



July 22, 2013  
ACO 13-0040

ATTN: Document Control Desk  
Ms. Christiana Lui, Director  
Division of Security Policy  
Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**American Centrifuge Lead Cascade Facility  
Docket Number 70-7003; License Number SNM-7003  
Submission of Changed Pages of the Emergency Plan for the American Centrifuge Lead  
Cascade Facility**

Dear Ms. Lui:

**Purpose**

In accordance with 10 *Code of Federal Regulations* (CFR) 70.32(i), American Centrifuge Operating, LLC (ACO) hereby submits to the U.S. Nuclear Regulatory Commission (NRC) changed pages of the Emergency Plan for the American Centrifuge Lead Cascade Facility (LCF) as Enclosure 1 of this letter.

**Discussion**

The changes noted in Enclosure 1 have been reviewed in accordance with 10 CFR 70.32 and has been determined not to decrease the effectiveness of the applicable plan. Revision bars in the right hand margin depict changes from the previous revision submitted to the NRC.

**Action**

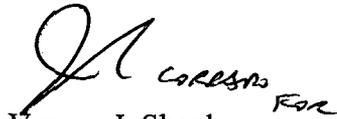
No specific action is requested concerning this submittal.

Ms. Christiana Lui  
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**Contact**

If you have any questions regarding this matter, please contact me at (740) 897-2343.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Shanks" with a stylized flourish. To the right of the signature, the words "CORRESPOND" and "FOR" are written in a smaller, less legible script.

