E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.02
	Mid Centerline	1.82E+00	1.40E+00	1.58E+00	1.21E+00	1.57E+00	1.20E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.01
	Plume Edge	3.04E-02	2.33E-02	2.63E-02	2.02E-02	2.61E-02	2.01E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	3.66E+00	2.81E+00	3.34E+00	2.57E+00	3.33E+00	2.56E+00	<1	1.83E-08	<0.01	0.02	2.09E-08	0.22	0.91
	Mid Centerline	2.19E+00	1.69E+00	2.01E+00	1.54E+00	2.00E+00	1.54E+00	<1	1.10E-08	<0.01	<0.01	1.25E-08	0.13	0.55
	Plume Edge	3.66E-02	2.81E-02	3.34E-02	2.57E-02	3.33E-02	2.56E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	3.16E-01	2.43E-01	2.91E-01	2.24E-01	2.89E-01	2.22E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.10
	Mid Centerline	1.90E-01	1.46E-01	1.74E-01	1.34E-01	1.73E-01	1.33E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.06
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01



# Nebraska Field Team Data

Real Time 12:30	Drill Time 05:30	Survey Meter						Dose	Iodine			Particulate			Smear	
		3 inches/10 cm		3R/1 Meter		5 Ft			Contact ncpm/ 10 ft3	SIH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	Contact ncpm/ 10 ft3	SIH-4 ncpm/ 10 ft3	1.5 inch ncpm/ 10 ft3	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)								
0.75	Centerline	6.90E+01	5.31E+01	1.96E+01	1.51E+01	1.69E+01	1.30E+01	<1	<25	<25	<25	<25	<25	<25	1.05E+04	<25
	Mid Centerline	4.14E+01	3.19E+01	1.18E+01	9.06E+00	1.01E+01	7.79E+00	<1	<25	<25	<25	<25	<25	<25	6.28E+03	<25
	Plume Edge	6.90E-01	5.31E-01	1.96E-01	1.51E-01	1.69E-01	1.30E-01	<1	<25	<25	<25	<25	<25	<25	1.05E+02	<25
1	Centerline	4.32E+01	3.32E+01	1.33E+01	1.02E+01	1.16E+01	8.92E+00	<1	<25	<25	<25	<25	<25	<25	6.33E+03	<25
	Mid Centerline	2.59E+01	1.99E+01	7.96E+00	6.12E+00	6.96E+00	5.35E+00	<1	<25	<25	<25	<25	<25	<25	3.80E+03	<25
	Plume Edge	4.32E-01	3.32E-01	1.33E-01	1.02E-01	1.16E-01	8.92E-02	<1	<25	<25	<25	<25	<25	<25	6.33E+01	<25
2	Centerline	1.31E+01	1.01E+01	4.58E+00	3.53E+00	4.11E+00	3.16E+00	<1	<25	<25	<25	<25	<25	<25	1.80E+03	<25
	Mid Centerline	7.84E+00	6.03E+00	2.75E+00	2.12E+00	2.47E+00	1.90E+00	<1	<25	<25	<25	<25	<25	<25	1.08E+03	<25
	Plume Edge	1.31E-01	1.01E-01	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
3	Centerline	6.38E+00	4.91E+00	2.34E+00	1.80E+00	2.11E+00	1.63E+00	<1	<25	<25	<25	<25	<25	<25	8.55E+02	<25
	Mid Centerline	3.83E+00	2.95E+00	1.40E+00	1.08E+00	1.27E+00	9.75E-01	<1	<25	<25	<25	<25	<25	<25	5.13E+02	<25
	Plume Edge	6.38E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
4	Centerline	5.09E+00	3.92E+00	2.21E+00	1.70E+00	2.05E+00	1.58E+00	<1	<25	<25	<25	<25	<25	<25	5.31E+02	<25
	Mid Centerline	3.05E+00	2.35E+00	1.33E+00	1.02E+00	1.23E+00	9.48E-01	<1	<25	<25	<25	<25	<25	<25	3.18E+02	<25
	Plume Edge	5.09E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
5	Centerline	3.98E+00	3.06E+00	1.83E+00	1.41E+00	1.72E+00	1.32E+00	<1	<25	<25	<25	<25	<25	<25	3.65E+02	<25
	Mid Centerline	2.39E+00	1.83E+00	1.10E+00	8.47E-01	1.03E+00	7.92E-01	<1	<25	<25	<25	<25	<25	<25	2.19E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
6	Centerline	2.76E+00	2.12E+00	1.28E+00	9.84E-01	1.20E+00	9.20E-01	<1	<25	<25	<25	<25	<25	<25	2.52E+02	<25
	Mid Centerline	1.66E+00	1.27E+00	7.67E-01	5.90E-01	7.18E-01	5.52E-01	<1	<25	<25	<25	<25	<25	<25	1.51E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
7	Centerline	2.11E+00	1.62E+00	1.01E+00	7.76E-01	9.48E-01	7.29E-01	<1	<25	<25	<25	<25	<25	<25	1.83E+02	<25
	Mid Centerline	1.26E+00	9.72E-01	6.05E-01	4.65E-01	5.69E-01	4.37E-01	<1	<25	<25	<25	<25	<25	<25	1.10E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
8	Centerline	2.17E+00	1.67E+00	1.21E+00	9.31E-01	1.16E+00	8.90E-01	<1	<25	<25	<25	<25	<25	<25	1.49E+02	<25
	Mid Centerline	1.30E+00	1.00E+00	7.26E-01	5.59E-01	6.94E-01	5.34E-01	<1	<25	<25	<25	<25	<25	<25	8.93E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

