R-016-209.2

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REMOVAL ACTION FOR EXPOSED MATERIALS AT PIT 6 REMOVAL #6 JANUARY 1992

01-01-92

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FINAL REPORT

REMOVAL ACTION FOR EXPOSED MATERIALS AT PIT 6

Removal #6

January 1992

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EXECUTIVE SUMMARY

The Waste Pit 6 Removal Action was initiated on 17 December 1990 and completed on 19 December 1990. Over this period approximately 125 cubic yards of exposed waste pit material was moved to below the water cover of Pit 6.

As part of this action, monitoring was performed prior to, during, and after the actual movement of Waste Pit 6 material. The sampling was performed to address the effects from the movement of exposed wastes to below the water cover.

As a result of this removal action and procedure for maintaining water levels, Waste Pit 6 will no longer be a significant source of particulate emissions for 1991 and future annual NESHAP compliance demonstrations and related reports.

INTRODUCTION

Waste Pit 6 was constructed in 1979 for the disposal of dry residue wastes from the Feed Materials Production Center (FMPC), now called the Fernald Environmental Management Project (FEMP). Waste materials were added to the pit until 1985. The pit contains an estimated 9,000 yds^3 of green salt (uranium tetrafluoride), filter cake, slag, process residues, and asbestos. The pit contains approximately 1.9 million pounds of uranium. Currently, a water cover blankets the pit to prevent dust emissions.

Approximately 125 cubic yards of the waste pit contents were located above the water cover of the 32,400 square feet surface area pit. This exposed pit material was subject to wind erosion and was estimated to be a major contributor to the airborne dose received by the maximally exposed offsite individual from all sources of radiation at the FEMP. As indicated in the 1989 Environmental Monitoring Report (EMR) and the 1989 NESHAP compliance demonstration, Waste Pit 6 accounted for greater than 60% of the estimated emissions and greater than 85% of the estimated dose. The estimated doses are quantitative in nature and derived using numerical models.

REMOVAL ACTION IMPLEMENTATION

In September of 1990 a Removal Site Evaluation for Waste Pit 6 was completed with DOE/FMPC issuing a Removal Action Memorandum in October. DOE determined that a response action was appropriate as a result of the potential offsite exposure from wind erosion and dispersal of the exposed material in Waste Pit 6. A Work Plan and a Health and Safety Plan were completed in November, 1990 such that the Removal Action would:

1. Use a crane with a clamshell attachment to remove the exposed material and redistribute the material to deeper portions of the waste pit; and,

2. Use a combination of engineering controls, specific work practices, and personal protective equipment to protect the field workers.

Air sampling was initiated during late November, 1990. Air samples were taken approximately three weeks prior to any waste pit material movement. Air was sampled to provide quantitative measurements before, during and after the pit material relocation.

Movement of the waste material began on 17 December 1990. Work continued until a problem developed with the crane brakes. Operations were suspended until the equipment maintenance personnel could evaluate and correct the problem.

Operations resumed 18 December 1990, once maintenance personnel confirmed the crane was operational. Work continued throughout the day with breaks taken due to weather.

Operations again resumed 19 December 1990. Work continued until all exposed waste material was positioned under the water line of the pit.

SAMPLING AND ANALYSIS

Three objectives were identified as part of the sampling and monitoring program in the Removal Action. They are as follows:

1. Provide quantified results of particulate radionuclide emissions before, during, and after the Removal Action to evaluate the effectiveness of the action.

2. Provide real time monitoring to immediately assess the adequacy of the worker protective methods employed during the Removal Action.

3. Provide quantified analysis for each contaminant found in the waste pit material.

All sampling and monitoring results can be found in Attachment C.

To accomplish objective 1, two high volume air samplers were placed at locations near the waste pit. Filter samples were taken prior to the Removal Action, continuously during field operations, and for a three week period after completion of field operations. Samples were field screened for alpha and beta-gamma count before shipment to IT Analytical Services. Samples were analyzed by IT for total uranium using gamma spectroscopy. Results of other radionuclides are not available. The concentrations of total uranium measured on the filters is shown in Attachment C. Also included is a summary table of sample dates, sample numbers, type of sample, descriptions, volume of air, laboratory results and the calculated emissions based on air flow and laboratory results. Table 1 shows the average emissions, and the high and the low emissions associated with the pre-action, action and post-action periods.

TABLE 1

Period	No. of Samples	Average (ug U/ml x10^{-6})	High (ug U/ml x10^{-6})	Low (ug U/ml x10^{-6})
Pre-Action	6	1.01	1.21	0.80
Action	5	1.08	2.08	0.39
Post-Action	18	0.53	0.71	0.21

Note: The action period does not include sample 17, 12/19/90 as sample designation appears incorrect.

To accomplish objectives 2 and 3, several different hazards were to be monitored as indicated in the Removal Action Work Plan. The following is a list of the hazards:

- Uranium;
- Asbestos;
- Arsenic, Lead, Silver, & Magnesium Fluoride;
- 1,1,2,2-Tetrachloroethane;
- External Radiation;
- Internal Radiation;
- External Contamination; and
- Total Particulates.

Filter samples were taken with breathing zone (BZ) samplers and were field analyzed for alpha and beta-gamma count. Analytical results of the BZ samples showed only some detectable asbestos concentrations. These concentrations were well below the exposure limit of 0.2 fibers/cc. Arsenic, lead, silver and fluoride analyses showed BZ concentrations less than detectable.

Filter samples taken with general area (GA) samplers were also field analyzed for alpha and beta-gamma count. Analytical results of the GA samples showed detectable fluoride concentrations less than the 2.5 mg/m^3 exposure limit. Arsenic, asbestos, lead, and silver concentrations were below detectable limits.

HEALTH AND SAFETY PLAN

The operations at Waste Pit 6 deviated from the Site Specific Health and Safety Plan as follows:

- Half mask respirators were used by personnel at the waste pit in place of the full-mask respirators dictated in the Health and Safety Plan. This change was allowed by the Industrial Radiation Safety and Health (IRS&H) foreman in response to the change in anticipated conditions.

- Use of approved life vests were required of anyone within five feet of the waste pit.

FUTURE WASTE PIT 6 ACTIVITIES

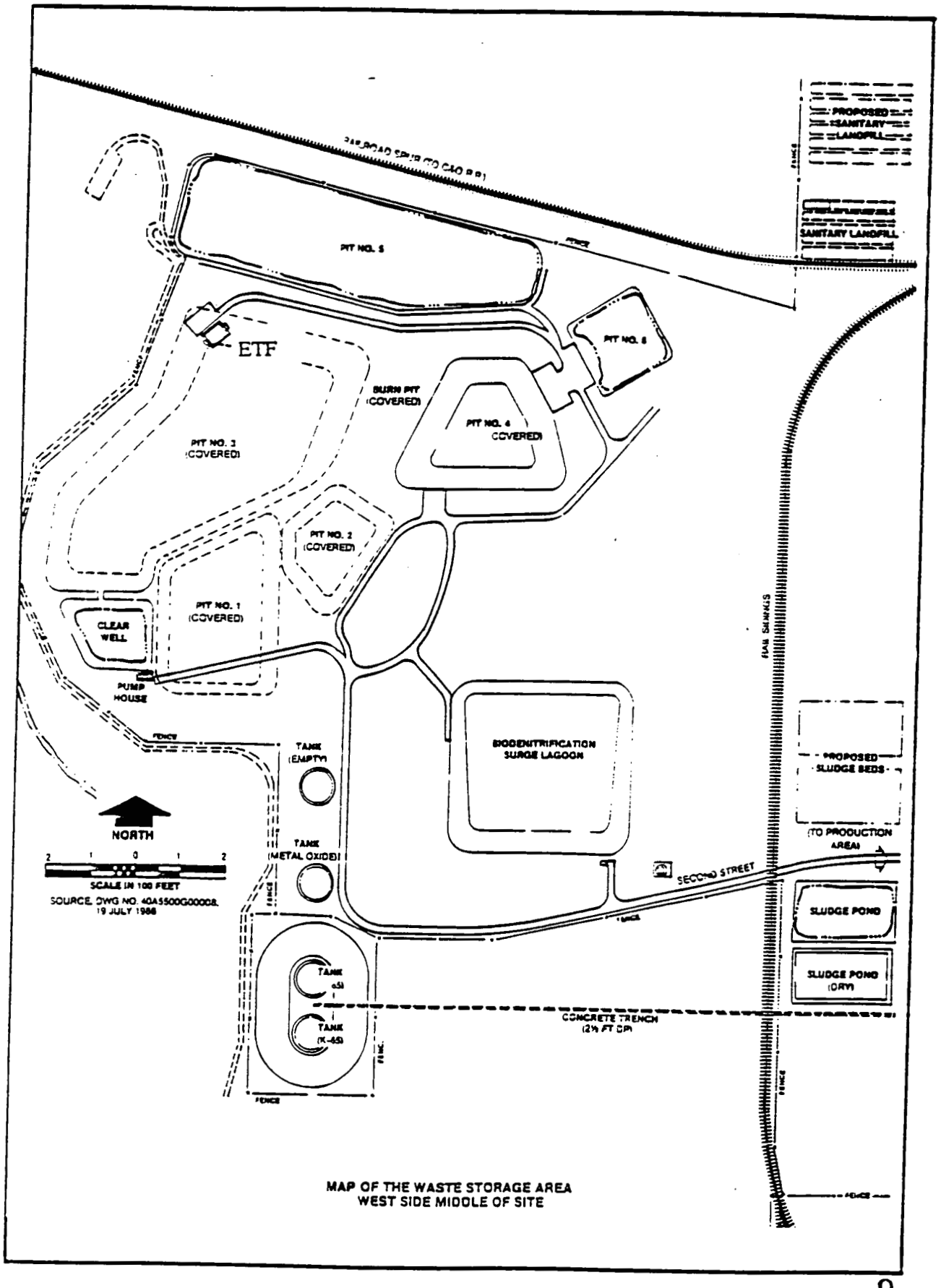
The addition of permanent air monitoring stations to enhance the current FEMP air monitoring program was included as part of the Removal Action. Results from this air monitoring activity will be included in future versions of the annual Environmental Report and annual NESHAP compliance demonstrations.