Vernon J. Shanks  
Regulatory Manager

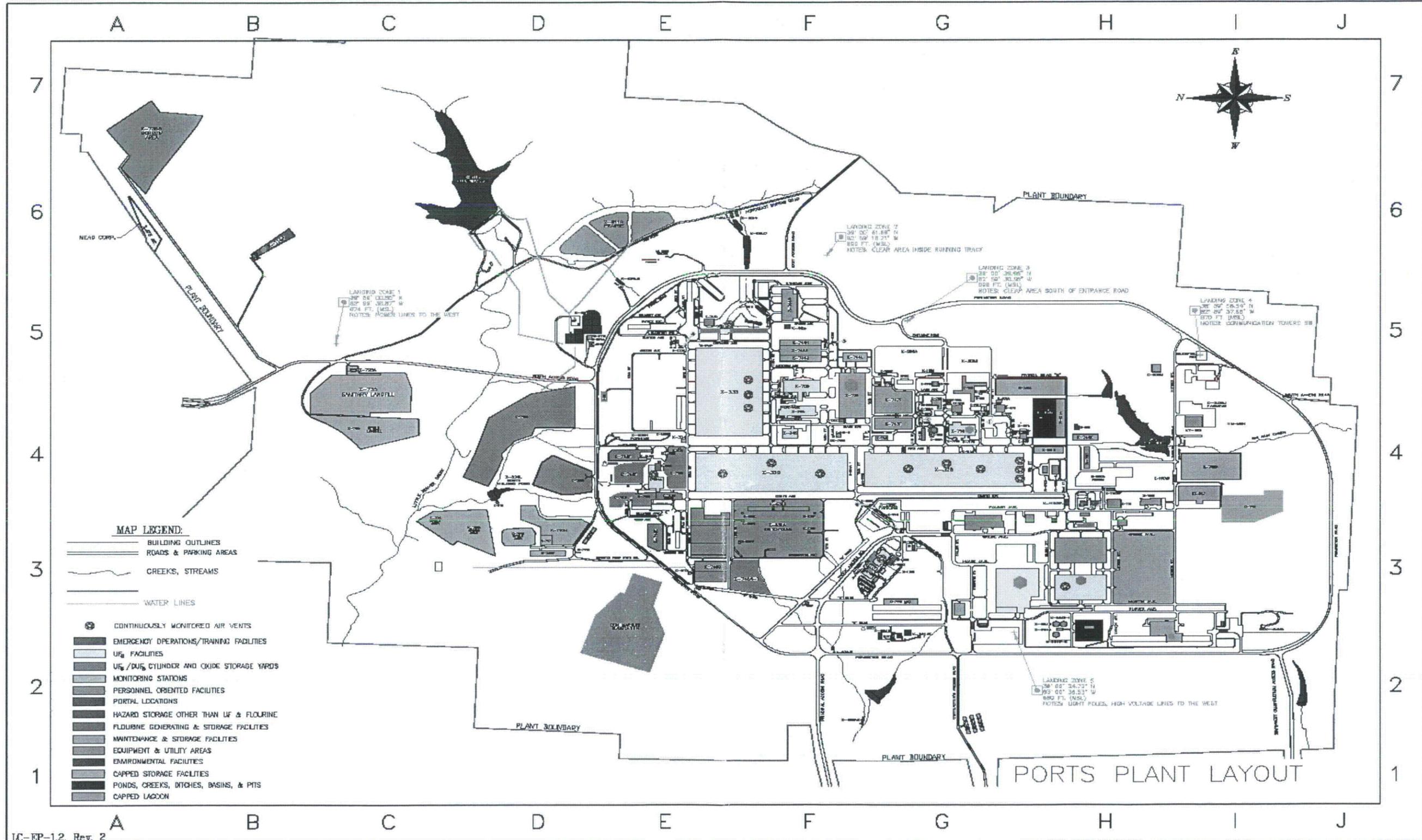
Enclosure: As Stated

cc: J. Downs, NRC HQ  
J. Hickey, NRC Region II  
L. Pitts, NRC Region II  
O. Siurano, NRC HQ  
B. Smith, NRC HQ