# Nebraska Field Team Data

Real Time	Drift Time	Survey Meter						Dose	Iodine			Particulate			Smear	
12:30	05:30	3 inches/10 cm		3ft/1 Meter		5 Ft			Contact	SIH-4	1.5 inch	Contact	SIH-4	1.5 inch	ncpm per 100 cm2	mR/hr per smear
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3	ncpm/ 10 ft3		
9	Centerline	1.97E+00	1.51E+00	1.15E+00	8.85E-01	1.10E+00	8.50E-01	<1	<25	<25	<25	<25	<25	<25	1.23E+02	<25
	Mid Centerline	1.18E+00	9.09E-01	6.90E-01	5.31E-01	6.63E-01	5.10E-01	<1	<25	<25	<25	<25	<25	<25	7.37E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	9.73E+01	<25
10	Centerline	1.58E+00	1.22E+00	9.25E-01	7.12E-01	8.89E-01	6.84E-01	<1	<25	<25	<25	<25	<25	<25	5.84E+01	<25
	Mid Centerline	9.48E-01	7.29E-01	5.55E-01	4.27E-01	5.33E-01	4.10E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	5.02E+01	<25
15	Centerline	1.64E+00	1.26E+00	1.26E+00	9.67E-01	1.24E+00	9.50E-01	<1	<25	<25	<25	<25	<25	<25	3.01E+01	<25
	Mid Centerline	9.84E-01	7.57E-01	7.54E-01	5.80E-01	7.41E-01	5.70E-01	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
20	Centerline	2.72E+00	2.09E+00	2.39E+00	1.84E+00	2.38E+00	1.83E+00	<1	<25	<25	<25	2.63E+02	1.97E+02	5.25E+01	3.86E+01	<25
	Mid Centerline	1.63E+00	1.25E+00	1.44E+00	1.11E+00	1.43E+00	1.10E+00	<1	<25	<25	<25	1.58E+02	1.18E+02	3.15E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
25	Centerline	2.34E+00	1.80E+00	2.14E+00	1.64E+00	2.13E+00	1.64E+00	<1	<25	<25	<25	1.96E+03	1.47E+03	3.91E+02	<25	<25
	Mid Centerline	1.41E+00	1.08E+00	1.28E+00	9.87E-01	1.28E+00	9.81E-01	<1	<25	<25	<25	1.17E+03	8.80E+02	2.35E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
30	Centerline	1.02E-01	7.84E-02	9.31E-02	7.17E-02	9.27E-02	7.13E-02	<1	<25	<25	<25	9.42E+01	7.07E+01	<25	<25	<25
	Mid Centerline	6.11E-02	as read	5.59E-02	as read	5.56E-02	as read	<1	<25	<25	<25	5.65E+01	4.24E+01	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	<25	<25

NOTE: Data outside isopleths are referred to "As Read". Refer to Fort Calhoun Station site map for location of plume.