A standard operating procedure (SOP) was also developed to ensure the contents of Waste Pit 6 remain under water, preventing future emissions. The SOP is included as Attachment B.

Waste Pit 6 will undergo final remediation in accordance with the amended CERCLA Consent Agreement schedule for Operable Unit 1. The draft Record of Decision (ROD) for OU 1 is currently scheduled for December, 1994.

ATTACHMENT - A

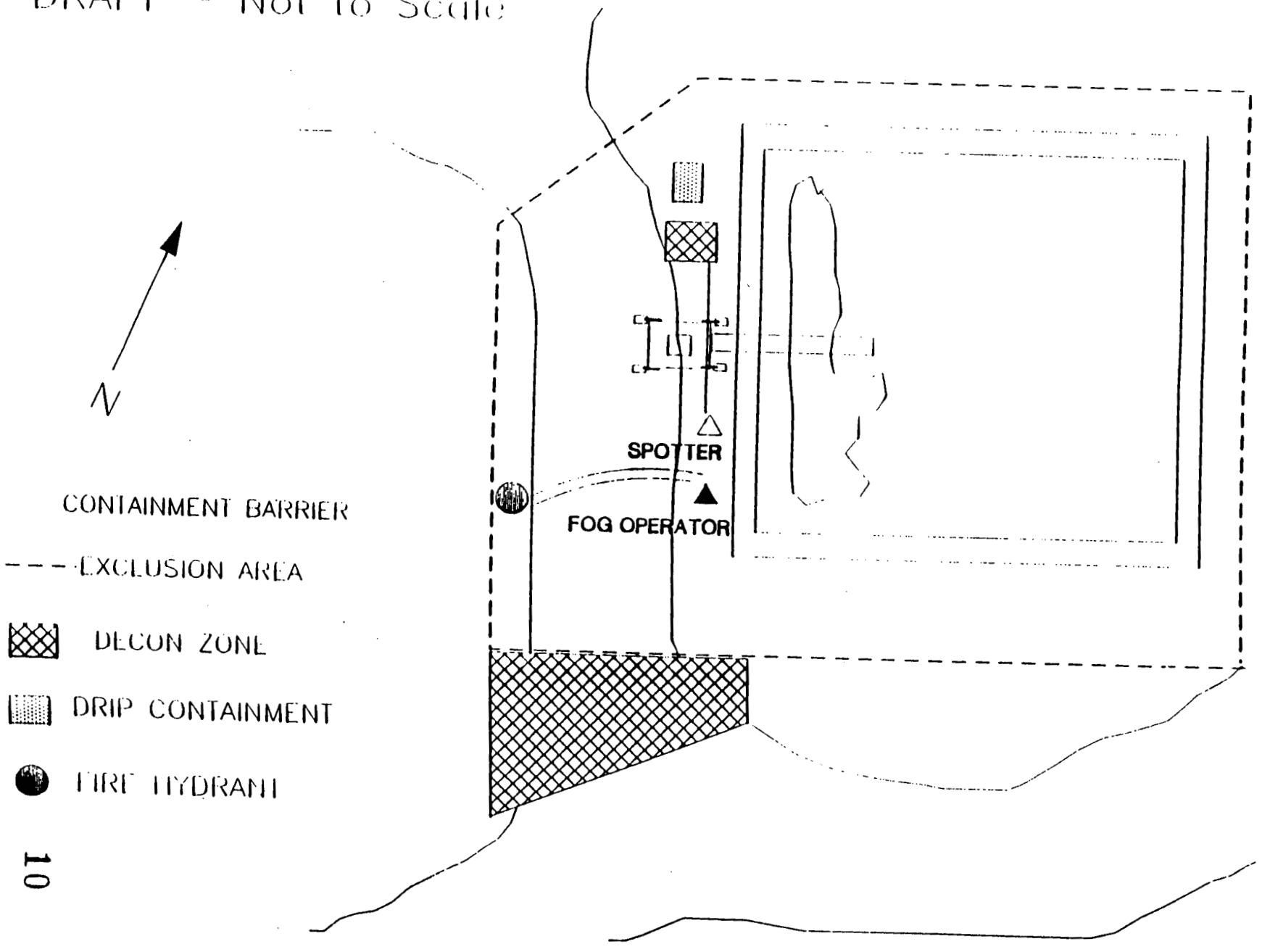
FIGURES



MAP OF THE WASTE STORAGE AREA
WEST SIDE MIDDLE OF SITE

FIGURE 1.

DRAFT - Not to Scale



ATTACHMENT - B

STANDARD OPERATING PROCEDURE

SITE SERVICES PROCEDURE	MANAGEMENT OF THE WATER COVER FOR WASTE PIT 6	SOP 43-C-12 AREA: Waste Pit 6
Authorization: (Signature on File) L. Pennington, Utilities	Supersedes: None	Issue Date: 08-08-91

1.0 PURPOSE

This document establishes the requirements for operating, maintaining, and inspecting the Water Cover (environmental cap) for Waste Pit 6.

2.0 APPLICABILITY

This procedure is applicable to all (utilities) personnel operating, maintaining or inspecting the Water Cover (environmental cap) for Waste Pit 6 located in the Waste Storage Area (See Figure 1).

3.0 RESPONSIBILITIES

3.1 Supervisor - The supervisor shall be responsible for the following:

3.1.1 Ensuring that only personnel trained per this procedure shall inspect Waste Pit 6 and operate the pumps for Pit 6.

3.1.2 Contacting Industrial Hygiene or Radiological Safety to determine the appropriate level of protection for the process being performed.

3.1.3 Providing operators with the required respiratory protection.

3.1.4 Maintaining records required by State and Federal governments.

3.1.5 Determining when excess water is to be removed and its disposition.

3.1.6 Ensuring that personnel checking the water level and removing excess water from Waste Pit 6 are qualified per the established training requirements identified by the Department/Staff Manager.

3.2 Operator - The operator shall be responsible for the following:

3.2.1 Complying with this Standard Operating Procedure (SOP).

3.2.2 Performing tasks in accordance with this SOP.

4.0 DEFINITIONS

4.1 Spill - Any unplanned event involving spilling, leaking, pumping, injecting, escaping, emitting, emptying, leaching, releasing, dumping, discharging, or disposing of hazardous waste onto the ground, into water, or into the air, within or beyond the boundaries of the FMPC.

R - MATERIAL REVISED, ADDED, OR DELETED.

4.0 DEFINITIONS (cont.)

4.2 Storage Location - A defined area, usually a warehouse, approved for long-term storage.

4.3 TSS - Total suspended solids.

5.0 REFERENCES

5.1 SOP 43-C-301, "Water Treatment Plant Operation"

5.2 SOP 43-C-305, "Water Plant Laboratory Procedures"

5.3 SOP 43-C-324, "Sampling FMPC Water Supplies"

5.4 SOP 43-C-601, "Chemical Pits"

5.5 SOP 20-C-606, "Hazardous Material Spill Cleanup"

5.6 SOP 43-C-701, "General Sump"

6.0 INDUSTRIAL HEALTH AND SAFETY REQUIREMENTS

6.1 A defined safety system is not involved.

6.2 Safety glasses shall be worn at all times unless other eye protection is specified by IRS&T, the supervisor, or posted signs.

6.3 Personnel safety equipment (eyewash, fire extinguishers, safety showers) shall be available for emergencies.

6.4 Leather-palm gloves shall be worn while handling drums, operating equipment, and handling rough, sharp-edged, or contaminated materials.

6.5 Respiratory protection provided by the supervisor as specified by IRS&T shall be worn when required.

6.6 Normal Controlled Area clothing shall be worn unless otherwise specified by IRS&T.

6.7 Vehicles shall not be driven on the exposed liner membrane surface of Pit 6 or within seven feet of the visible edge of the membrane.

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6.0 INDUSTRIAL HEALTH AND SAFETY REQUIREMENTS (cont.)

6.8 To protect the membrane, appropriate footwear shall be worn by personnel walking on the membrane. Care shall be taken while walking on the membrane.

6.9 If work is to be performed along the side walls or bottom when the water level is low and the use of potentially damaging equipment is required, a job plan shall be prepared to establish precautions to protect the Waste Pit or lagoon liner.

6.10 An approved life jacket, in addition to other required clothing, shall be worn by personnel within five feet of the Waste Pit or Surge Lagoon.

6.11 Personnel working around the Waste Pit or Surge Lagoon shall carry two-way radios.

6.12 Tasks involving any operation outside the restricted walkways shall be performed by at least two persons.

6.13 All samples shall be labeled to identify the type of material.

6.14 Any circumstance which could have resulted in an intake of radioactive materials by inhalation, ingestion or absorption shall immediately be reported to a supervisor. The supervisor shall immediately report the circumstance of possible radioactive materials intake to IRS&T Radiological Safety Section for evaluation. The involved personnel shall report to the Urine Sampling Station at the end of their shift to complete a Investigation Report (IRR) (Form FMPC-ES&H-1458), and submit an incident urine sample. The involved personnel shall also report to the Urine Sampling Station at the start of their next shift to submit a followup urine sample. Employees are responsible for complying with additional requirements as specified by the Radiological Safety Section.