**Enclosure 1 to ACO 13-0040**

**Changed Pages of the Emergency Plan for the American Centrifuge Lead Cascade Facility**

# PORTSMOUTH GASEOUS DIFFUSION PLANT EMERGENCY PLAN MAP



IC-EP-1.2, Rev. 2

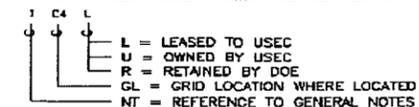
Figure I-2 PORTS Plant Layout

## PORTSMOUTH GASEOUS DIFFUSION PLANT EMERGENCY PLAN MAP INDEX

FAC #	FAC DESCRIPTION	NT	GL	LS	FAC #	FAC DESCRIPTION	NT	GL	LS	FAC #	FAC DESCRIPTION	NT	GL	LS
X-100	ADMINISTRATION BLDG		G5	L	X-605H	BOOSTER PUMP HOUSE & FAC		G3	L	X-744Y	WASTE STORAGE YARD		E3	R
X-100B	AIR CONDITIONING EQUIP BLDG		G4	L	X-605I	CHLORINATOR BLDG		G3	L	X-745B	TOLL ENRICHMENT PROCESS GAS YARD		E4	R
X-101	HEATER SERVICES		G4	L	X-605J	DIESEL GENERATOR BLDG		G3	L	X-745C	W DUF STORAGE YARD		E3	R
X-102	CAFETERIA		G4	L	X-611	WATER TREATMENT PLANT		D5	L	X-745D	CYLINDER STORAGE YARD		E3	R
X-103	AUX OFFICE BLDG		G4	R	X-611A	PRAIRIE		E6	R	X-745E	NW DUF STORAGE YARD		E3	R
X-104	GUARD HEADQUARTERS		G5	L	X-611B	SLUDGE LAGOON		D6	L	X-745F	N PROCESS GAS STOCKPILE YARD		E4	L
X-104A	INDOOR FIRING RANGE		G5	L	X-611C	FILTER BLDG		D5	L	X-745G	CYLINDER STORAGE YARD		D4	L
XT-104B	PROTECTIVE FORCES OPERATIONS		G4	U	X-611D	RECARBONIZATION INSTRUMENT BLDG		D5	L	X-745G-1	CYLINDER STORAGE YARD		E3	R
XT-104C	PROTECTIVE FORCES SHOWER/LOCKER		G4	U	X-611E	CLEARWELL & CHLORINE BLDG		D5	L	X-745H	CYLINDER STORAGE YARD		D4	L
X-106	TACTICAL RESPONSE BLDG		G4	L	X-612	ELEVATED WATER TANK		F4	L	X-747	CLEAN SCRAP YARD		D3	L
X-106C	NEW FIRE TRAINING BLDG		G3	L	X-614	SEWAGE PUMPING STA		F4	L	X-747A	MATERIAL STORAGE YARD		G4	L
X-108A	S PORTAL & SHELTER		G5	L	X-614B	SEWAGE LIFT STA		E4	L	X-747B	MATERIAL STORAGE YARD		G4	L
X-108B	N PORTAL & SHELTER		G5	L	X-614D	S SEWAGE LIFT STA		I4	L	X-747C	MATERIAL STORAGE YARD		E5	L
X-108E	CONSTRUCTION PORTAL		F4	L	X-614P	NE SEWAGE LIFT STA		E5	L	X-747D	MATERIAL STORAGE YARD		E5	L
X-108H	PIKE AVE PORTAL		E4	L	X-614Q	SEWAGE BOOSTER PUMP STATION		G4	L	X-747E	MATERIAL STORAGE YARD		E5	L
X-108M	SECURITY PORTAL		E4	R	X-817	S HOLDING POND & PH CONTROL FAC		H4	L	X-747F	MISCELLANEOUS MATERIAL STORAGE YARD		F5	L
X-108N	SECURITY PORTAL		E4	R	X-818	N HOLDING POND STORAGE BLDG		H4	L	X-747H	NW CONTAMINATED SCRAP YARD		D3	R
X-108P	SECURITY PORTAL		F3	R	X-821	COAL PILE RUNOFF TREATMENT FAC		H4	L	X-748	TRUCK SCALE FAC		G3	R
X-109B	PERSONNEL MONITORING STA		F5	L	X-822	S GROUNDWATER TREATMENT BLDG		H4	R	X-749	S CONTAMINATED MATERIAL STORAGE YARD (CAPPED)		H4	R
X-109E	PERSONNEL MONITORING STA		G4	R	X-623	N GROUNDWATER TREATMENT BLDG		F5	R	X-749A	S CLASSIFIED BURIAL YARD (CAPPED)		H5	R
X-111A	SNM MONITORING PORTAL (X-326)		G4	R	X-624	LITTLE BEAVER GROUNDWATER TREATMENT FAC		E6	R	X-749B	PETER KIEWIT LANDFILL (CAPPED)		H4	R
X-111B	SNM MONITORING PORTAL (NW X-326)		F4	R	X-624-1	LITTLE BEAVER GROUNDWATER TREATMENT DECONTAMINATION PAD		E6	R	X-750	MOBILE EQUIP MAINTENANCE GARAGE		G4	L
X-112	DATA PROCESSING BLDG		H4	L	X-625	PILOT SCALE TREATMENT FAC		I3	R	X-750A	GARAGE STORAGE BLDG		G4	L
X-114A	OUTDOOR FIRING RANGE		B6	L	X-626-1	RECIRCULATING WATER PUMP HOUSE		H4	R	X-751	GCEP MOBILE EQUIP GARAGE		F3	R
X-120H	NEW WEATHER STA		I4	L	X-626-2	COOLING TOWER		H4	R	X-752	WAREHOUSE		D3	R
X-206A	N MAIN PARKING LOT		G5	L	X-627	GROUNDWATER TREATMENT FACILITY		F4	R	X-788	CHEMICAL ENGINEERING BLDG		G4	R
X-206B	S MAIN PARKING LOT		G5	L	X-633-1	RECIRCULATING WATER PUMP HOUSE		E5	R	X-1000	ADMINISTRATION BLDG		H4	L
X-206E	CONSTRUCTION PARKING LOT		G4	L	X-633-2A	COOLING TOWER		E5	R	X-1007	FIRE STA		H4	L
X-206H	PIKE AVE PARKING LOT		E4	L	X-633-2B	COOLING TOWER		E5	R	X-1020	EMERGENCY OPERATIONS CENTER (EOC)		H4	L
X-206J	S OFFICE PARKING LOT		I4	L	X-633-2C	COOLING TOWER		E5	R	X-1300	DUF6 CONVERSION BUILDING		F3	R