## Fort Calhoun Onsite Data (Outside Plant Buildings)

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
12:30	05:30	3R/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mR/hr per smear
100 feet	Centerline	1.04E+03	7.99E+02	12	<25	<25	<25	1.61E+06	1.61E+06	4.47E+02
	Mid Centerline	6.23E+02	4.79E+02	7	<25	<25	<25	9.65E+05	9.65E+05	2.68E+02
	Plume Edge	1.04E+01	7.99E+00	<1	<25	<25	<25	1.61E+04	1.61E+04	<25
200 feet	Centerline	4.68E+02	3.60E+02	8	<25	<25	<25	6.58E+05	6.58E+05	1.83E+02
	Mid Centerline	2.81E+02	2.16E+02	5	<25	<25	<25	3.95E+05	3.95E+05	1.10E+02
	Plume Edge	4.68E+00	3.60E+00	<1	<25	<25	<25	6.58E+03	6.58E+03	<25
400 feet	Centerline	2.49E+02	1.92E+02	6	<25	<25	<25	2.97E+05	2.97E+05	8.26E+01
	Mid Centerline	1.49E+02	1.15E+02	4	<25	<25	<25	1.78E+05	1.78E+05	4.95E+01
	Plume Edge	2.49E+00	1.92E+00	<1	<25	<25	<25	2.97E+03	2.97E+03	<25
800 feet	Centerline	1.33E+02	1.02E+02	4	<25	<25	<25	1.32E+05	1.32E+05	3.68E+01
	Mid Centerline	7.96E+01	6.12E+01	2	<25	<25	<25	7.94E+04	7.94E+04	<25
	Plume Edge	1.33E+00	1.02E+00	<1	<25	<25	<25	1.32E+03	1.32E+03	<25
1200 feet	Centerline	8.81E+01	6.78E+01	3	<25	<25	<25	7.69E+04	7.69E+04	<25
	Mid Centerline	5.29E+01	4.07E+01	2	<25	<25	<25	4.62E+04	4.62E+04	<25
	Plume Edge	8.81E-01	6.78E-01	<1	<25	<25	<25	7.69E+02	7.69E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

**Fort Calhoun Onsite Data (Inside Plant Buildings)**  
**(OSC, CARP, Maint. Shop, Warehouse, Intake Structure, Security Bldg., Admin. Bldg., Training Center, etc.)**