6.15 A whole body frisk by IRS&T is required before being allowed to exit the Waste Storage Area.

6.16 A spill of hazardous material shall be reported per SOP 20-C-606.

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7.0 PROCEDURE

7.1 Sampling Waste Pit 6

> WARNING: DURING PERIODS OF HIGH RADON LEVELS, PERSONNEL WILL BE DENIED ACCESS TO THE WASTE STORAGE AREA.

NOTE: Before periods of pumping, a sample shall be taken from Waste Pit 6.

NOTE: Allow at least 24 hours settling time prior to sampling.

> WARNING: ALL PERSONNEL MUST WEAR AN APPROVED LIFE JACKET IN ADDITION TO OTHER REQUIRED CLOTHING WHEN WITHIN FIVE FEET OF THE BASIN.

7.1.1 At the start and midpoint of each shift when pumping, a Utilities Operator shall obtain a one-quart polyethylene container.

7.1.2 Inspect the polyethylene container for any holes or other damage that could affect container integrity.

7.1.3 Inspect the polyethylene container for any type of foreign material that could affect test results.

7.1.4 Each polyethylene sample container must be properly labeled to indicate the following information:

7.1.4.1 Date the sample was taken.

7.1.4.2 Time of day the sample was taken.

7.1.4.3 Location where the sample was taken.

7.1.4.4 Badge number and the name of the person taking the sample.

7.1.5 Using the one-quart container, obtain a sample of Waste Pit 6 (See Figure 2) effluent.

NOTE: The sample from Waste Pit 6 shall be taken from the same location of the pit as where the gasoline-powered pump is located at Pit 6 (See Figure 2).

7.1.6 Using a damp cloth, wipe the outside of the sample container to remove contaminants.

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7.0 PROCEDURE (cont.)

7.1.7 Dispose of the damp cloth in an approved storage receptacle.

7.1.8 Submit the sample to the Water Treatment Laboratory.

7.1.9 As a minimum, each sample shall be analyzed for Uranium (U), pH, fluoride (ppm), and Total Suspended Solids (TSS).

7.1.10 When notified by the Laboratory Technician, record the analysis results on a "Log-Inside Rounds "A"," Form FMPC-PRO-189 (See Figure 3).

7.2 Preparatory Actions To Remove Excess Water From Pit 6

WARNING: DURING PERIODS OF HIGH RADON LEVELS, PERSONNEL WILL BE DENIED ACCESS TO THE WASTE STORAGE AREA.

WARNING: ALL PERSONNEL MUST WEAR AN APPROVED LIFE JACKET IN ADDITION TO OTHER REQUIRED CLOTHING WHEN WITHIN FIVE FEET OF THE BASIN.

7.2.1 Perform Steps 7.1.1 through 7.1.10.

NOTE: If the pH is less than 5.0, add lime from the General Sump to Waste Pit 6 before removing excess water from the pit.

7.2.2 Obtain the fire hose from the designated storage location.

7.2.3 Connect the fire hose to the middle berm valve located at Waste Pit 5 (See Figure 2).

7.2.4 Stretch the fire hose to the berm of Waste Pit 6 (See Figure 2).

7.2.5 Contact personnel at the General Sump and inform them that you are ready to pump lime to Waste Pit 6.

7.2.6 Open the middle berm valve at Waste Pit 5 and add lime to Pit 6.

7.2.7 After sufficient lime has been added to Pit 6 to adjust the pH, close the middle berm valve at Pit 5 (See Figure 2).

NOTE: Contact the Utilities Supervisor to determine the sufficient amount of lime to be added.

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7.0 PROCEDURE (cont.)

7.2.8 Contact personnel at the General Sump to inform them to stop pumping lime to Waste Pit 6.

7.2.9 Return the fire hose to the designated storage location.

7.2.10 To obtain the pH of Pit 6, repeat Steps 7.1.1 through 7.1.10.

7.2.11 If the pH is greater than 5.0, but less than or equal to 9.0, proceed to Step 7.3.1.

7.3 Removing Water From Waste Pit 6

WARNING: DURING PERIODS OF HIGH RADON LEVELS, PERSONNEL WILL BE DENIED ACCESS TO THE WASTE STORAGE AREA.

WARNING: ALL PERSONNEL MUST WEAR AN APPROVED LIFE JACKET IN ADDITION TO OTHER REQUIRED CLOTHING WHEN WITHIN FIVE FEET OF THE BASIN.

NOTE: During periods of high pit levels, such as early spring, portable pumps and hoses may be required to transfer materials from Waste Pit 6 to the Surge Lagoon or General Sump.

7.3.1 To ensure that the water quality is within the required specifications, perform Steps 7.2.1 through 7.2.11.

NOTE: Transfers of effluent from one pit to another location will be dictated by a Utilities Supervisor or a qualified representative.

7.3.2 Obtain the fire hose from the designated storage location.

7.3.3 Connect one end of the fire hose to the gasoline-powered pump at Pit 6.

7.3.4 Stretch the other end of the fire hose to the middle berm valve for Pit 5 (See Figure 2).

7.3.5 Connect the fire hose to the middle berm valve for Pit 5 (See Figure 2).

7.0 PROCEDURE (cont.)

7.3.6 Examine all apparatus (fire hose, pump, for example) for any indications of wear or potential failure.

7.3.7 Start the gasoline-powered pump at Pit 6.

NOTE: The suction hose strainer should be a few inches below the surface of the water to assure the transfer of as few solids as possible.

7.3.8 Open the middle berm valve at Pit 5 (See Figure 2).

NOTE: If the uranium content of the water in Pit 6 is greater than 5 ppm, proceed to 7.3.10.

7.3.9 Pump the excess water to the Surge Lagoon.

NOTE: Proceed to Step 7.3.11.

7.3.10 Pump the excess water to General Sump.

7.3.11 When the water level in Pit 6 is six (6) inches from the top of the solids, stop the gasoline-powered pump.

7.3.12 Close the middle berm valve at Pit 5.

7.3.13 Disconnect the fire hose from the gasoline-powered pump.

7.3.14 Disconnect the fire hose from the middle berm valve located at Pit 5.

7.3.15 Return the fire hose to the designated storage location.

7.3.16 Record the pumping on an "Log-Inside Rounds "A"," located at the Water Plant.

NOTE: No water from Pit 6 will be pumped into Pit 5.

NOTE: Visual estimations of the flows from Pit 6 are able to be calculated since the dimensions of Pit 6 are known. Exact flow records of Pit 6 are not kept, because precise flow rates are difficult to calculate.

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7.0 PROCEDURE (cont.)

7.4 Adding Water To Waste Pit 6

> WARNING: DURING PERIODS OF HIGH RADON LEVELS, PERSONNEL WILL BE DENIED ACCESS TO THE WASTE STORAGE AREA.

> WARNING: ALL PERSONNEL MUST WEAR AN APPROVED LIFE JACKET IN ADDITION TO OTHER REQUIRED CLOTHING WHEN WITHIN FIVE FEET OF THE BASIN.

7.4.1 Obtain a fire hose from the designated storage location.

7.4.2 Examine all apparatus (fire hose, pump, for example) for any indications of wear or potential failure.

7.4.3 Connect the fire hose to the fire hydrant valve east of Pit 6 (See Figure 2).

7.4.4 Stretch the fire hose to the berm of Waste Pit 6.

7.4.5 Open the valve for the fire hydrant to start filling Waste Pit 6.

7.4.6 When the water level in Waste Pit 6 is six (6) inches below the level indicator marked on the liner, close the valve for the fire hydrant.

NOTE: If possible, water levels in all pits should be kept 36 inches below the top of the embankment to eliminate possible overflows.

7.4.7 Remove the fire hose from the fire hydrant.

7.4.8 Place the fire hose in its designated storage location.

7.4.9 Record the amount of water pumped to Waste Pit 6 on the "Log-Inside Rounds "A"," Form (See Figure 3).

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7.0 PROCEDURE (cont.)

7.5 Routine Inspections Of Waste Pit 6

WARNING: DURING PERIODS OF HIGH RADON LEVELS, PERSONNEL WILL BE DENIED ACCESS TO THE WASTE STORAGE AREA.

NOTE: During periods of heavy rain inspections shall be performed every 2 to 3 hours instead of twice a shift.

7.5.1 Weekly, a Utilities Operator shall obtain a copy of the "Waste Storage Area Inspection Checklist," Form FS-SS-3342 (See Figure 4), from the Utilities Supervisor.

NOTE: The time period between two successive inspections of the Waste Pit 6 Area shall not exceed seven calendar days.

7.5.2 Inspect Waste Pit 6 per the applicable section of the "Waste Storage Area Inspection Checklist," Form FS-SS-3342 (See Figure 4).

7.5.3 Mark any unacceptable conditions about the inspection on the inspection Form FS-SS-3342 (See Figure 4), and include any remedial action to be taken.

NOTE: Any of the criteria noted as unacceptable must be corrected in a timely manner.

NOTE: If more than 0% of the surface level is exposed, this is an unacceptable condition.

7.5.4 Record the name and badge number of the person performing the inspection and the date in the appropriate places on the inspection form.

7.5.5 The individual performing the inspection shall sign the completed inspection form.

7.5.6 The individual performing the inspection shall give the completed inspection forms to the Utilities Supervisor to sign and retain.

7.5.7 All routine operating requirements and abnormal conditions will be recorded on the "Log-Inside Rounds "A"," Form FMPC-OPR-189 (See Figure 3).

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7.0 PROCEDURE (cont.)