X-230J-2	S HOLDING POND EFFLUENT MONITORING STA		I4	L	X-633-2D	COOLING TOWER		E5	R	X-1305	HYDROGEN FLUORIDE STORAGE TANK AREA		F3	R
X-230J-3	W ENVIR MONITORING STA		F2	L	X-640-1	FIRE WATER PUMP HOUSE		E5	L	X-1320	POTASSIUM HYDROXIDE REGENERATION BUILDING		F3	R
X-230J-5	W HOLDING POND & EMVR SAMPLING BLDG		F2	L	X-640-2	ELEVATED WATER TANK		F4	L	X-1745A	FULL CYLINDER STORAGE AREA		F3	R
X-230J-6	NE HOLDING POND & MONITORING STA		E8	L	X-640-1A	FIRE WATER PUMP HOUSE SUBSTATION		E5	L	X-1745C	OXIDE CYLINDER STORAGE AREA		FE	R
X-230J-7	E HOLDING POND & MONITORING STA		F6	L	X-640-2A	ELEVATED WATER TANK AUX. BLDG.		F4	L					
X-230J-8	N ENVIR SAMPLING STA		G3	R	X-670	DRY AIR PLANT		G4	L					
X-230K	S HOLDING POND		H4	L	X-670A	COOLING TOWER		G4	L					
X-230L	N HOLDING POND		D4	L	X-675	PLANT NITROGEN STATION		G4	L					
X-230M	CLEAN SITE NE OF XT-801		H5	R	X-680	BLOWDOWN SAMPLE & TREATMENT BLDG.		G3	L					
X-231A	SE OIL BIODEGRADATION PLOT		H4	R	X-690	STEAM PLANT		G4	R					
X-231B	SW OIL BIODEGRADATION PLDT		H4	R	X-700	CONVERTER SHOP & CLEANING BLDG		F5	L					
X-300	PLANT CONTROL FAC		G4	L	X-700A	AIR CONDITIONING EQUIP BLDG		F5	R					
X-300A	PROCESS MONITORING BLDG		G4	L	X-701B	HOLDING POND (DRAINED)		F5	R					
X-300B	PLANT CONTROL FAC CARPORT		G4	L	X-701E	NEUTRALIZATION BLDG		F5	R					
X-300C	PROCESS BLDG		G4	R	X-705	DECONTAMINATION BLDG		F4	L					
X-326	L-CAGE, L-CAGE GLOVE BOX & STORAGE AREA		G4	R	X-705D	HEATING BOOSTER PUMP BLDG		F4	L					
X-330	PROCESS BLDG		F4	R	X-705E	OXIDE CONVERSION AREA		E4	R					
X-333	PROCESS BLDG		E5	R	X-710	TECHNICAL SERVICES BLDG		G4	L					
X-334	TRANSFORMER CLEANING BLDG		E4	R	X-710A	TECHNICAL SERVICES GAS MANIFOLD		G4	L					
X-342A	FEED, VAPORIZATION & FLUORINE GENERATION BLDG		E4	R	X-710B	SHED		G4	L					
X-342B	FLUORINE STORAGE BLDG		E4	R	X-720	EXPLOSION TEST FAC		G4	L					
X-343	FEED, VAPORIZATION & SAMPLING BLDG.		E5	R	X-720B	MAINTENANCE & STORES BLDG		F4	L					
X-343A	SECURITY PORTAL		G4	U	X-720C	RADIO BASE STA BLDG		F4	L					
X-344A	UFS SAMPLING FAC		E4	R	X-720D	PAINT & OIL STORAGE BLDG		F4	L					
X-344B	MAINTENANCE STORAGE BLDG		E4	R	X-721	RADIATION INSTRUMENT CALIBRATION FAC		F4	L					
X-345	SNM STORAGE BLDG		F4	R	X-734	OLD SANITARY LANDFILL		B4	R					
X-501	SUBSTATION		G4	L	X-734A	CONSTRUCTION SPOILS DISPOSAL AREA		C3	R					
X-501A	SUBSTATION		G4	L	X-734B	CONSTRUCTION SPOILS DISPOSAL AREA		D3	R					
X-502	SUBSTATION		G4	L	X-735	SANITARY LANDFILL		C5	R					
X-530A	SWITCH YARD		F3	L	X-735A	LANDFILL UTILITY BLDG		C5	R					
X-530B	SWITCH HOUSE		F4	L	X-735B	BORROW AREA		A7	R					
X-530C	TEST & REPAIR BLDG		F3	L	X-736	W CONSTRUCTION SPOILS LANDFILL		C4	R					
X-530D	OIL HOUSE		F3	L	X-741	OIL DRUM STORAGE FAC		F5	L					
X-530E	VALVE HOUSE		F3	L	X-742	GAS CYLINDER STORAGE FAC		F5	L					
X-530F	VALVE HOUSE		F3	L	X-743	LUMBER STORAGE SHED		G4	L					
X-530G	CCEP OIL PUMPING STA		F3	L	X-744B	SALT STORAGE SHED		D3	L					
X-533	TRANSFORMER STORAGE PAD		E4	R	X-744C	BULK STORAGE BLDG		F5	R					
X-533A	SWITCH YARD		E4	R	X-744H	BULK STORAGE BLDG		F5	L					
X-533B	SWITCH HOUSE		E6	R	X-744J	BULK STORAGE BLDG		F5	L					
X-533C	TEST & REPAIR BLDG		E6	R	X-744K	WAREHOUSE K		H4	R					
X-533D	OIL HOUSE		E4	R	X-744L	STORES & MAINTENANCE BLDG		F5	L					
X-533E	VALVE HOUSE		E6	R	X-744N	WAREHOUSE N NON UEA		G2	R					
X-533F	VALVE HOUSE		E4	R	X-744P	WAREHOUSE P NON UEA		G2	R					
X-533H	MONITORING STATION #1		E6	R	X-744Q	WAREHOUSE Q NON UEA		G2	R					
X-533I	CAS RECLAIMING BART GARAGE		E6	R	X-744S	WAREHOUSE S NON UEA		G3	R					
X-540	TELEPHONE BLDG		G4	L	X-744W	SURPLUS & SALVAGE BLDG		D3	L					
X-600	STEAM PLANT FAC		H4	L										
X-600A	COAL PILE YARD		H4	L										
X-600B	STEAM PLANT SHOP		G4	L										
X-600C	ASH WASH TREATMENT BLDG		H4	L										

### GENERAL NOTES

1. THE COMMON AREA LEASED BOUNDARY ASSOCIATED WITH DITCHES, CREEKS, AND WATERWAYS (EXCEPT PONDS) IS DEFINED AS 100 FOOT PARALLEL TO THE CENTERLINE OF THE WATER EACH DIRECTION, EXCEPT WHERE THE BOUNDARY HAS BEEN DEFINED BY A ROADWAY OR OTHER PHYSICAL BOUNDARY.
2. THE COMMON AREA LEASED BOUNDARY ASSOCIATED WITH PONDS IS DEFINED 100 FOOT PARALLEL FROM TOP OF POND BANK, EXCEPT WHERE THE BOUNDARY HAS BEEN DEFINED BY A ROADWAY OR OTHER PHYSICAL BOUNDARY.
3. THIS FACILITY SHOWN IN EXHIBIT A, NOT SHOWN ON THIS REVISION OF OF LEASE MAP.
4. THE MAP FACILITY INDEX FIELDS ARE DEFINED AS FOLLOWS BELOW:



### ABBREVIATION LEGEND

- |                             |                                    |
|-----------------------------|------------------------------------|
| AOC = AREA OF CONTAMINATION | GL = GRID LOCATION                 |
| AUX = AUXILIARY             | LS = LEASE STATUS                  |
| AVE = AVENUE                | N = NORTH                          |
| BLDG = BUILDING             | NT = NOTE                          |
| E = EAST                    | S = SOUTH                          |
| ENVIR = ENVIRONMENTAL       | STA = STATION                      |
| EQUIP = EQUIPMENT           | SWMU = SOLID WASTE MANAGEMENT UNIT |
| FAC = FACILITY              | W = WEST                           |

### MONITORING STATIONS

NO.	LOCATION	PHONE
1.	X-670 DRY AIR PLANT	2238
2.	X-109E MINI MOBILE SOUTHWEST CORNER OF MAHONING AVE AND 11ST	5956
3.	X-109B FRAME BUILDING EAST OF X-106	2535
4.	X-533H TRAILER - WEST SIDE OF X-640-1	4183
5.	NOT USED	
6.	X-108E PEDESTRIAN PORTAL	4122
7.	X-1007 FIRE STATION	5611

### PA/SIREN LOCATIONS

NO.	LOCATION
1.	SOUTH OF X-100
2.	NORTH SIDE OF X-745F
3.	NORTH EAST OF X-6619

### PORTS PLANT LAYOUT INDEX

Figure 1-2a PORTS Plant Layout Index