Real Time	Drill Time	Dose Rates		Dose	Iodine	Particulate		Smears		
12:30	05:30	3ft/1 Meter		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Feet from Center of Containment	Plume Location	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	nepm/10 ft3	nepm/10 ft3	nepm per 100 cm2	nepm per 100 cm2	mR/hr per smear
	Centerline	8.31E+02	6.39E+02	10	<25	<25	<25	1.29E+06	1.29E+06	3.58E+02
100 feet	Mid Centerline	4.99E+02	3.84E+02	6	<25	<25	<25	7.72E+05	7.72E+05	2.15E+02
	Plume Edge	8.31E+00	6.39E+00	<1	<25	<25	<25	1.29E+04	1.29E+04	<25
	Centerline	3.75E+02	2.88E+02	6	<25	<25	<25	5.27E+05	5.27E+05	1.46E+02
200 feet	Mid Centerline	2.25E+02	1.73E+02	4	<25	<25	<25	3.16E+05	3.16E+05	8.78E+01
	Plume Edge	3.75E+00	2.88E+00	<1	<25	<25	<25	5.27E+03	5.27E+03	<25
	Centerline	1.99E+02	1.53E+02	5	<25	<25	<25	2.38E+05	2.38E+05	6.60E+01
400 feet	Mid Centerline	1.20E+02	9.20E+01	3	<25	<25	<25	1.43E+05	1.43E+05	3.96E+01
	Plume Edge	1.99E+00	1.53E+00	<1	<25	<25	<25	2.38E+03	2.38E+03	<25
	Centerline	1.06E+02	8.16E+01	3	<25	<25	<25	1.06E+05	1.06E+05	2.94E+01
800 feet	Mid Centerline	6.37E+01	4.90E+01	2	<25	<25	<25	6.35E+04	6.35E+04	<25
	Plume Edge	1.06E+00	8.16E-01	<1	<25	<25	<25	1.06E+03	1.06E+03	<25
	Centerline	7.05E+01	5.42E+01	2	<25	<25	<25	6.15E+04	6.15E+04	<25
1200 feet	Mid Centerline	4.23E+01	3.25E+01	1	<25	<25	<25	3.69E+04	3.69E+04	<25
	Plume Edge	7.05E-01	5.42E-01	<1	<25	<25	<25	6.15E+02	6.15E+02	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
12:30	05:30	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
0.75	Centerline	6.90E+01	5.31E+01	1.96E+01	1.51E+01	1.69E+01	1.30E+01	<1	<25	<25	1.05E+04	<25
	Mid Centerline	4.14E+01	3.19E+01	1.18E+01	9.06E+00	1.01E+01	7.79E+00	<1	<25	<25	6.28E+03	<25
	Plume Edge	6.90E-01	5.31E-01	1.96E-01	1.51E-01	1.69E-01	1.30E-01	<1	<25	<25	1.05E+02	<25
1	Centerline	4.32E+01	3.32E+01	1.33E+01	1.02E+01	1.16E+01	8.92E+00	<1	<25	<25	6.33E+03	<25
	Mid Centerline	2.59E+01	1.99E+01	7.96E+00	6.12E+00	6.96E+00	5.35E+00	<1	<25	<25	3.80E+03	<25
	Plume Edge	4.32E-01	3.32E-01	1.33E-01	1.02E-01	1.16E-01	8.92E-02	<1	<25	<25	6.33E+01	<25
2	Centerline	1.31E+01	1.01E+01	4.58E+00	3.53E+00	4.11E+00	3.16E+00	<1	<25	<25	1.80E+03	<25
	Mid Centerline	7.84E+00	6.03E+00	2.75E+00	2.12E+00	2.47E+00	1.90E+00	<1	<25	<25	1.08E+03	<25
	Plume Edge	1.31E-01	1.01E-01	as read	as read	as read	as read	<1	<25	<25	<25	<25
3	Centerline	6.38E+00	4.91E+00	2.34E+00	1.80E+00	2.11E+00	1.63E+00	<1	<25	<25	8.55E+02	<25
	Mid Centerline	3.83E+00	2.95E+00	1.40E+00	1.08E+00	1.27E+00	9.75E-01	<1	<25	<25	5.13E+02	<25
	Plume Edge	6.38E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
4	Centerline	5.09E+00	3.92E+00	2.21E+00	1.70E+00	2.05E+00	1.58E+00	<1	<25	<25	5.31E+02	<25
	Mid Centerline	3.05E+00	2.35E+00	1.33E+00	1.02E+00	1.23E+00	9.48E-01	<1	<25	<25	3.18E+02	<25
	Plume Edge	5.09E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
5	Centerline	3.98E+00	3.06E+00	1.83E+00	1.41E+00	1.72E+00	1.32E+00	<1	<25	<25	3.65E+02	<25
	Mid Centerline	2.39E+00	1.83E+00	1.10E+00	8.47E-01	1.03E+00	7.92E-01	<1	<25	<25	2.19E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
6	Centerline	2.76E+00	2.12E+00	1.28E+00	9.84E-01	1.20E+00	9.20E-01	<1	<25	<25	2.52E+02	<25
	Mid Centerline	1.66E+00	1.27E+00	7.67E-01	5.90E-01	7.18E-01	5.52E-01	<1	<25	<25	1.51E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
7	Centerline	2.11E+00	1.62E+00	1.01E+00	7.76E-01	9.48E-01	7.29E-01	<1	<25	<25	1.83E+02	<25
	Mid Centerline	1.26E+00	9.72E-01	6.05E-01	4.65E-01	5.69E-01	4.37E-01	<1	<25	<25	1.10E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
8	Centerline	2.17E+00	1.67E+00	1.21E+00	9.31E-01	1.16E+00	8.90E-01	<1	<25	<25	1.49E+02	<25
	Mid Centerline	1.30E+00	1.00E+00	7.26E-01	5.59E-01	6.94E-01	5.34E-01	<1	<25	<25	8.93E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## Iowa Field Team Data