7.5.8 The Utilities Supervisor shall sign the appropriate inspection forms.

7.5.9 The Utilities Supervisor shall forward a copy of the appropriate inspection forms to Environmental Compliance and Quality Assurance.

7.5.10 The Utilities Supervisor shall retain these forms on file indefinitely.

8.0 APPLICABLE FORMS

8.1 Form FMPC-OPR-189, "Log-Inside Rounds "A","

8.2 Form FS-SS-3342, "Waste Storage Area Inspection Checklist"

9.0 FIGURES

9.1 Figure 1, Diagram Of The Waste Storage Area

9.2 Figure 2, Diagram Of Waste Pit 6

9.3 Figure 3, "Log-Inside Rounds "A"," FMPC-OPR-189

9.4 Figure 4, "Waste Storage Area Inspection Checklist," FS-SS-3342

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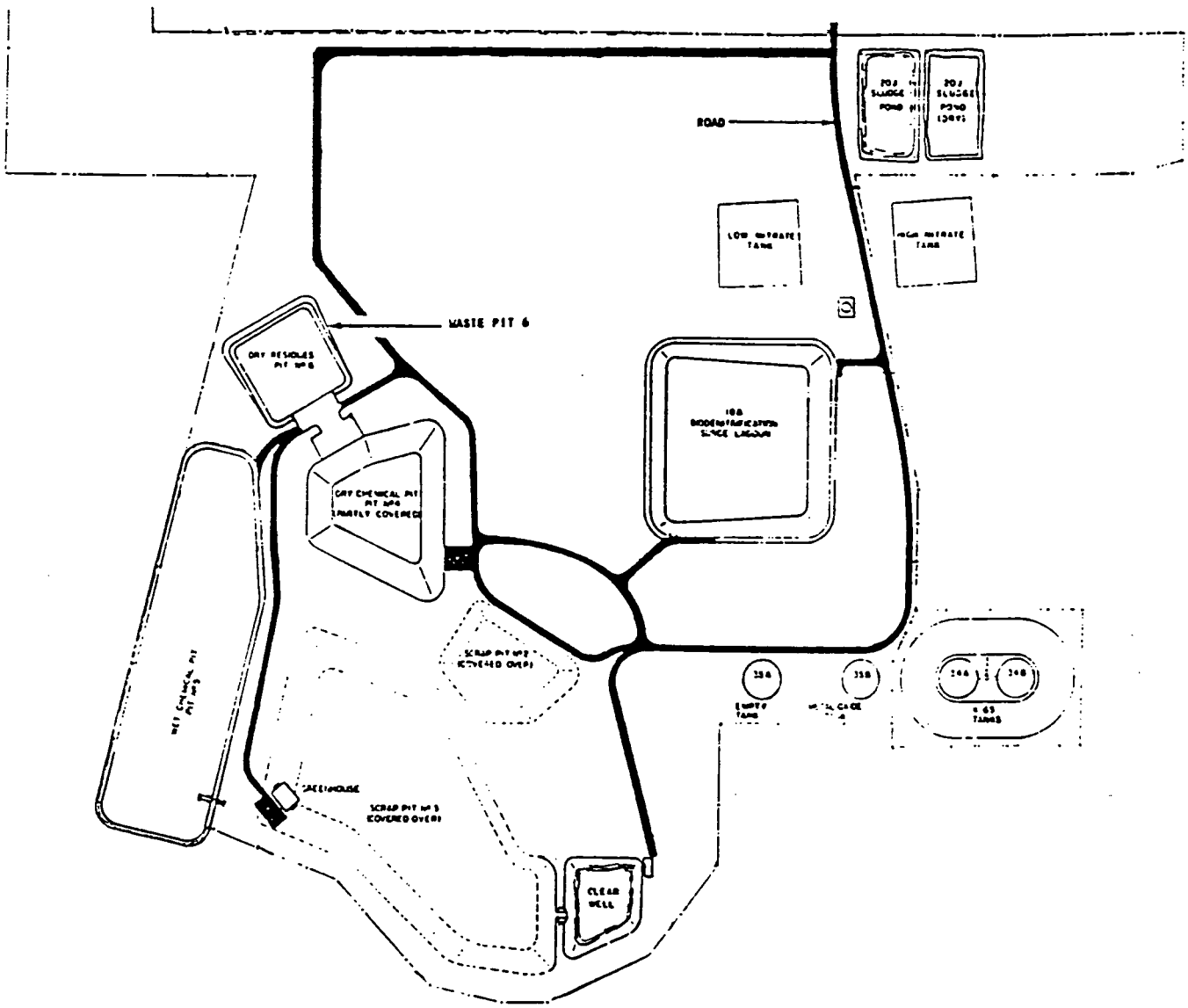

DIAGRAM OF THE WASTE STORAGE AREA
Figure 1

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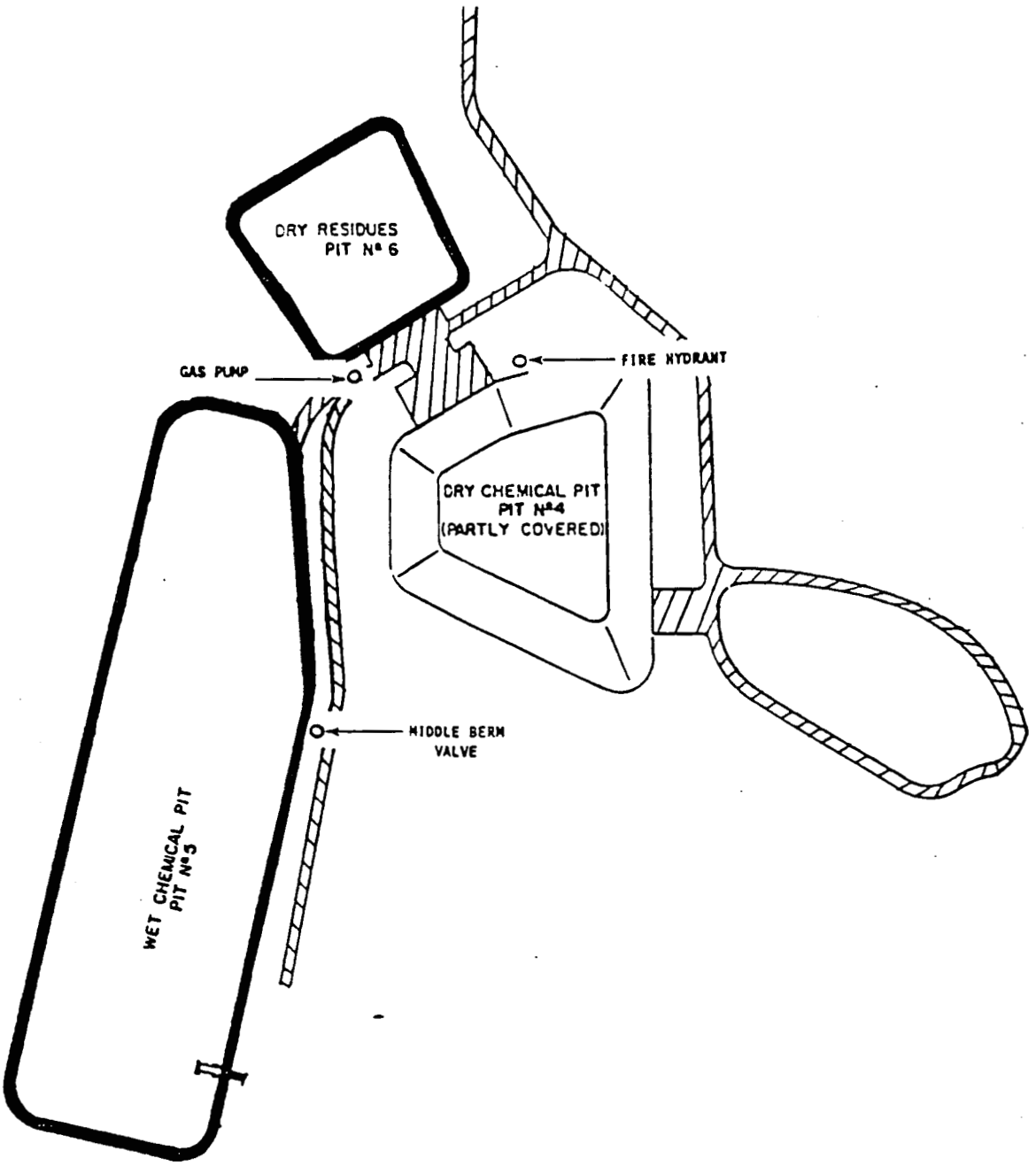

DIAGRAM OF WASTE PIT 6
Figure 2

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SITE SERVICES PROCEDURE	MANAGEMENT OF THE WATER COVER FOR WASTE PIT 6	SOP 43-C-412 AREA: Waste Pit 6
Authorization: L. Pennington, Utilities	Supersedes: None	Issue Date: 08-08-91

FMPC
OPERATIONS - UTILITIES - BOILER PLANT
LOG—INSIDE ROUNDS "A"

Day _____
Day _____

TIME	EAST TOWER HT	MICROMHOS METER SET	MICROMHOS METER TDS	TEST pH	TEST TDS	CAFETERIA ZEOLITES SOUTH INTEGRATOR	SOUTH FLOW	SOUTH Th	NORTH INTEGRATOR	NORTH FLOW	NORTH Th	FIRE PUMP HOUSE CST HT	CST TEMP	WEST TOWER HT	WEST TOWER TEMP	LP	pH-MANHOLES 13 METER	13 WTP	14 METER	14 WTP	22 METER	22 WTP	23 METER	23 WTP	#2 WELL INTEGRATOR	#2 WELL FLOW	INTL
3:30 PM																											
2:30																											
1:30 AM																											
4:30																											
REMARKS																											
6:30 AM																											
8:30																											
10:30																											
12:30 PM																											
REMARKS																											
2:30 PM																											
4:30																											
6:30																											
8:30																											
10:30																											
REMARKS																											