Real Time	Drill Time	Survey Meter						Dose	Iodine	Particulate	Smear	
12:30	05:30	3 inches/10 cm		3ft/1 Meter		5 Ft						
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	SRD Per 5 Min (mR)	E-600 270 probe ncpm/10 ft3	E-600 270 probe ncpm/10 ft3	14C Pancake probe ncpm/100 cm2	mr/hr per smear
	Centerline	1.97E+00	1.51E+00	1.15E+00	8.85E-01	1.10E+00	8.50E-01	<1	<25	<25	1.23E+02	<25
9	Mid Centerline	1.18E+00	9.09E-01	6.90E-01	5.31E-01	6.63E-01	5.10E-01	<1	<25	<25	7.37E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	1.58E+00	1.22E+00	9.25E-01	7.12E-01	8.89E-01	6.84E-01	<1	<25	<25	9.73E+01	<25
10	Mid Centerline	9.48E-01	7.29E-01	5.55E-01	4.27E-01	5.33E-01	4.10E-01	<1	<25	<25	5.84E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	1.64E+00	1.26E+00	1.26E+00	9.67E-01	1.24E+00	9.50E-01	<1	<25	<25	5.02E+01	<25
15	Mid Centerline	9.84E-01	7.57E-01	7.54E-01	5.80E-01	7.41E-01	5.70E-01	<1	<25	<25	3.01E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	2.72E+00	2.09E+00	2.39E+00	1.84E+00	2.38E+00	1.83E+00	<1	1.14E+02	1.31E+02	3.86E+01	<25
20	Mid Centerline	1.63E+00	1.25E+00	1.44E+00	1.11E+00	1.43E+00	1.10E+00	<1	6.87E+01	7.88E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	2.34E+00	1.80E+00	2.14E+00	1.64E+00	2.13E+00	1.64E+00	<1	8.52E+02	9.78E+02	<25	<25
25	Mid Centerline	1.41E+00	1.08E+00	1.28E+00	9.87E-01	1.28E+00	9.81E-01	<1	5.11E+02	5.87E+02	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	1.02E-01	7.84E-02	9.31E-02	7.17E-02	9.27E-02	7.13E-02	<1	4.11E+01	4.71E+01	<25	<25
30	Mid Centerline	6.11E-02	as read	5.59E-02	as read	5.56E-02	as read	<1	<25	2.83E+01	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

# OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate		Smears		
12:30	05:30	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear
0.75	Centerline	6.90E+01	5.31E+01	1.96E+01	1.51E+01	1.69E+01	1.30E+01	<1	<25	<25	<25	1.05E+04	1.05E+04	<25
	Mid Centerline	4.14E+01	3.19E+01	1.18E+01	9.06E+00	1.01E+01	7.79E+00	<1	<25	<25	<25	6.28E+03	6.28E+03	<25
	Plume Edge	6.90E-01	5.31E-01	1.96E-01	1.51E-01	1.69E-01	1.30E-01	<1	<25	<25	<25	1.05E+02	1.05E+02	<25
1	Centerline	4.32E+01	3.32E+01	1.33E+01	1.02E+01	1.16E+01	8.92E+00	<1	<25	<25	<25	6.33E+03	6.33E+03	<25
	Mid Centerline	2.59E+01	1.99E+01	7.96E+00	6.12E+00	6.96E+00	5.35E+00	<1	<25	<25	<25	3.80E+03	3.80E+03	<25
	Plume Edge	4.32E-01	3.32E-01	1.33E-01	1.02E-01	1.16E-01	8.92E-02	<1	<25	<25	<25	6.33E+01	6.33E+01	<25
2	Centerline	1.31E+01	1.01E+01	4.58E+00	3.53E+00	4.11E+00	3.16E+00	<1	<25	<25	<25	1.80E+03	1.80E+03	<25
	Mid Centerline	7.84E+00	6.03E+00	2.75E+00	2.12E+00	2.47E+00	1.90E+00	<1	<25	<25	<25	1.08E+03	1.08E+03	<25
	Plume Edge	1.31E-01	1.01E-01	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
3	Centerline	6.38E+00	4.91E+00	2.34E+00	1.80E+00	2.11E+00	1.63E+00	<1	<25	<25	<25	8.55E+02	8.55E+02	<25
	Mid Centerline	3.83E+00	2.95E+00	1.40E+00	1.08E+00	1.27E+00	9.75E-01	<1	<25	<25	<25	5.13E+02	5.13E+02	<25
	Plume Edge	6.38E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
4	Centerline	5.09E+00	3.92E+00	2.21E+00	1.70E+00	2.05E+00	1.58E+00	<1	<25	<25	<25	5.31E+02	5.31E+02	<25
	Mid Centerline	3.05E+00	2.35E+00	1.33E+00	1.02E+00	1.23E+00	9.48E-01	<1	<25	<25	<25	3.18E+02	3.18E+02	<25
	Plume Edge	5.09E-02	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
5	Centerline	3.98E+00	3.06E+00	1.83E+00	1.41E+00	1.72E+00	1.32E+00	<1	<25	<25	<25	3.65E+02	3.65E+02	<25
	Mid Centerline	2.39E+00	1.83E+00	1.10E+00	8.47E-01	1.03E+00	7.92E-01	<1	<25	<25	<25	2.19E+02	2.19E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
6	Centerline	2.76E+00	2.12E+00	1.28E+00	9.84E-01	1.20E+00	9.20E-01	<1	<25	<25	<25	2.52E+02	2.52E+02	<25
	Mid Centerline	1.66E+00	1.27E+00	7.67E-01	5.90E-01	7.18E-01	5.52E-01	<1	<25	<25	<25	1.51E+02	1.51E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
7	Centerline	2.11E+00	1.62E+00	1.01E+00	7.76E-01	9.48E-01	7.29E-01	<1	<25	<25	<25	1.83E+02	1.83E+02	<25
	Mid Centerline	1.26E+00	9.72E-01	6.05E-01	4.65E-01	5.69E-01	4.37E-01	<1	<25	<25	<25	1.10E+02	1.10E+02	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25
8	Centerline	2.17E+00	1.67E+00	1.21E+00	9.31E-01	1.16E+00	8.90E-01	<1	<25	<25	<25	1.49E+02	1.49E+02	<25
	Mid Centerline	1.30E+00	1.00E+00	7.26E-01	5.59E-01	6.94E-01	5.34E-01	<1	<25	<25	<25	8.93E+01	8.93E+01	<25
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25

NOTE: Refer to Fort Calhoun Station site map for location of plume.