TIME	DETENTION SUMP HP	FT	INCHES	STORM SEWER LIFT STATION SALS TO BIN 175 OR GS LP	HT	TEMP	COND	TSS	pH	TOTAL FLOW	6-HR FLOW	SALS TO BIN INTEGRATOR	FLOW	HTL	EAS PITS CLEARWELL LETTER	GPM	HT	INTEGRATOR	FLOW	COMMENTS PIT #6	PIT #8	INTL
3:30 PM																						
2:30																						
1:30 AM																						
4:30																						
REMARKS																						
6:30 AM																						
8:30																						
10:30																						
12:30 PM																						
REMARKS																						
2:30 PM																						
4:30																						
6:30																						
8:30																						
10:30																						
REMARKS																						

	OPERATOR	EXTRA OPERATOR	WASTE OPERATOR	EXTRA WASTE OPERATOR	ASSISTANT OPERATOR	EXTRA ASSISTANT OPERATOR	PUMPMAN	PUMPMAN	PUMPMAN
Shift 1 - 2 PM - 6:30 AM									
Shift 2 - 6 AM - 2:30 PM									
Shift 3 - 2 PM - 10:30 PM									

LOG-INSIDE ROUNDS "A"
FMPC-OPR-189
Figure 3

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Fernald Site
WASTE STORAGE AREA
INSPECTION CHECKLIST

INSPECTOR NAME:	BADGE NUMBER:	DATE:
SUPERVISOR NAME:	BADGE NUMBER:	DATE:

AREA	INSPECTION ITEM	STATUS: ACCEPTABLE	STATUS: UNACCEPTABLE	COMMENTS
LIME BLOW-DOWN LAGOON, NORTH	Level			
	Hoses Neat			
	Pump Secure			
LIME BLOW-DOWN LAGOON, SOUTH	Level			
	Hoses Neat			
	Pump Secure			
METHANOL TANK	Area Neat			
NORTH TEMPORARY TANK	Level			
	Area Neat			
SOUTH TEMPORARY TANK	Level			
	Area Neat			
BIO-SURGE LAGOON SOUTH ACCESS	Level			
	Area Neat			
BIO-SURGE LAGOON NORTH ACCESS	Area Neat			
PIT 3 CLEAR WELL	Level			
	Area Neat			
PIT 6	Area Neat			
	Pump & Hoses Secure			
	Surface Level Exposed _____ %			
	Barricades in Place			
	Liner Condition			
	Condition of Patches			
PIT 5	Area Neat			
	Pump & Hoses Secure			
	Surface Level Exposed _____ %			
	Barricades in Place			
	Liner Condition			

COMMENTS: _____

FS-SS-3342 (8/1/91)

WASTE STORAGE AREA INSPECTION CHECKLIST
FS-SS-3342
Figure 4

R - MATERIAL REVISED, ADDED, OR DELETED.

RECORD OF ISSUE/REVISIONS

DATE	REV.NO	DESCRIPTION AND AUTHORITY
08-08-91	0	New procedure for the Management of the Water Cover for Waste Pit 6 per Request No. P91-102, initiated by K. Dunbar.

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ATTACHMENT - C

LABORATORY ANALYSIS RESULTS

PIT 6 FILTER SAMPLES
SUMMARY TABLE

Date mo/da/yr	Sample Number	Type	Description	Air Volume (liters)	IT Lab Results (ug/filter)	Emission (ug/ml x10^6)
			SAMPLING PRIOR TO WORK ACTIVITIES			
11/25/90	1	GA	NW CORNER OF PIT 6	318699.12	386	1.211
11/29/90	2	GA	CENTER, NORTH PART OF PIT 6	421316.64	389	0.923
11/30/90	3	GA	NORTH OF PLANT 6	386568.00	310	0.802
12/11/90	5	GA	NORTH OF PIT 6	318449.60	360	1.130
12/14/90	6	GA	NORTH END OF PIT 6	293112.00	311	1.061
12/14/90	7	GA	WEST OF PIT 6	424800.00	410	0.965
12/16/90	28	GA	---	330182.88		
			SAMPLING DURING WORK ACTIVITIES			
12/17/90	10	GA	EAST SIDE OF PIT 6	185546.40	336	1.811
12/17/90	11	GA	NORTH OF PIT 6	190650.24	396	2.077
12/19/90	17	BZ??	NORTH OF PIT 6	680211.00	365	0.537
12/17/90	43	GA	WEST SIDE OF PIT 6	221150.88		
12/18/90	12	GA	NORTH OF PIT 6	672812.40	263	0.391
12/18/90	13	GA	EAST OF PIT 6	631974.96	342	0.541
12/18/90	40	GA	W PIT 6	674752.32		
12/19/90	15	GA	PIT 6	924081.60		
12/19/90	48	GA	WEST OF PIT 6	924081.60		
12/19/90	16	GA	EAST OF PIT 6	611032.32	375	0.614
			SAMPLING AFTER WORK ACTIVITIES			
12/20/90	44	GA	E PIT 6	590238.36		
12/20/90	45	GA	E PIT 6	13188.00		
12/27/90	3-12/27/90	GA	EAST OF PIT 6	923770.08	367	0.397
12/27/90	2-12/27/90	GA	EAST SIDE OF PIT 6	893021.64	430	0.482
12/27/90	1-12/27/90	GA	NORTH SIDE PIT 6	635500.80	336	0.529

12/28/90	6-12/28/90	GA	EAST OF PIT 6	782340.00	337	0.431
12/28/90	5-12/28/90	GA	NORTH PIT 6	725643.36	340	0.469
12/28/90	4-12/28/90	GA	NORTH PIT 6	556261.44	368	0.662
1/2/91	1-1/2/91	GA	NORTH OF PIT 6	585162.00	334	0.571
1/2/91	2-1/2/91	GA	NORTH OF PIT 6	521803.08	324	0.621
1/2/91	3-1/2/91	GA	NORTH OF PIT	519289.68	365	0.703
1/3/91	4-1/3/91	GA	EAST OF PIT 6	616193.64	425	0.690
1/4/91	5-1/4/91	GA	NORTH OF PIT 6	507211.20	354	0.698
1/4/91	6-1/4/91	GA	EAST OF PIT 6	491238.72	352	0.717
1/8/91	1-1/8/91	GA	NORTH PIT 6	576630.60	313	0.543
1/9/91	2-1/9/91	GA	NORTH OF PIT 6	675481.56	378	0.560
1/9/91	3-1/9/91	GA	EAST PIT 6	680211.00	140	0.206
1/10/91	4-1/10/91	GA	NORTH PIT 6	476144.16	140	0.294
1/10/91	5-1/10/91	GA	EAST OF PIT 6	554618.88	150	0.270
1/10/91	6-1/10/91	GA	EAST OF PIT 6	535970.16	373	0.696
??? indicates possible wrong field information collected						

WESTINGHOUSE MATERIALS COMPANY OF OHIO
Analytical Laboratories
Sample and Data Management

Shelf F04.5
3020

OFFSITE CUSTODY TRANSFER RECORD - ANALYSIS REQUEST

Receiving Laboratory **IT Corporation**
1550 Bear Creek Road
Oak Ridge, TN 37831

Release # 175
Purchase Order # **8-94685**
Page 1 of 1

Sample Type: High Volume Air Filters

Analyses Requested: Total Uranium (reported as result/filter)

ITEM	SAMPLE NO.	ITEM	SAMPLE NO.	ITEM	SAMPLE NO.
1.	12 - 12/18/90	11.	3 - 11/30/90	21.	4 - 1/3/91
2.	13 - 12/18/90	12.	5 - 12/11/90	22.	3 - 1/3/91
3.	6 - 12/14/90	13.	1 - 1/8/91	23.	2 - 1/2/91
4.	7 - 12/14/90	14.	2 - 1/9/91	24.	1 - 1/2/91
5.	10 - 12/17/90	15.	3 - 1/9/91	25.	3 - 12/27/90
6.	11 - 12/17/90	16.	4 - 1/10/91	26.	2 - 12/27/90
7.	16 - 12/19/90	17.	5 - 1/10/91	27.	1 - 12/27/90
8.	17 - 12/19/90	18.	6 - 1/10/91	28.	6 - 12/28/90
9.	1 - 11/25/90	19.	5 - 1/4/91	29.	5 - 12/28/90
10.	2 - 11/29/90	20.	6 - 1/4/91	30.	4 - 12/28/90

WMCO: The container(s) in which the above samples were packaged were sealed by William H. Hayes on 1/18/91.

RECEIVER: I certify that the seal(s) on the container(s) in which the above samples were packaged were intact when received.

Paul McElroy Date 1/22/91.

NOTE: If the seal(s) were not intact, please contact Bill H. Hayes at (513) 738-6221 or Robert H. Hilbert at (513) 738-6522 as soon as possible and send a nonconformance report to Robert H. Hilbert.

Please return this form to Bill H. Hayes in the envelope provided.