## OPPD Field Team Data

Real Time	Drill Time	Survey meter						Dose	Iodine	Particulate			Smears		
12:30	05:30	3 inches/10 cm		3ft/1 Meter		5 Ft		SRD	ESP-2	ESP-2	HP-260	ESP-2	HP-260	Dose Rate	
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	Per 5 Min (mR)	ndpm/10 ft3	ncpm/10 ft3	ncpm/10 ft3	ncpm per 100 cm2	ncpm per 100 cm2	mr/hr per smear	
	Centerline	1.97E+00	1.51E+00	1.15E+00	8.85E-01	1.10E+00	8.50E-01	<1	<25	<25	<25	1.23E+02	1.23E+02	<25	
9	Mid Centerline	1.18E+00	9.09E-01	6.90E-01	5.31E-01	6.63E-01	5.10E-01	<1	<25	<25	<25	7.37E+01	7.37E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	1.58E+00	1.22E+00	9.25E-01	7.12E-01	8.89E-01	6.84E-01	<1	<25	<25	<25	9.73E+01	9.73E+01	<25	
10	Mid Centerline	9.48E-01	7.29E-01	5.55E-01	4.27E-01	5.33E-01	4.10E-01	<1	<25	<25	<25	5.84E+01	5.84E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	1.64E+00	1.26E+00	1.26E+00	9.67E-01	1.24E+00	9.50E-01	<1	<25	<25	<25	5.02E+01	5.02E+01	<25	
15	Mid Centerline	9.84E-01	7.57E-01	7.54E-01	5.80E-01	7.41E-01	5.70E-01	<1	<25	<25	<25	3.01E+01	3.01E+01	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	2.72E+00	2.09E+00	2.39E+00	1.84E+00	2.38E+00	1.83E+00	<1	1.14E+03	1.31E+02	1.31E+02	3.86E+01	3.86E+01	<25	
20	Mid Centerline	1.63E+00	1.25E+00	1.44E+00	1.11E+00	1.43E+00	1.10E+00	<1	6.87E+02	7.88E+01	7.88E+01	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	2.34E+00	1.80E+00	2.14E+00	1.64E+00	2.13E+00	1.64E+00	<1	8.52E+03	9.78E+02	9.78E+02	<25	<25	<25	
25	Mid Centerline	1.41E+00	1.08E+00	1.28E+00	9.87E-01	1.28E+00	9.81E-01	<1	5.11E+03	5.87E+02	5.87E+02	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	8.52E+01	<25	<25	<25	<25	<25	
	Centerline	1.02E-01	7.84E-02	9.31E-02	7.17E-02	9.27E-02	7.13E-02	<1	4.11E+02	4.71E+01	4.71E+01	<25	<25	<25	
30	Mid Centerline	6.11E-02	as read	5.59E-02	as read	5.56E-02	as read	<1	2.46E+02	2.83E+01	2.83E+01	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
35	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
40	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
50	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<25	<25	<25	<25	<25	<25	

NOTE: Refer to Fort Calhoun Station site map for location of plume.



**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 12:30	Drill Time 05:30	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
0.75	Centerline	6.90E+01	5.31E+01	1.96E+01	1.51E+01	1.69E+01	1.30E+01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	4.14E+01	3.19E+01	1.18E+01	9.06E+00	1.01E+01	7.79E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	6.90E-01	5.31E-01	1.96E-01	1.51E-01	1.69E-01	1.30E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
1	Centerline	4.32E+01	3.32E+01	1.33E+01	1.02E+01	1.16E+01	8.92E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.59E+01	1.99E+01	7.96E+00	6.12E+00	6.96E+00	5.35E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	4.32E-01	3.32E-01	1.33E-01	1.02E-01	1.16E-01	8.92E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
2	Centerline	1.31E+01	1.01E+01	4.58E+00	3.53E+00	4.11E+00	3.16E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	7.84E+00	6.03E+00	2.75E+00	2.12E+00	2.47E+00	1.90E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.31E-01	1.01E-01	4.58E-02	3.53E-02	4.11E-02	3.16E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
3	Centerline	6.38E+00	4.91E+00	2.34E+00	1.80E+00	2.11E+00	1.63E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.83E+00	2.95E+00	1.40E+00	1.08E+00	1.27E+00	9.75E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	6.38E-02	4.91E-02	2.34E-02	1.80E-02	2.11E-02	1.63E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
4	Centerline	5.09E+00	3.92E+00	2.21E+00	1.70E+00	2.05E+00	1.58E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	3.05E+00	2.35E+00	1.33E+00	1.02E+00	1.23E+00	9.48E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	5.09E-02	3.92E-02	2.21E-02	1.70E-02	2.05E-02	1.58E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
5	Centerline	3.98E+00	3.06E+00	1.83E+00	1.41E+00	1.72E+00	1.32E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	2.39E+00	1.83E+00	1.10E+00	8.47E-01	1.03E+00	7.92E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	3.98E-02	3.06E-02	1.83E-02	1.41E-02	1.72E-02	1.32E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
6	Centerline	2.76E+00	2.12E+00	1.28E+00	9.84E-01	1.20E+00	9.20E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.66E+00	1.27E+00	7.67E-01	5.90E-01	7.18E-01	5.52E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.76E-02	2.12E-02	1.28E-02	as read	1.20E-02	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
7	Centerline	2.11E+00	1.62E+00	1.01E+00	7.76E-01	9.48E-01	7.29E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.26E+00	9.72E-01	6.05E-01	4.65E-01	5.69E-01	4.37E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.11E-02	1.62E-02	1.01E-02	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
8	Centerline	2.17E+00	1.67E+00	1.21E+00	9.31E-01	1.16E+00	8.90E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.30E+00	1.00E+00	7.26E-01	5.59E-01	6.94E-01	5.34E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	2.17E-02	1.67E-02	1.21E-02	as read	1.16E-02	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