30

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

WESTINGHOUSE MAT. CO. OF OHIO
P. O. BOX 398704
CINCINNATI, OHIO 45239
WILLIAM H. HAYES

Date: 05/17/91

Work Order: S1-01-045 P.O. Number: 8-94685

This is the Certificate of Analysis for the following samples:

Client Work ID: RELEASE #175
Date Received: 01/22/91
Number of Samples: 30
Sample Type: FILTERS

Samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
12 - 12/18/90	S1-01-045-01
13 - 12/18/90	S1-01-045-02
6 - 12/14/90	S1-01-045-03
7 - 12/14/90	S1-01-045-04
10 - 12/17/90	S1-01-045-05
11 - 12/17/90	S1-01-045-06
16 - 12/19/90	S1-01-045-07
17 - 12/19/90	S1-01-045-08
1 - 11/25/90	S1-01-045-09
2 - 11/29/90	S1-01-045-10
3 - 11/30/90	S1-01-045-11
5 - 12/11/90	S1-01-045-12
1 - 1/8/91	S1-01-045-13
2 - 1/9/91	S1-01-045-14

Reviewed and Approved:

For L. Lloyd Collins

L. Lloyd Collins
Lab Manager

Company: WESTINGHOUSE MAT. CO. OF OHIO
Date: 05/17/91
Client Work ID: RELEASE #175

IT ANALYTICAL SERVICES
OAK RIDGE, TN

Work Order: S1-01-045

Samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
3 - 1/9/91	S1-01-045-15
4 - 1/10/91	S1-01-045-16
5 - 1/10/91	S1-01-045-17
6 - 1/10/91	S1-01-045-18
5 - 1/4/91	S1-01-045-19
6 - 1/4/91	S1-01-045-20
4 - 1/3/91	S1-01-045-21
3 - 1/3/91	S1-01-045-22
2 - 1/2/91	S1-01-045-23
1 - 1/2/91	S1-01-045-24
3 - 12/27/90	S1-01-045-25
2 - 12/27/90	S1-01-045-26
1 - 12/27/90	S1-01-045-27
6 - 12/28/90	S1-01-045-28
5 - 12/28/90	S1-01-045-29
4 - 12/28/90	S1-01-045-30

Received: 01/22/91

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 12 - 12/18/90 FRACTION 01A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/18/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	2.63E+2	1.26E+2	ug/filt

SAMPLE ID 13 - 12/18/90 FRACTION 02A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/18/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.42E+2	1.18E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 6 - 12/14/90 FRACTION 03A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/14/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.11E+2	1.03E+2	ug/filt

SAMPLE ID 7 - 12/14/90 FRACTION 04A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/14/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	4.10E+2	1.22E+2	ug/filt

SAMPLE ID 10 - 12/17/90 FRACTION 05A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/17/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.36E+2	1.12E+2	ug/filt

SAMPLE ID 11 - 12/17/90 FRACTION 06A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/17/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.96E+2	1.19E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 16 - 12/19/90 FRACTION 07A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/19/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.75E+2	1.21E+2	ug/filt

SAMPLE ID 17 - 12/19/90 FRACTION 08A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/19/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.65E+2	1.13E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 1 - 11/25/90 FRACTION 09A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 11/25/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.86E+2	1.23E+2	ug/filt

SAMPLE ID 2 - 11/29/90 FRACTION 10A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 11/29/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.89E+2	1.17E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 3 - 11/30/90 FRACTION 11A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 11/30/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.10E+2	1.67E+2	ug/filt

SAMPLE ID 5 - 12/11/90 FRACTION 12A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/11/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.60E+2	1.17E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 1 - 1/8/91 FRACTION 13A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/08/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.13E+2	1.03E+2	ug/filt

SAMPLE ID 2 - 1/9/91 FRACTION 14A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/09/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.78E+2	1.15E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 3 - 1/9/91 FRACTION 15A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/09/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	<1.4E+2		ug/filt

SAMPLE ID 4 - 1/10/91 FRACTION 16A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/10/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	<1.4E+2		ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 5 - 1/10/91 FRACTION 17A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/10/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	<1.5E+2		ug/filt

SAMPLE ID 6 - 1/10/91 FRACTION 18A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/10/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.73E+2	1.21E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 5 - 1/4/91 FRACTION 19A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/04/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.54E+2	1.17E+2	ug/filt

SAMPLE ID 6 - 1/4/91 FRACTION 20A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/04/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.52E+2	1.14E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 4 - 1/3/91 FRACTION 21A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/03/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	4.25E+2	1.26E+2	ug/filt

SAMPLE ID 3 - 1/3/91 FRACTION 22A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/03/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.65E+2	1.21E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 2 - 1/2/91 FRACTION 23A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/02/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.24E+2	1.13E+2	ug/filt

SAMPLE ID 1 - 1/2/91 FRACTION 24A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 01/02/91 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.34E+2	1.16E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 3 - 12/27/90 FRACTION 25A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/27/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.67E+2	1.20E+2	ug/filt

SAMPLE ID 2 - 12/27/90 FRACTION 26A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/27/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	4.30E+2	1.27E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # S1-01-045

SAMPLE ID 1 - 12/27/90 FRACTION 27A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/27/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.36E+2	1.18E+2	ug/filt

SAMPLE ID 6 - 12/28/90 FRACTION 28A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/28/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.37E+2	1.17E+2	ug/filt

ITORL OAK RIDGE REPORT
Results by Sample

Work Order # Si-01-045

SAMPLE ID 5 - 12/28/90 FRACTION 29A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/28/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.40E+2	1.11E+2	ug/filt

SAMPLE ID 4 - 12/28/90 FRACTION 30A TEST CODE UTOTAL NAME TOTAL URANIUM
Date & Time Collected 12/28/90 Category FILTERS

PARAMETER	RESULT	2-SIGMA ERROR	Units
U-TOTAL	3.68E+2	1.18E+2	ug/filt

WESTINGHOUSE MAT. CO. OF OHIO

GAMMA SPEC

COUNTED: 04/30/91, 05/01/91, 05/03/91, 05/04/91, 05/05/91, 05/06/91, 05/07/91, 05/08/91, 05/09/91

COUNTED BY: TWB, MSW, JSC, DMN

Post week 3

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020 1/10

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
6 - 1/10/91		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
10 Jan 91	0821	10 Jan 91.	1508	1359.36	1274.4	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	6	360	47	407	1316.88			535970.4

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: East of Pit 6.

VENTILATION/UNUSUAL OCCURENCES: 8 mph NE / 10 mph NE.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (IL):	EQUIPMENT:

DISTANCE (IL):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		49

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

FMPC-2751 (REV. 4/19/89)

FILE COPY

1/12

3020

FMPC
RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
5-1/10/91		85	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
10 JAN 91	0822	10 JAN 91	~~0822~~ 1510	1387.68	1331.04	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	6	360	48	408	1359.36			554618.8

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: EAST of Pit 6

VENTILATION/UNUSUAL OCCURENCES: 8 mph NE / 10 mph NE

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		50

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

FMPC-2751 (REV. 4/19/89)

FILE COPY

1/10

3020

Post week 3.

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
4 - 1/10/91		84	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
10 JAN 91	0829	10 JAN 91	1500	1246.03	1189.44	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	6	360	31	391	1217.76			476144

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North Pit 6.

VENTILATION/UNUSUAL OCCURENCES: 8 mph NE / 10 mph NE

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		51

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

FMPC-2751 (REV. 4/19/89)

FILE COPY

1/9

Post Work 3.

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
3 - 1/9/91		36	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
4 Jan 91	0712	4 Jan 91	1637	1351.04	1360.04	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	45	525.	1355.64			680 211

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: East Pit 6

VENTILATION/UNUSUAL OCCURENCES: 4mpH SW. / 16mpH SW.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (IL):	EQUIPMENT:

DISTANCE (IL): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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FMPC-2751 (REV. 4/19/89)

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1/9/

3020

FMPC
RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
2-1/9/91		SQ-[illegible]	R.C	☐ BZ ☒ GA

SAMPLE START: DATE	TIME	SAMPLE END: DATE	TIME	FLOW RATE: START	END	
9 Jan 91	0747	9 Jan 91	1640	1268.56	1241.05	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS	X 60 = MINUTES	+ EXTRA MIN.	= TOTAL MIN.	AVG. FLOW:	PUMP COUNTER: START	END	AIR VOLUME:
	8	480	53	533	1267.32			675481.56

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Pit 6.

VENTILATION/UNUSUAL OCCURENCES: 4 mph SW / 6 mph SW

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		53

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

FMPC-2751 (REV. 4/19/89)

FILE COPY

1/8/91

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
1 - 1/8/91		58	KC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
8 JAN 91	0742	8 JAN 91	1515	1316.88	1217.76	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	33	455	1267.32			576 liters

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: NORTH Pit 6

VENTILATION/UNUSUAL OCCURENCES: 8 mph NE / 4 mph N.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
6 - 1/4/91		S6	KC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	☒ L/min ☐ m³/min
1 Jan 91	0755	4 Jan 91	1427	1302.72	1203.6	

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	6	360	32	392	1253.16			491737.6

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	P.16		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: East of Dir 6.

VENTILATION/UNUSUAL OCCURENCES: No wind. 14mph NE

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		55

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
1 - 1/4/91		89	RCI	☐ BZ ☒ GA

SAMPLE START: DATE	TIME	SAMPLE END: DATE	TIME	FLOW RATE: START	END	
4 JAN 91	0752	4 JAN 91	1430	1302.72	1346.08	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	6	360	38	398	1371.4			5072.11.2

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Pit 6.