Iodine and Particulate Air Sample Data is based on a volume of 10 Cubic Feet.

2003 Exercise

**Field Team Data for Cooper Nuclear Station Field Team Instruments**

Real Time 12:30	Drill Time 05:30	Survey meter						Dose SRD Per 5 Min (mr)	Iodine 10 ft3 Sample Vol.			Particulate 10 ft3 Sample Vol.		
		3 Inches/10cm		3ft/1 Meter		5 ft			Iodine	Ion	E-140	Part.	Ion	E-140
Miles	Plume Location	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed	mR/hr open	mR/hr closed		uCi/cc	Chamber mRem/hr	mRem/hr	uCi/cc	Chamber mRem/hr	mRem/hr
9	Centerline	1.97E+00	1.51E+00	1.15E+00	8.85E-01	1.10E+00	8.50E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	1.18E+00	9.09E-01	6.90E-01	5.31E-01	6.63E-01	5.10E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.97E-02	1.51E-02	1.15E-02	as read	1.10E-02	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
10	Centerline	1.58E+00	1.22E+00	9.25E-01	7.12E-01	8.89E-01	6.84E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	9.48E-01	7.29E-01	5.55E-01	4.27E-01	5.33E-01	4.10E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.58E-02	1.22E-02	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
15	Centerline	1.64E+00	1.26E+00	1.26E+00	9.67E-01	1.24E+00	9.50E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	9.84E-01	7.57E-01	7.54E-01	5.80E-01	7.41E-01	5.70E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	1.64E-02	1.26E-02	1.26E-02	as read	1.24E-02	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
20	Centerline	2.72E+00	2.09E+00	2.39E+00	1.84E+00	2.38E+00	1.83E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.02	0.09
	Mid Centerline	1.63E+00	1.25E+00	1.44E+00	1.11E+00	1.43E+00	1.10E+00	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.01	0.05
	Plume Edge	2.72E-02	2.09E-02	2.39E-02	1.84E-02	2.38E-02	1.83E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
25	Centerline	2.34E+00	1.80E+00	2.14E+00	1.64E+00	2.13E+00	1.64E+00	<1	1.36E-08	<0.01	0.01	1.55E-08	0.17	0.68
	Mid Centerline	1.41E+00	1.08E+00	1.28E+00	9.87E-01	1.28E+00	9.81E-01	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	0.10	0.41
	Plume Edge	2.34E-02	1.80E-02	2.14E-02	1.64E-02	2.13E-02	1.64E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
30	Centerline	1.02E-01	7.84E-02	9.31E-02	7.17E-02	9.27E-02	7.13E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.03
	Mid Centerline	6.11E-02	4.70E-02	5.59E-02	4.30E-02	5.56E-02	4.28E-02	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	0.02
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
35	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
40	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
50	Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Mid Centerline	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01
	Plume Edge	as read	as read	as read	as read	as read	as read	<1	<1.0E-08	<0.01	<0.01	<1.0E-08	<0.01	<0.01

**EXERCISE MANUAL**

**FOR THE**  
**JUNE 24, 2003**  
**FORT CALHOUN STATION**

**EMERGENCY**  
**PREPAREDNESS EXERCISE**

**VOLUME 3– FIELD TEAM**  
**DATA**

**CAUTION:** This manual contains confidential exercise information that cannot be shared with exercise Participants prior to the 2003 Fort Calhoun Station Exercise.