VENTILATION/UNUSUAL OCCURENCES: No wind / 4 mph NE

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		56

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

Post week 2

AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
4 - 1/3/91		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
3JAN91	0747	3JAN91	1500	1472.64	1373.52	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 =	MINUTES:	+	EXTRA MIN.:	=	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7		420		13		433	1423.08			616193.64

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								. E-		
1β, γ								. E-		
2α								. E-		
2β, γ								. E-		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
β, γ								. E-		
6α								. E-		
6β, γ								. E-		
7α								. E-		
7β, γ								. E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: East of Pit 6

VENTILATION/UNUSUAL OCCURENCES: 8 mph NW / 6 mph NW

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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Post week 2

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
3 - 1/3/94		84	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
3JAN94	0758	3 JAN 94	1506	1274.4	1118.64	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	14	434	1196.58			519289.68

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								. E-		
1β, γ								. E-		
2α								. E-		
2β, γ								. E-		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
5β, γ								. E-		
6α								. E-		
6β, γ								. E-		
7α								. E-		
7β, γ								. E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Pit

VENTILATION/UNUSUAL OCCURENCES: 8 mph NW / 6 mph NW

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		58

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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Post week 2

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

AMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
2-1/2/91		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
2 Jan 91	0810	2 Jan 91	1521	1246.08	1175.08	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	11	431	1210.68			521803.08

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Pit 6

VENTILATION/UNUSUAL OCCURENCES: Downwind START / 3 mph WEST STOP

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		59

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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Post week 2

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RADIOLOGICAL SAFETY

3020

AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
1-1-2/91		89	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
2 JAN 91.	0815.	2 JAN 91.	1530	1373.52	1316.88	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	15	435	1345.2			585162

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Pit 6.

VENTILATION/UNUSUAL OCCURENCES: No wind start / 3 mph west stop

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION: 60

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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Post week 1.

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
4 - 12/28/90		89	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
28 Dec 90	0500.	28 Dec 90	1007.	1301.04	1274.4	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	7	427	1302.72			556261.4

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								. E-		
1β, γ								. E-		
2α								. E-		
2β, γ								. E-		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
5β, γ								. E-		
6α								. E-		
6β, γ								. E-		
7α								. E-		
7β, γ								. E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North Pit 6.

VENTILATION/UNUSUAL OCCURENCES: No wind

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

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EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION:

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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Post week 1.

3020

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
5-12/23/90		85.	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
28 Dec 90.	0305.	28 Dec 90	1023.	1670.88.	1642.56.	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 =	MINUTES:	+	EXTRA MIN.:	=	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7		420		18		438	1656.22			725643.36

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								. E-		
1β, γ								. E-		
2α								. E-		
2β, γ								. E-		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
γ								. E-		
6α								. E-		
6β, γ								. E-		
7α								. E-		
7β, γ								. E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North Pit 6.

VENTILATION/UNUSUAL OCCURENCES: No wind.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION: 62

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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Pos wk-1

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

AMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
6 - 12/28/90		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
28 Dec 90	0300	28 Dec 90	1022	1840.8	1699.2	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 =	MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7		420	22	442	1770			782340

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: EAST of Pit 6.

VENTILATION/UNUSUAL OCCURENCES: No wind

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION:

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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FMPC-2751 (REV. 4/19/89)

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post week 1

FMPC
RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
1 - 12/27/90		89	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	☒ L/min ☐ m³/min
27 Dec 90	0720	27 Dec 90	1520	1345.2	1307.72	

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	0	480	1323.96			635500.8

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North side pit 6

VENTILATION/UNUSUAL OCCURRENCES: 5 mph NE / 8 mph NE

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION:

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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Pit WEEK 1

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

AMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
2 - 12/27/90		85	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
27 Dec 90.	0725	27Dec 90	1532	1840.8	1826.64	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	7	487	1833.72			893021.64

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: EAST SIDE Pit 6.

VENTILATION/UNUSUAL OCCURENCES: 5 mph NE / 8 mph NE.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		65

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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Post week 1

FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
3 - 12/27/90		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
27 Dec 90	0714	27 Dec 90	0532	1897.44	1812.48	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	18	498	1854.96			923770.08

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								. E-		
1β, γ								. E-		
2α								. E-		
2β, γ								. E-		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
β, γ								. E-		
6α								. E-		
6β, γ								. E-		
7α								. E-		
7β, γ								. E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: EAST of Pit 6

VENTILATION/UNUSUAL OCCURENCES: 5 mph NE / 8 mph NE.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION: 66

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

3020

AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
45		N/A	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
20 Dec 90	1500	20 Dec 90	2051	28	28	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	51	471.	28			13188

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α	3	.38	.25	2110	20 Dec 90	374	2 min	3.64 E-11	RC	Init
1β, γ		1.96	.436			917		3.58 E-11		
2α	11	11	11	0403	12/25/90	3	5 min	4.29 E-14	DB	5-DAY
2β, γ						18		1.28 E-13		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.			

PRODUCTION IDENTITY:

SPECIFIC LOCATION: E Pit 6.

VENTILATION/UNUSUAL OCCURENCES: 3 mph S / 5 mph SE.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

3020

AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
44		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
20 Dec 90	1500	20 Dec 90	2051	1202.72	1203.6	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	7	420	51	471	1253.16			19478 590238.36

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α	3	.38	.25	2112	20 Dec 90	719	2 min	4.75 E-11	RC	Int.
1β, γ		1.96	.436			1851		4.90 E-11		
2α	"	"	"	0358	12/25	10	5 min	7.06 E-15	DB	5-DAY
2β, γ						25		4.62 E-15		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.			

PRODUCTION IDENTITY:

SPECIFIC LOCATION: E Pit 6.

VENTILATION/UNUSUAL OCCURENCES: 3 mph South / 5 mph SE

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

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EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

FMPC-2751 (REV. 4/19/89)

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FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
16		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
19 Dec 90	0724	19 Dec 90	1540	124608	1217.76	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	16	496	123.92.			61032.3

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								. E-		
1β, γ								. E-		
2α								. E-		
2β, γ								. E-		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
5β, γ								. E-		
6α								. E-		
6β, γ								. E-		
7α								. E-		
7β, γ								. E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION:
East of Pit 6 No wind at start / NE 6mph stop

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.): EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		69

RESPIRATOR TYPE: OTHER PERSONAL PROTECTION:

FMPC 2751 (REV. 4/19/89)

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FMPC
RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
~~13~~ 44		85	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
19 Dec 90	0732	19 Dec 90	1555	1968.24	1713.36	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	22	502	1840.8			30495 ~~924081.6~~

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α	3	.38	.025	1847	19 Dec 90	77	2 min	3.22 E-12	RC	Init
1β, γ		1.96	.436			186		3.03 E-12		
2α	3	.38	.25	1905	20 Dec 90	8	2 min	3.06 E-15	RC	1 DAY
2β, γ		1.46	.436			26		3.74 E-13		
3α	"	"	"	0341	12/24/90	4	5 min	3.55 E-14	[illegible]	5 DAY
3β, γ						27		1.17 E-13		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: West of Pit No wind at start / N.E. 6 mph.

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		70

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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FMPC
RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

PLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
15.		85.	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
19 Dec 90	0732	19 Dec 90	1555	1968.24	1713.36	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	22	502	1840.8			~~30495~~ ~~924081.6~~

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α	3	.38	.25	1847	19 Dec 90	77	2 min	3.22 E-12	RC.	Init
1β, γ		1.96	.436			186		3.08 E-12		
2α	3	.38	.25	1905	20 Dec 90	8	2 min	3.06 E-15	RC	1 DAY
2β, γ		1.96	.436			26		3.74 E-13		
3α								. E-		
3β, γ								. E-		
4α								. E-		
4β, γ								. E-		
5α								. E-		
								. E-		
								. E-		
								. E-		
								. E-		

OTHER SAMPLE DATA

EL:	COORDINATES:	PLANT JOB NO.:
Pit 6.		

No wind at start / N.E. 6 mph.

SPIRATORY PROTECTION REQUIRED:

☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

ABOVE	EQUIPMENT:

DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		71

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
~~44~~ 40		85	RC	☐ BZ ☒ GA

SAMPLE START: DATE	TIME	SAMPLE END: DATE	TIME	FLOW RATE: START	END	
18 Dec 90	0900	18 DEC 90.	1558	1614.24	1614.24	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	EXTRA MIN.:	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START	END	AIR VOLUME:
	6	360	58	418	1614.24			~~[illegible]~~ ~~674[illegible]~~

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α	3	.38	.25	1930	18 Dec 90	15	2 min	8.23 E-13	RC	Init
1β, γ		1.96	.436			39		8.14 E-13		
2α	1	1.1	1		12/23/90	2	5 min	2.31 E-15	RCC	5-DA
2β, γ						20		9.47 E-14		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: IN Pit 6.

VENTILATION/UNUSUAL OCCURENCES: WINDSPEED 3 mph SW START / 10 mph SW STOP

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		72

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
13		86	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
18 Dec 90	0700	18 Dec 90	1611	1189.44 ~~1161.12~~	1104.48 ~~1161~~	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	9	540	11	551	1146.96 ~~1161.12~~			631974.96

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β/γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	pit-6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION:
East of Pit 6

VENTILATION/UNUSUAL OCCURENCES:
wind West 5mpH start / stop SW 10 mph.

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

3020

SAMPLE COLLECTION DATA

AMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
12		89	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
18 Dec 90	0656	18 Dec 90	1615	1203.6	1203.6	☒ L/min ☐ m³/m

CONTAMINANT:	RUN TIME: HOURS:	X 60 =	MINUTES:	+	EXTRA MIN.:	=	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME
	9		540		19		559	1203.6			672812

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR COUN
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION:
North of Pit 6. windspeed 5 mph WSW start / SW 10 stop

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
43		85	RC.	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
17 Dec 90	1250	17 Dec 90.	1507.	1614.24	1614.24.	☑ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	2	120	17	137	1614.24			7.288 ~~221.50.48~~

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α	#3	.38	.25	1958	17Dec90	18	2min	3.04 E-12	RC	Ini
1β, γ		1.96	.436			35		2.20 E-12		
2α	11	11	11	0333	12/22	3	5 min	7.76 E-14	mg	5-DAY
2β, γ						17		2.04 E-13		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65.	Pit 6.		

PRODUCTION IDENTITY: ~~we~~

SPECIFIC LOCATION: WEST SIDE of Pit 6

VENTILATION/UNUSUAL OCCURENCES: SW 6-mph / 10mph SW

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: During ops.
☒ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		75

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
17.		84.	RC	☒ BZ ☐ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
19 Dec 90	0722	19 Dec 90	1607	1331.04	1260.24	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	8	480	45	525	1295.64			680211

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
[illegible]								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION:
North of Pit No wind at start / NE 6 mph stop

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.): EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME: BADGE NO.: JOB CLASSIFICATION: 76

RESPIRATOR TYPE: OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
11	–	89	RC	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	☐ L/min ☐ m³/ml
17 Dec 90	1310	17 Dec 90	1543.	1246.08	1246.08	

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	2	120	33	153.	1246.08			190650.2

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR C COUN
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Pit 6.

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.): EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		77

RESPIRATOR TYPE: OTHER PERSONAL PROTECTION:

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AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
10		86.	RC.	☐ BZ ☒ GA

SAMPLE START: DATE	TIME	SAMPLE END: DATE	TIME	FLOW RATE: START	END	
17 Dec 90	1300	17 Dec 90	1536.	1189.4	1189.4	☒ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS	X 60 =	MINUTES	+	EXTRA MIN.	=	TOTAL MIN.	AVG. FLOW:	PUMP COUNTER: START	END	AIR VOLUME:
	2		120		36		156.	1189.4			~~18552.~~ 18546.

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65	Pit 6.		

PRODUCTION IDENTITY:

SPECIFIC LOCATION: EAST SIDE Pit 6.

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.): EQUIPMENT:

DISTANCE (ft.): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME: BADGE NO.: JOB CLASSIFICATION: 78

RESPIRATOR TYPE: OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
28.		unknown	unknown	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	☒ L/min ☐ m³/min
16 Dec 90	1438.	16 Dec 90	1900	1274.4	1246.08	

CONTAMINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME
	4	240	22	262	1260.24			10,896. ~~330,182.~~

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR COUNT
1α	#3	.38	.25.	1956	17 Dec 90	5	2 min	5.01 E-13	RC	Ini
1β, γ		1.96	.436			16		5.73 E-13		
2α	#3	.38	.250	0209	20 Dec 90	2	5 min	4.08 E-14	Dr	5. Dr
2β, γ		1.96	.436			12		3.60 E-13		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:

PRODUCTION IDENTITY:

SPECIFIC LOCATION:

VENTILATION/UNUSUAL OCCURENCES:

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTR

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (IL): EQUIPMENT:

DISTANCE (IL): DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		79

RESPIRATOR TYPE: OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY

AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
7			PRL	☐ BZ ☑ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
12/14/90	0945	12/14/90	1245	1770	1770	☑ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS	X 60 =	MINUTES	+	EXTRA MIN.	=	TOTAL MIN.	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	4		240		—		240	1770	N/A		424800

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65			

PRODUCTION IDENTITY: PIT 6

SPECIFIC LOCATION: west of pit 6 downwind at start

VENTILATION/UNUSUAL OCCURENCES: start-wind 2-3 mph speed NE direction : finish wind speed 8 mph ESE Direction

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:

BADGE NO.:

JOB CLASSIFICATION: 80

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
6			CN	☐ BZ ☑ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
12/14/90	0930	12/14/90	1320	1302.72	1246.08	☑ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	X 60 =	MINUTES:	+	EXTRA MIN.:	=	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	3		180		50		230	1274.4	NA		293112

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-		
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
C-65			

PRODUCTION IDENTITY: PIT 6

SPECIFIC LOCATION: PIT6 UPWIND located North end of pit

VENTILATION/UNUSUAL OCCURENCES: Start wind Speed: 2-3 direction: NE Final wind speed [illegible]

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (IL):	EQUIPMENT:

DISTANCE (IL): DIRECTION (N,S,E,W): DIST. FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:	

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AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
5		0088	CN	☐ BZ ☒ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	☒ L/min ☐ m³/m
12/11/90	1403	12/11/90	1803	1354.36	1302.72	

CONTAMINANT:	RUN TIME: HOURS:	X 60 =	MINUTES:	+	EXTRA MIN.:	=	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME
	4				240		240	1331.04	N/A		319449.

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR COU
1α								E-	CN	
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65			

PRODUCTION IDENTITY:

SPECIFIC LOCATION: NORTH OF PM 6

VENTILATION/UNUSUAL OCCURENCES: WIND DIRECTION: SSW SPEED: 9

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR E

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):

EQUIPMENT:

DISTANCE (ft.):

DIRECTION (N,S,E,W):

FROM EQUIPME

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:

RESPIRATOR TYPE:

OTHER PERSONAL PROTECTION:

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RADIOLOGICAL SAFETY
AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
3		0088	CW	☐ BZ ☑ GA

SAMPLE START: DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	☑ L/min ☐ m³/m
11/30/90	1157	11/30/90	1657	1331.04	1246.08	

CONTAMINANT:	RUN TIME: HOURS:	MINUTES:	EXTRA MIN.:	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME
	5 x 60 =	300 +	0 =	300	1288.56	N/A		386568

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR COUN
1α								E-	CW	
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β, γ								E-		
6α								E-		
6β, γ								E-		
7α								E-		
7β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
1C-65			

PRODUCTION IDENTITY:

SPECIFIC LOCATION: North of Plant 6 down wind

VENTILATION/UNUSUAL OCCURENCES: Wind: direction: SSW speed: 7

ZONE: ☐ 1 ☐ 2 ☐ 3

MINIMUM RESPIRATORY PROTECTION REQUIRED: ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		83

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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AIR SAMPLE REPORT

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SAMPLE COLLECTION DATA

SAMPLE NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
2		0088	RR	☐ BZ ☑ GA

SAMPLE START DATE:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
11/29/90 ~~12/12/90~~	1057	11/29/90 ~~12/12/90~~	1639	1246.08	1217.76	☑ L/min ☐ m³/min

CONTAMINANT:	RUN TIME: HOURS:	MINUTES:	EXTRA MIN.:	TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	5 X 60 =	300 +	42 =	342	1231.92	N/A		421316.6

SAMPLE COUNT RECORD

	INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
1α								E-	RR	
1β, γ								E-		
2α								E-		
2β, γ								E-		
3α								E-		
3β, γ								E-		
4α								E-		
4β, γ								E-		
5α								E-		
5β								E-		
6α								E-		
6β, γ								E-		
α								E-		
β, γ								E-		

OTHER SAMPLE DATA

BUILDING/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
K-65			

PRODUCTION IDENTITY:

SPECIFIC LOCATION: Center North part of pit 6

VENTILATION/UNUSUAL OCCURENCES: WIND SPEED: 8mph DIRECTION: SSW

ZONE:	MINIMUM RESPIRATORY PROTECTION REQUIRED:
1 ☐ 2 ☐ 3	☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

HEIGHT ABOVE FLOOR (ft.):	EQUIPMENT:

DISTANCE (ft.):	DIRECTION (N,S,E,W):	FROM EQUIPMENT:

BZ SAMPLE DATA

EMPLOYEE NAME:	BADGE NO.:	JOB CLASSIFICATION:
		84

RESPIRATOR TYPE:	OTHER PERSONAL PROTECTION:

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AIR SAMPLE REPORT

SAMPLE COLLECTION DATA

E NUMBER:	SAMPLE MEDIUM:	PUMP NUMBER:	COLLECTOR'S INITIALS:	SAMPLE TYPE:
1		0088	HF	☐ BZ ☑ GA

E START:	TIME:	SAMPLE END: DATE:	TIME:	FLOW RATE: START:	END:	
25/90	1000	~~12/12/90~~ 11/25/90	1517	991.2	1019.52	☑ L/min ☐ m³/min

MINANT:	RUN TIME: HOURS:	X 60 = MINUTES:	+ EXTRA MIN.:	= TOTAL MIN.:	AVG. FLOW:	PUMP COUNTER: START:	END:	AIR VOLUME:
	5	300	17	317	1005.36	N/A		318699.4

SAMPLE COUNT RECORD

INST. NO.	BKGD.	EFF.	TIME	DATE	GROSS COUNTS	COUNT TIME	ACTIVITY µCi/cc	RST	HOUR OF COUNT
							. E-	HF	
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		
							. E-		

OTHER SAMPLE DATA

G/PLANT:	LEVEL:	COORDINATES:	PLANT JOB NO.:
65			

CTION IDENTITY:

C LOCATION:
North west corner of pit 6

ATION/UNUSUAL OCCURENCES:
WIND: DIRECTION: NW SPEED: 6

MINIMUM RESPIRATORY PROTECTION REQUIRED:

☐ 2 ☐ 3 ☐ HALF FACE ☐ FULL FACE ☐ AIRLINE WITH FULL FACE ☐ RWP REQUIRED FOR ENTRY

GA SAMPLE DATA

ABOVE FLOOR (IL): EQUIPMENT:

CE DIRECTION (N,S,E,W): FROM EQUIPMENT:

BZ SAMPLE DATA

EE NAME: BADGE NO.: JOB CLASSIFICATION: 85

ATOR TYPE: OTHER PERSONAL PROTECTION: