

PART 1 – THE SCHEDULE

SECTION C – STATEMENT OF WORK

X-330 Material Sizing Area

Phase 1 Demolition & Repair

Dated 9/02/2025

Revision 0

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1. DESCRIPTION OF WORK - GENERAL

1.1. Objective.

- 1.1.1. The X-330 Material Sizing Area is designed, constructed, and operated to facilitate the safe Decontamination and Decommissioning (D&D) of X-330 Converters, Compressors, and other Process Gas Equipment (PGE) within the X-330 Facility. The method for the D&D of the PGE is characterization, segmentation, material deposit mining, and ultimately, final disposition as waste at the appropriate waste facility. The processes performed in the X-330 MSA aid in reducing the facility's radiological hazard category from Hazard Category 2 to less than Hazard Category 3. This enables the ultimate demolition and disposal of the remainder of the X-330 Facility.
- 1.1.2. The X-330 Radiological Boundary Control Stations (BCS) is designed, constructed, and operated to support the safe Decontamination and Decommissioning (D&D) of the X-330 Facility. The Radiological Boundary Control Stations in the X-330 Facility is collocated with the MSA and a secondary which is located on the X-330 Operations Floor as directed by Radiological Protection Personnel. The new BCS Areas is for radiological workers to Don/Doff Personal Protective Equipment (PPE), Perform maintenance on PPE, charge equipment and instrumentation, review and sign on to Radiological Work Permits (RWP) via Kiosk, and conduct radiological contamination screening using the Personal Contamination Monitor (PCM).

1.2. General Description of Work.

- 1.2.1. The Material Sizing Area (MSA) will be constructed on the West side of the X-330 Facility on the Operations Floor (Ground Floor). The MSA design is approximately 22,842 ft². The Boundary Control Station (BCS) is collocated with the MSA and sits to the north of the MSA. The BCS is approximately 12,670 ft². The project will be executed in a phased approach. At this time it is requested that contractor proposals be limited to the demolition work described hereafter in red.
- 1.2.2. **Demolition** – Filter houses, Supply fan foundations (concrete), tunnel access (CMU), lube oil tank (10,000 gallon, empty) with containment barrier (CMU), platforms, and ductwork, sprinkler riser housing.
- 1.2.3. **Repair and Fill**- Filter houses repair and concrete fill, tunnel access hole repair and concrete fill, lube oil tank area repair and grout fill, platforms repair and concrete fill.
- 1.2.4. **Architectural & Structural Construction** – MSA and BCS walls, roll up doors, doors.

- 1.2.5. **Civil Construction** – X-330 Facility west side External HVAC and transformer concrete pads siting, excavation, preparation, pour, and finish. X-330 Facility east side new roll up door installation exterior grading, access road preparation, concrete pour, and finish.
- 1.2.6. **Mechanical Construction** – Installation of HVAC Systems and Exhaust Filtration Systems for the MSA and the BCS Areas.
- 1.2.7. **Electrical Construction** – Electrical distribution and supply from point of 13.8kV supply to end use point of service for MSA and BCS systems.
- 1.3. The X-330 MSA and BCS design, construction, and operation are currently under Department of Energy Contract DEAC3010CC40017; however, a transfer of contract is planned for 1 October 2025.

2. SPECIFICATIONS, DRAWINGS, ATTACHMENTS, AND EXHIBITS

- 2.1. All Work shall be performed in strict accordance with the following specifications, drawings and other documents. Contractor shall notify the Company in writing of any conflict between these specifications and Federal or State guidelines.
- 2.2. Specifications
 - 2.2.1. Subfloor is ~10" thick with rebar reinforcement attaching separately poured pedestals on surface.
 - 2.2.2. The surface area of the floor is to be finished level with no obstructions or deviations that will impede equipment or foot traffic.
 - 2.2.3. J-8 Submittal Register.
- 2.3. Codes and Standards.
 - 2.3.1. American Concrete Institute (ACI).
 - 2.3.1.1. ACI 302.1R-04 Guide for Concrete Floor and Slab Construction.
 - 2.3.1.2. ACI 318-11, Structural Concrete.
 - 2.3.1.3. ACI-562-21-Assessment-Repair-and-Rehabilitation-of-Existing-Concrete.
 - 2.3.1.4. ACI 562-19 Code Requirements for Assessment, Repair, and Rehab of Existing Concrete Structures.
 - 2.3.2. American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE)
 - 2.3.2.1. Handbook of Fundamentals.
 - 2.3.2.2. Handbook of Refrigeration.

- 2.3.2.3. Handbook of HVAC Applications.
- 2.3.2.4. Handbook of HVAC Systems and Equipment.
- 2.3.2.5. Standard 15: Safety Code for Mechanical Refrigeration.
- 2.3.2.6. Standard 52.2: Method of Testing: General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size.
- 2.3.2.7. Standard 62.1: Ventilation and Acceptable Indoor Air Quality.
- 2.3.2.8. Standard 111: Practices for Measurement, Testing, Adjusting and Balancing of Building HVAC Systems.
- 2.3.2.9. Guideline 0-2005: The Commissioning Process.
- 2.3.2.10. Guideline 4-2008: Preparation of Operating and Maintenance Documentation for Building Systems.
- 2.3.3. American Society of Mechanical Engineers (ASME).
 - 2.3.3.1. ASME B30.2, Overhead and Gantry Cranes.
 - 2.3.3.2. ASME B30.20, Below the Hook Lifting Devices.
 - 2.3.3.3. ASME B30.26, Rigging Hardware.
 - 2.3.3.4. ASME B31.1, Pressure Piping.
 - 2.3.3.5. ASME NQA-1-2022, Quality Assurance requirements for Nuclear facility Applications.
- 2.3.4. American Society for Testing and Materials (ASTM).
 - 2.3.4.1. ASTM A36, Standard Specification for Carbon Structural Steel.
 - 2.3.4.2. ASTM-C94, Specifications for Ready-Mix Concrete.
 - 2.3.4.3. ASTM-A615-14, Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcements.
- 2.3.5. Combined Federal Regulations (CFR).
 - 2.3.5.1. 10 CFR 830, Nuclear Safety Management (Subpart A – Quality Assurance Requirements and Subpart B – Safety Basis Requirements).
 - 2.3.5.2. 29 CFR 1910, Occupational Safety and health Administration (OSHA).
 - 2.3.5.3. 29 CFR 1926, Safety and Health Regulations for Construction.

- 2.3.6. Department of Energy (DOE).
 - 2.3.6.1. DOE O 414.1D, Chg. 2, Quality Assurance.
 - 2.3.6.2. DOE O 420.1C, Chg. 3, Facility Safety (Chapter 2).
 - 2.3.6.3. DOE O 433.1B, Maintenance Management Program for DOE Nuclear Facilities (Maintenance Management Program Requirements – Post Maintenance Testing).
 - 2.3.6.4. DOE O 435.1, Radioactive Waste Management.
 - 2.3.6.5. DOE-STD-1066-2023, Fire Protection.
 - 2.3.6.6. DOE-STD-1073-2016, Configuration Management.
 - 2.3.6.7. DOE-STD-1090-2020, Hoisting and Rigging.
 - 2.3.6.8. DOE-STD-1189-2016, Integration of Safety Into the Design Process.
- 2.3.7. National Fire Protection Association (NFPA)
 - 2.3.7.1. NFPA 13, Standard for the Installation of Sprinkler Systems.
 - 2.3.7.2. NFPA 14, Standard for the Installation of Standpipe and Hose Systems.
 - 2.3.7.3. NFPA 17A, Standard for Wet Chemical Extinguishing Systems.
 - 2.3.7.4. NFPA 30, Flammable and Combustible Liquids Code.
 - 2.3.7.5. NFPA 70E, Standard for Electrical Safety in the Workplace.
 - 2.3.7.6. NFPA 72, National Fire Alarm and Signaling Code.
 - 2.3.7.7. NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems.
 - 2.3.7.8. NFPA 101, Life Safety Code.
 - 2.3.7.9. NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations.
- 2.3.8. Sheet Metal and Air Conditioning Contractors' National Association, Inc., (SMACNA).
 - 2.3.8.1. HVAC Duct Construction Standards: Metal and Flexible HVAC Air Duct Leakage Test Manual.
- 2.3.9. Underwriters' Laboratories (UL).

2.3.9.1. UL50, Enclosures for Electrical Equipment for Types 12, 3, 3R, 4, 4X, 5, 6, 6P, 12, 12K, and 13.

2.3.9.2. UL67, Panelboards.

2.3.9.3. UL1558, Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear.

2.3.9.4. UL 1994 Standard for Luminous Egress Path.

2.3.9.5. UL 9540, Energy Storage Systems and Equipment.

2.3.9.6. UL 9540A, Battery Energy Storage System Test Method.

2.4. Sketches / Drawings/ Manuals.

2.4.1. Drawings for Demolition, Removal, and Repair, *Table 1 X-330 MSA Demo & Repair*

Drawing Number	Description	Revision	Exceptions to Drawings
ARCHITECTURAL			
X-330 31-A	PLANS AND SECTIONS FILTER ROOMS NO 11 THRU 24	0	
X-330 32-A	PLANS AND SECTIONS FILTER ROOMS NO 1 THRU 10	0	
X-330 67-A	GROUND FLOOR PART PLAN	1	
X-330 68-A	GROUND FLOOR PART PLAN	0	
X-330 70-A	GROUND FLOOR PART PLAN	1	
X-330 71-A	GROUND FLOOR PART PLAN	0	
X-330 72-A	GROUND FLOOR PART PLAN	1	
X-330 73-A	GROUND FLOOR PART PLAN	1	NOTE- ALL VCCs REMOVED
X-330 74-A	GROUND FLOOR PART PLAN	2	NOTE- ALL VCCs REMOVED
X-330 75-A	GROUND FLOOR PART PLAN	2	
X-330-7312-A	PROCESS VENTILATION BUILDING X-330 FILTER ROOM FIRE	0	
ELECTRICAL			
X-330-3.10-E	X-530 RIGHT-SIZE SWITCHYARD X-330 POWER DISTRIBUTION 13.8 KV SIMPLIFIED ONE-LINE DIA.	0	
X-330-1001-E	AUXILLIARY POWER KEY PLAN GROUND FLOOR UNITS 29-6, 29-5, 29-	7	
X-330-1020-E	AUXILIARY POWER-GROUND FLOOR PART PLAN-PART 7	2	NOTE- ALL SUBSTATIONS, CAPACITORS, VCCs, LCCs, AND FANS WITH MOTORS REMOVED
X-330 1023-E	AUXILIARY POWER-GROUND FLOOR PART PLAN-PART 10	4	NOTE- ALL SUBSTATIONS, CAPACITORS, VCCs, LCCs, AND FANS WITH MOTORS REMOVED
X-330 1026-E	AUXILIARY POWER-GROUND FLOOR PART PLAN-PART 13	3	NOTE- ALL SUBSTATIONS, CAPACITORS, VCCs, LCCs, AND FANS WITH MOTORS REMOVED
X-330-1092-E	AUXILIARY POWER GROUND FLOOR CABLE RACK PLAN PART 7	0	NOTE- ALL SUBSTATIONS, VCCs, AND LCCs REMOVED
X-330-1095-E	AUXILIARY POWER GROUND FLOOR CABLE RACK PLAN PART 10	0	NOTE- ALL SUBSTATIONS, VCCs, AND LCCs REMOVED
X-330-1098-E	AUXILIARY POWER GROUND FLOOR CABLE RACK PLAN PART 13	0	NOTE- ALL SUBSTATIONS, VCCs, AND LCCs REMOVED
X-330-4016-E	CONTROL & INSTRUMENTATION GROUND FLOOR PLAN PART 7	0	NOTE- ALL SUBSTATIONS, VCCs, AND LCCs REMOVED
X-330-4019-E	CONTROL & INSTRUMENTATION GROUND FLOOR PLAN PART 10	1	NOTE- ALL SUBSTATIONS, VCCs, AND LCCs REMOVED
X-330-4022-E	CONTROL & INSTRUMENTATION GROUND FLOOR PLAN PART 13	0	NOTE- ALL SUBSTATIONS, VCCs, AND LCCs REMOVED

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X-330 Material Sizing Area (MSA)

SECTION C -STATEMENT OF WORK

Revision No.: 0, Sep 02, 2025

RFP No.:

Drawing Number	Description	Revision	Exceptions to Drawings
X-330-115M	HEATING AND VENTILATING GROUND FLOOR X-329 UNIT #2	1	NOTE- FANS WITH MOTORS REMOVED
X-330-202M	AUTOMATIC CONTROLS GROUND FLOOR - SOUTH HALF	2	
X-330-3035-M	INSTRUMENT INSTALLATION PLAN DETAILS OF TYPICAL TUBE RUNS	1	
X-330-4020M	PROCESS GAS (P.G.) AUXILIARY SERVICE AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 10	0	
X-330-4020.10-M	PROCESS GAS (P.G.) AUXILIARY SERVICE AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 10		
X-330-4027M	PROCESS GAS (P.G.) AUXILIARY SERVICE AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 7		
X-330-4027.10-M	PROCESS GAS (P.G.) AUXILIARY SERVICE AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 7	0	
X-330-4028M	PROCESS GAS (P.G.) AUXILIARY SERVICE AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 8	0	
X-330-4028.10-M	PROCESS GAS (P.G.) AUXILIARY SERVICES AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29-SECTION - TYPICAL CELL NUMBER 8	0	
X-330-4029M	PROCESS GAS (P.G.) AUXILIARY SERVICE AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 9	0	
X-330-4029.10-M	PROCESS GAS (P.G.) AUXILIARY SERVICES AND COOLANT SYSTEM PIPING GROUND FLOOR PLAN X-29 SECTION - TYPICAL CELL NUMBER 9	0	
X-330-5206M	RED PCB CONTAM. VENT DUCT EXHAUST DUCT TROUGHS BLDG X-330 PIPING PLAN COLUMNS 10A THRU 19M	1	
X-330-5210M	RED PCB CONTAM. VENT DUCT EXHAUST DUCT TROUGHS BLDG X-330 PIPING PLAN COLUMNS 19A THRU 28H	1	
X-330-5214M	RED PCB CONTAM. VENT DUCT EXHAUST DUCT TROUGHS BLDG X-330 PIPING PLAN COLUMNS 28A THRU 37H	1	
X-330-7302M	PROCESS VENTILATION BUILDING X-330 OPERATING FLOOR PART PLAN	0	NOTE- ALL FANS AND MOTORS REMOVED
MECHANICAL SPRINKLER			
X-330SP 4-4600	KEY PLAN BUILDING X-330	0	
X-330SP 4-4612	BULK MAIN & RISER PLAN SYSTEMS 9, 10, 13, 14, 17, 20 & 21	0	
X-330SP 4-4614	BULK MAIN & RISER PLAN SYSTEMS 24, 25, 28, 29, 32, 35 & 36	0	
X-330SP 5-4633A	SPRINKLER PLAN SYSTEM 17 AT GROUND FLOOR	2	
X-330SP 5-4633B	SPRINKLER PLAN SYSTEM 17 AT GROUND FLOOR	2	
X-330SP 5-4634	SPRINKLER PLAN SYSTEM 17 AT ROOF	1	
X-330SP 5-4639	#393 SPRINKLER PLAN SYSTEM 20 AT GROUND FLOOR	2	
X-330SP 5-4640	#393 SPRINKLER PLAN SYSTEM 20 AT ROOF	1	
X-330SP 5-4641	#392 SPRINKLER PLAN SYSTEM 21 AT GROUND FLOOR	2	
X-330SP 5-4642	SPRINKLER PLAN SYSTEM 21 AT ROOF	1	
X-330SP 5-4647	SPRINKLER PLAN SYSTEM 24 AT GROUND FLOOR	2	
X-330SP 5-4648	SPRINKLER PLAN SYSTEM 24 AT GROUND FLOOR	1	
X-330SP 5-4649	SPRINKLER PLAN SYSTEM 25 AT GROUND FLOOR	3	
X-330SP 5-4650	SPRINKLER PLAN SYSTEM 25 AT ROOF	1	

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X-330 Material Sizing Area (MSA)

SECTION C -STATEMENT OF WORK

Revision No.: 0, Sep 02, 2025

RFP No.:

Drawing Number	Description	Revision	Exceptions to Drawings
MECHANICAL SPRINKLER			
X-330SP 5-4655	#388 SPRINKLER PLAN SYSTEM 28 AT GROUND FLOOR	1	
X-330SP 5-4656	#388 SPRINKLER PLAN SYSTEM 28 AT ROOF	1	
X-330SP 5-4657	#387 SPRINKLER PLAN SYSTEM 29 AT GROUND FLOOR	2	
X-330SP 5-4658	SPRINKLER PLAN SYSTEM 29 AT ROOF	3	
X-330SP 5-4663	#386 SPRINKLER PLAN SYSTEM 32 AT GROUND FLOOR	3	
X-330SP 5-4663-A	SPRINKLER PLAN SYSTEM 32 AT GROUND FLOOR	3	
X-330SP 5-4664	#386 SPRINKLER PLAN SYSTEM 32 AT ROOF	3	
X-330SP 5-4669	#384 SPRINKLER PLAN SYSTEM 35 AT GROUND FLOOR	5	
X-330SP 5-4671	#385 SPRINKLER PLAN SYSTEM 36 AT GROUND FLOOR	4	
X-330-7832-M	X-330 FIRE PROTECTION SPRINKLER & RISER DETAILS	0	

- 2.4.2. **References note.** The attached information is provided for reference in preparing your bid. Your consideration of this information is not intended, nor does it limit the Contractor's responsibility to verify and ascertain the conditions in accordance with clause H.68 and H.69. This information, sketches, exhibits, drawings and the site visit shall be used to quantify and determine the conditions at the project site.

3. DESCRIPTION OF WORK – SPECIFIC

- 3.1. The Material Sizing Area (MSA) will be constructed on the X-330 Operations Floor (Ground Floor). The primary MSA and BCS Areas are on the west side of the X-330 Facility within the rectangular area formed by Columns A17, A39, L17, L39. There are two new roll up doors to be installed on the east side of the Facility at Columns FF32-33 and FF33-34.
- 3.2. The Material Sizing Area (MSA) will be constructed on the West side of the X-330 Facility on the Operations Floor (Ground Floor). The MSA design is approximately 22,842 ft². The Boundary Control Station (BCS) is collocated with the MSA and sits to the north of the MSA. The BCS is approximately 12,670 ft².
- 3.3. The X-330 Facility is a Department of Energy (DOE) Hazard Category 2 Facility.
- 3.4. The X-330 Facility is a Former Uranium Enrichment Facility (FUEF).
- 3.5. Select systems and components of the X-330 Facility are categorized as Q, AQ, or AQ-NCS, Safety-Significant (SS).
- 3.6. Select systems installed as part of this Modification are AQ-NCS or Safety-Significant (SS) (e.g., air cleaning, deposit storage, etc.).
- 3.7. Fissile operations within the MSA are controlled by Nuclear Criticality Safety Evaluations (NCSEs).
- 3.8. An Un-reviewed Safety Question Determination (USQD) Screening is performed for each ESO and Sub ESO, and work packages before proceeding with all construction work and operations.
- 3.9. The X-330 Facility is covered under multiple documents that are the basis for design and operation. Any modifications to the X-330 Facility must comply with the specifications and criteria found in:
 - 3.9.1. POEF-FBP-001 - Basis for Interim (BIO) Operation of Former Uranium Enrichment Facilities (FUEF).
 - 3.9.2. POEF-FBP-024 - Documented Safety Analysis (DSA) for Decontamination and Decommissioning of the X-330, and X-333 Process Buildings Portsmouth Gaseous Diffusion Plant, PEOF-FBP-024
 - 3.9.3. POEF-FBP-025 - Technical Safety Requirements for Decontamination and Decommissioning of the X-326, X-330, and X-333 Process Buildings

- 3.9.4. Directors Final Findings and Orders (DFF&O) (Ohio Environmental Protection Agency).
- 3.10. The X-330 MSA (the Work) described in Articles 1.0 and 2.0 of this statement of work shall include, but not be limited to, the following (this listing shall also be used to develop the contract pay item schedule; see Exhibit 1).
 - 3.10.1. Pre-mobilization and Work submittals.
 - 3.10.2. Worker training (at site and by Contractor).
 - 3.10.3. Design Details & Clarifications submittals.
 - 3.10.4. Mobilization.
 - 3.10.5. MSA/BCS Area Demolition and Repair.
 - 3.10.6. Demobilization.
 - 3.10.7. Project closeout and associated documentation submittals.
- 3.11. Applicable to All Work Scope
 - 3.11.1. Contractor shall mobilize to the Work Area once they have received an "A" status on all required pre-mobilization submittals and Authorization to Mobilize has been given.
 - 3.11.2. Contractor shall coordinate all mobilization activities with the Contract Technical Representative (CTR).
 - 3.11.3. Contractor material and equipment requires inbound/outbound inspections and radiological surveys upon delivery and exit. The contractor shall notify CTR two days prior to delivery and exit. The contractor shall allow one day for radiological surveys and inspection for use and 30 days for release of materials and equipment from the site.
 - 3.11.4. The contractor shall coordinate with the CTR to establish the field office location, break area, smoke area, restroom facilities, lay down area, staging area, and other temporary facilities. Changes to the work area layout must be approved by the CTR prior to making the change.
 - 3.11.5. Contractor shall provide and install safeguards including but not limited to safety / warning signs, such as the required personal protective equipment (PPE) and "Danger Work in Progress" signage for work performed on the ground. Signage shall be placed every 25 ft. around the defined work area.

- 3.11.6. Contractors shall provide OSHA approved fall protection systems as required for the work. These systems shall be approved by the Company. The Contractor shall submit a list of any fall protection equipment required for review by the Company to assess any limitation or restrictions with placement.
- 3.11.7. Contractors shall erect barricades or barriers around defined features of each area to prevent equipment from disturbing and/or damaging items. These items include utility manholes, utility poles, utility pipe racks, storm sewer grates, among other features. The Company and Contractor shall perform a walk-down of the area prior to any Work activity to verify all structures that are accounted for and protected.
- 3.11.8. Before beginning any Work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the Work.

3.12. Demolition.

3.12.1. Filter Houses.

3.12.1.1. Filter Houses designated for demolition and removal: Filter Houses #2, #3, #4, and #19. Filter Houses #2, #3, and #4 are on the west side of the X-330 Facility. Filter House #19 is on the east side of the X-330 Facility.

3.12.1.2. Demolish and remove four (4) filter room houses to include:

- Filter housing structure and frame (estimated volume per filter house is 10,624 ft³, uncompressed).
- Filters (1328 24" L X 24" W X 3" D filters per house).
- Concrete Masonry Unit (CMU) door structure with door (two (2) doors per filter room with CMU structure total CMU volume 54 ft³).
- RCW Piping (two (2) 12" diameter pipes per filter house).
- Miscellaneous piping.
- Pneumatic motors and fan discharge damper control arms (app. 16 per filter room).
- Service air supply.
- Sprinkler pipe and sprinkler heads.
- Lights.
- Electric Cable ends (electric feed to filter room will be air gapped and removed).

3.12.2. Supply fan with motor foundations (supply fans and motors already removed).

- 3.12.2.1. There are 8 Supply fans with motor foundations to be demolished and removed.
- 3.12.2.2. The supply fan and motor foundations are comprised of reinforced concrete.
- 3.12.2.3. The supply fan dimensions are 9' L X 8' X 1' D. The supply fan volume is app. 52 ft³ each.
- 3.12.2.4. The motor foundation dimensions are 3' L X 3' X 1' D. The motor foundation volume is app. 4 ft³ each.
- 3.12.2.5. The total volume for all supply fan and motor foundations is app. 448 ft³.

3.12.3. Tunnel access stairwell.

- 3.12.3.1. There is one (1) tunnel access stairwell (Tunnel Stair #42) to be demolished and removed.
- 3.12.3.2. The tunnel access stairwell is comprised of CMU with a grout skim coat, concrete roof, and one (1) door with metal jamb.
- 3.12.3.3. The tunnel stairwell dimensions are 16.6' L₁ X 16.6' L₂ X 4.8' W₁. The tunnel stairwell volume is app. 2,314 ft³.

3.12.4. Lube Oil Tank (10,000 gallon, empty) with containment barrier (Concrete).

- 3.12.4.1. There is one (1) Lube Oil Tank (10,000 gallon, empty) with containment barrier (Concrete) to be demolished and removed.
- 3.12.4.2. The tunnel access stairwell is comprised of CMU with a grout skim coat, concrete roof, and one (1) door with metal jamb.
- 3.12.4.3. The Lube Oil Tank dimensions are 26' L X 8' Ø. The Lube Oil Tank volume is app. 1,336.8 ft³.
- 3.12.4.4. The Lube Oil Tank containment wall dimensions are 48' L X 24' W X 3' H. The Lube Oil Tank containment wall volume is app. 2,592 ft³.

3.12.5. Platforms.

- 3.12.5.1. There are (2) Platforms (Platform #8 and Platform #9) to be demolished and removed.

3.12.5.2. The Platforms are comprised of CMU structure with 6' W X 8' H sliding doors.

3.12.5.3. The Platforms are 23.5' L X 9.5' W X 10' H. The Platform volume is app. 3,016 ft³.

3.12.6. Ductwork.

3.12.6.1. There is approximately 2,837 feet of Ductwork identified for demolition and removal. The Ductwork volume is approximately 55,408 ft³.

3.12.6.2. The dimensional size of the ductwork is identified in the table below (Table 1 MSA Area Ductwork Dimensions and Volume).

X-330 MSA Area Ductwork Dimensions and Volume for Demolition and Removal				
	L (ft)	W (ft)	H (in)	Volume (ft³) (uncompressed)
Duct	6	3	85	1,275
Duct	3	2	576	3,197
Duct	2	2	638	2,125
Duct	4	3	25	300
Duct	11	5	312	17,160
Duct	4	2	272	2,176
Duct	6	6	240	7,260
Duct	14	5	227	15,289
Duct	4	2	57	396
Duct	5	3	29	321
Duct	9	3	42	893
Duct	6	2	52	676
Duct	10	2	52	1,070
Duct	3	3	27	225
Duct	3	3	45	338
Duct	4	3	88	875
Duct	9	3	20	458
Duct	6	3	20	275
Duct	3	2	9	65
Duct	9	5	23	1,035
Total Ductwork Length (ft)			2,837	
Total Ductwork Volume (ft³)				55,408

Table 2 MSA Area Ductwork Dimensions and Volume

3.12.7. Demolish and Remove eight (8) Sprinkler Riser Housings with Risers, Air Compressors, and Heaters.

3.12.7.1. The Riser Housing consist of four (4) main pieces; 1. The housing structure (building) which is prefabricated, insulated, structure 8' L X 6' W X 8' H, 2. The sprinkler Riser Assembly (some housings have two but most have one), 3. A small Air Compressor, 4. An electric heater.

3.13. MSA Area Repair and Fill.

3.13.1. During equipment demolition and removal damage occurred to the floor areas where the equipment was installed. The floor damage must be repaired lowered/raised to existing Ground Floor Elevation of 672' - 0" height. The floor area shall be free of irregularities $\pm \frac{1}{4}$ " to enable free and safe movement during segmentation operations.

3.13.2. After completion of all floor repairs the floor will be painted/coated with a water based two-part Epoxy system in a light grey color.

3.13.3. Areas requiring general floor repair:

3.13.3.1. One (1) area - Lube oil tank removal area repair.

3.13.3.2. Approximately 16 areas – Process Electrical Substation removal area repair.

3.13.3.3. Approximately 6 areas – Auxiliary Electrical Substation removal area repair.

3.13.3.4. Eight (8) areas - Supply Fan and Motor foundation removal repair.

3.13.3.5. Eight (8) areas - Valve Control Centers (VCC).

3.13.3.6. Eight (8) areas - Instrument Cubicles (LCC).

3.13.3.7. Eight (8) areas – Sprinkle Main and Riser housings.

3.13.4. Areas requiring more in-depth concrete fill or external siding installation, as well as general repair:

3.13.4.1. Platforms removal area repair and concrete fill.

3.13.4.2. LCC removal area repair filter houses repair and concrete fill.

3.13.4.3. Tunnel access hole repair and concrete fill or steel plate installation.

3.14. Architectural & Structural Construction.**3.14.1. Construct MSA and BCS Primary Walls and roofs.**

- 3.14.1.1. The MSA is comprised of a total of approximately 1,776 feet of walls. The four-segmentation station's primary walls are approximately 1,376 feet in length and extend to the height of the ceiling, 21 feet. The corridors connecting each of the four segmentation stations consist of approximately 404 feet and extend to a fabricated roof at 10 feet. The MSA corridors will have a roof fabricated from the same panel system as the walls.
- 3.14.1.2. The MSA Office consists of app. 204 feet of wall that extends to a height of ten (10) feet. The MSA Office will have a roof fabricated from the same panel system as the walls. The MSA Office has an additional feature design to enable viewing during Converter Segmentation. This additional feature is a 5' H X 8" L observation window with pass thru microphone and speaker assembly.
- 3.14.1.3. The BCS Area consists of app. 404 feet of walls that extend to a height of ten (10) feet. The BCS Office will have a roof fabricated from the same panel system as the walls.
- 3.14.1.4. All walls for MSA, BCS, and MSA Office are prefabricated 6" Wall panels with 22-gauge steel on both sides and a rock wool rigid insulation panel in between.

3.14.2. Roll Up Doors.

- 3.14.2.1. There is a total of 18 Roll up doors to be installed in the MSA and exterior of the X-330 Facility.
 - Ten (10) of these roll up doors are exterior (metal). The exterior grade roll up doors consist of 20- or 22-gauge metal slats with the dimensions of 24' W X 20' high. The motor size is 1 ½ or 2 HP. Of these ten (10) six (6) are x-330 Facility Exterior doors that will require a frame structure installation attached to primary steel facility columns.
 - Eight (8) of the roll up doors are light weight reinforced fabric with the dimensions of 24' W X 20' high. The motor size is ½ or 1 HP.

3.14.3. Doors.

- 3.14.3.1. There are a total of 46 doors required to be installed as part of the MSA and BCS construction.

3.14.3.2. There are 24 standard doors which are a traditional fire rated steel door with a steel jamb 3' W X 7' H.

3.14.3.3. There are 22 double size swinging doors that require installation and they are 7' W X 8' H. The doors are fiberglass reinforced with a steel jamb.

3.14.4. Door access platforms with stairs for access from Track Alley. Four (4) of the doors will require access platforms with stairs to enable passthrough from the Track Alley which has a height differential of approximately four (4) feet. These platforms with stairs are prefabricated and shipped in sections for installation at the construction site.

3.15. Civil Construction.

3.15.1. Civil construction consists of preparation and construction of two (2) access roads for the two (2) new rollup doors on the X-330 Facility East side, four (8) Concrete pads for the Make Up Air (MUA) Systems and two (2) concrete pads for transformers to provide the MUA Systems power, on the west side of the X-330

3.15.2. The two (2) concrete or paved access roads to the new roll up doors on the X-330 facility east side are a total of 270' L X 25' W X 6" D (125 cy³ of concrete). The access roads require excavation, grading, and construction of concrete or paved road surface (to be determined at a later date). The length of road/access area is approximately 135' L X 25' W X 6" D (62.5 cy³ of concrete) each (they are collocated and the same size).

3.15.3. On the west side of the X-330 Facility eight (8) concrete pads will be installed for the eight (8) MUA Systems totaling approximately (166 cy³ of concrete). These MUA systems have a total weight each of 25,047 lbs. These concrete pads are 60' L X 14' W X 8" H (21 cy³ of concrete) each.

3.15.4. Two (2) concrete pads will be installed in close proximity to the eight (8) HVAC concrete pads for two (2) transforms that will provide power to the HVAC systems. The two (2) transformers equal app. 3.56 cy³ of concrete. The transformers have a total weight of 15,900 lbs. each. The dimensions for these two pads are 12' L X 6' W X 8"H (1.78 cy³ of concrete) each. These transformers are fed via cable from the X-530 Switchyard via 13.8 kV overhead line on an existing pipe support rack to the X-330 Facility Area for approximately 452'. The 13.8kV line will then be run underground to its destination (two transformers) for approximately 200'.

3.16. Mechanical Construction.

- 3.16.1. Eight (8) MUA (air conditioning and air, no heat) Systems are planned for installation on the eight (8) concrete pads on the west side of the X-330 Facility. These MUA Systems have 200 tons of air conditioning each and provide 22,100 CFM resulting in 44,200 CFM provided to each MSA Segmentation Station. The MUA systems operate to provide air conditioning and make up air to each segmentation station using an intricate system of ductwork.
- 3.16.2. Eight (8) Exhaust Filtration Systems (Donaldson Torit DFE 4-48) are designed for installation into the MSA interstitial side space and interstitial space (areas on the side of the segmentation stations and in between the segmentation stations). The exhaust filtration systems operate to filter the segmentation station air each segmentation station using an intricate system of ductwork.
- 3.16.3. These Exhaust Filtration Systems provide 22,055 CFM of HEPA filtered exhaust air, resulting in 44,110 CFM being provided to each MSA Segmentation Station.
- 3.16.4. The HEPA filtered exhaust air is exhausted outside of the facility using existing bump outs that route the exhaust to the roof for final release.

X-330 MSA and BCS, HVAC, Make Up Air (MUA) Systems, and Exhaust Filtration Systems Ductwork Length and Dimensions for Installation

Duct Type	System	L (ft)	W (ft)	H (in)
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round	MUA-01			
Duct, Round				
Duct, Round				
Duct, Round				
Duct, Round				
Duct, Round				
Duct, Round				
Duct, Round				

Duct Type	System	L (ft)	W (ft)	H (in)
Duct, Round				
Duct, Round				
Duct, Round				
Duct, Round				
Duct, Round				
Total Ductwork Length (ft)				

Table 3 X-330 MSA and BCS, HVAC, Make Up Air (MUA) Systems, and Exhaust Filtration Systems Ductwork Length and Dimensions for Installation

3.17. Electrical Construction.

3.17.1. Main Distribution Line #1 – Powers 8 200 Ton Make Up Air Systems located outside of the X-330 Facility on the west side adjacent to the MSA.

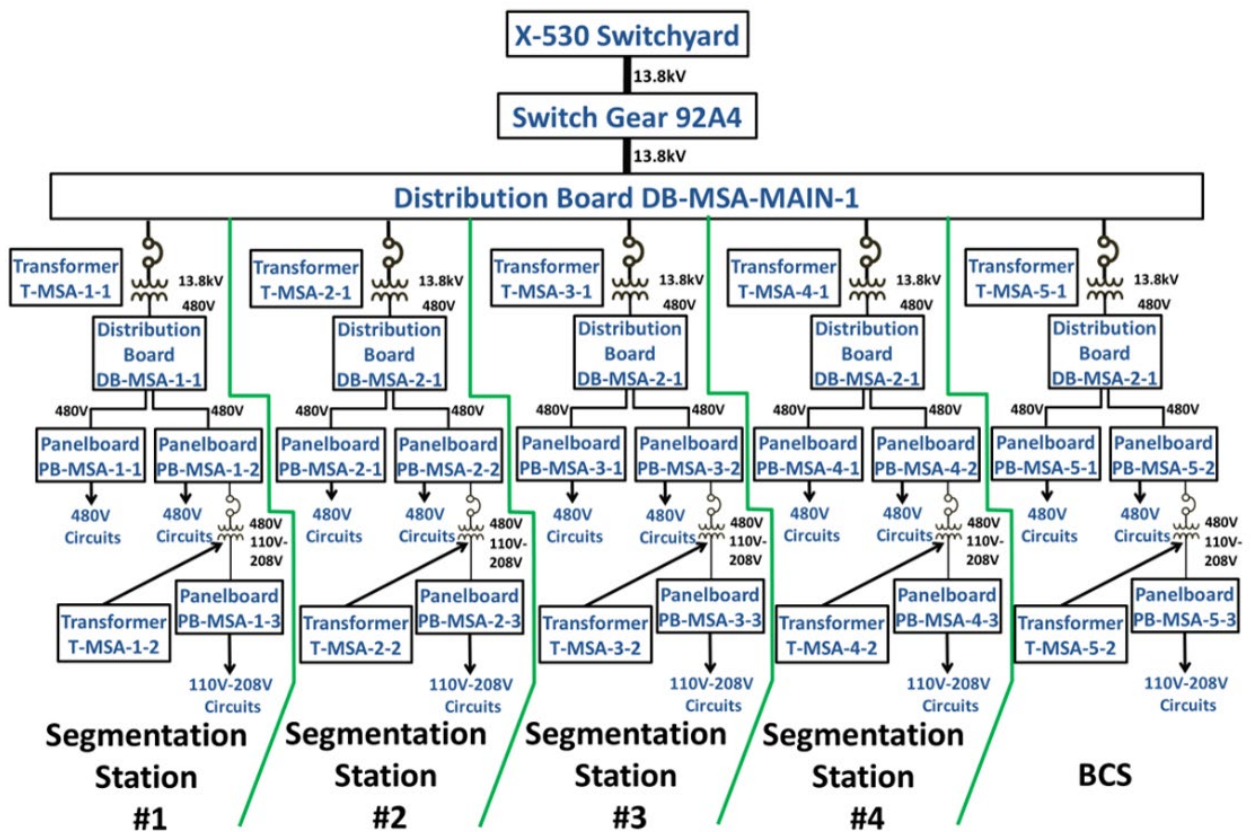
3.17.1.1. .

Graphic 1 – Overview of MSA and BCS Primary Power Distribution Scheme

Graphic 2 – Overview of Muke Up Air Systems Primary Power Distribution Scheme

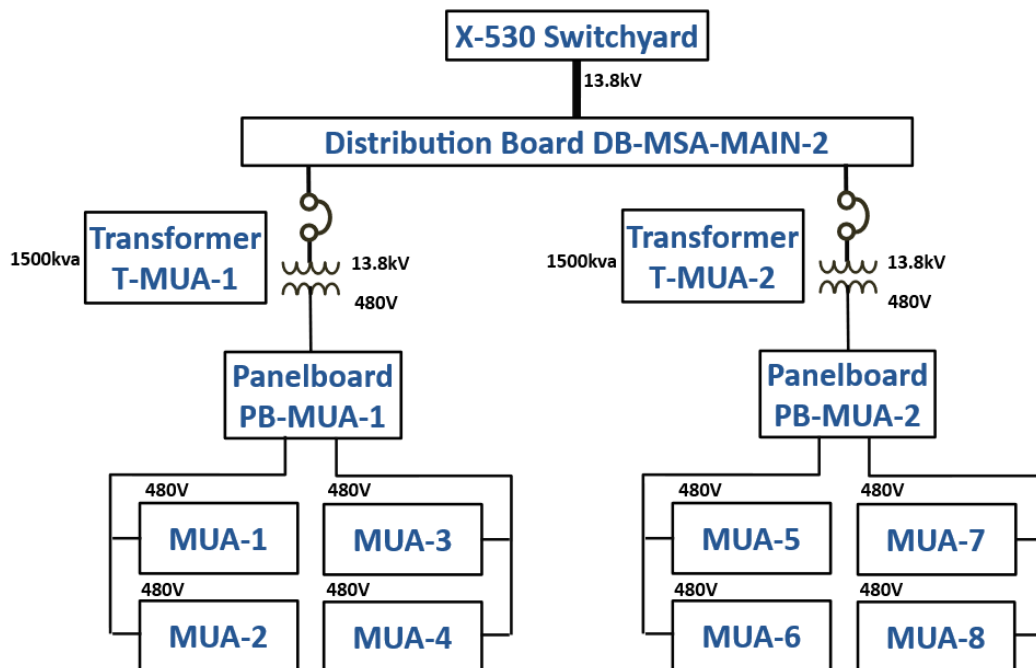
3.18. Crane Installation.

MSA/BCS Electric Power Distribution



- 3.18.1. Two (2) transformers will provide power to the HVAC systems. The dimensions for these two pads are 11' L X 10' W X 8"H each. These transformers are fed via cable from the X-530 Switchyard via 13.8 kV overhead line on an existing pipe support rack to the X-330 Facility Area for approximately 452'. The 13.8kV line will then be ran underground to its destination (two transformers) for approximately 200'. The transformers have a total weight of 15,900 lbs. each

Make Up Air Systems Electrical Power Distribution



4. MATERIAL, EQUIPMENT, OR SERVICES

- 4.1. Furnished by Company. The Company will furnish or cause to be furnished to Contractor, without cost to Contractor, the following items for or in connection with performance of the Work:
- 4.1.1. Notwithstanding the Article entitled the "Permits, Applications and Licenses" in Section H Special Contract Requirements, the Company will furnish the permits listed in Article 5.
 - 4.1.2. The Company will provide Plant radios as required.
 - 4.1.3. Radiological Personal Protective Equipment for activities within Radiological Controlled Areas.
 - 4.1.4. If the Contractor's work requires use of a respirator, the Company will provide required respirators.

- 4.1.5. The Contractor is responsible for submitting respirator requests. Respirator requests must be made on a Company provided Respirator Request Form and each request shall be delivered to the CTR before 8:00 a.m., Mondays and Wednesdays. Monday requests shall be for respirators required for each worker for Tuesday, Wednesday and Thursday. Wednesday requests shall be for respirators required for each worker for Friday, Saturday, Sunday, and Monday. Additions and or revisions to the requests shall be made, as needed, by 8:00 a.m. at least the day prior to the need. Respirator usage and return requirements are specified in Attachment J-13.
- 4.1.6. The Company will provide containers for Low-Level Waste, and transportation for on-site and off-site disposal of Low-Level Waste. Refer to the Waste Management section of this Statement of Work.
- 4.1.7. The Company will provide a construction sign (Exhibit 3) for the Contractor to place near the construction site. This sign shall contain contact information for the Company's oversight personnel.
- 4.1.8. The Company will provide material handling support to the work area including manlifts and forklifts as necessary.
- 4.1.9. Furnished by Contractor.
 - 4.1.9.1. Contractor shall provide all necessary labor, equipment and containers to receive, stage, and store materials in accordance with the instructions provided in the Contract.
 - 4.1.9.2. The Contractor shall provide Hoisting and Rigging required to lift materials, tools, equipment as necessary per the contract.
 - 4.1.9.3. The contractor shall coordinate all material, tool and equipment delivery to the jobsite in recognition of size limitations and load limits of the existing X-333 freight elevator.
 - 4.1.9.4. OSHA approved fall protection equipment as specified in Article 3.2.5.

5. TEMPORARY FACILITIES AND UTILITIES

- 5.1. The Company will supply or cause to be supplied with the following temporary facilities and utilities to Contractor, without cost to Contractor, for or in connection with performance of the Work:
- 5.2. Parking areas for the Contractor's Work vehicles will be limited to a location near the Work area. Parking along plant site roads and streets shall not be permitted. Unless otherwise directed by the CTR, parking for the Contractor and subcontractor employees shall be limited to the parking lot outside the security fence parking facilities.

- 5.2.1. Limited roughly graded space adjacent to the Work Area for temporary facilities and storage of material and equipment. (No storage facilities or protective coverings of any kind will be furnished by the Company.)
- 5.2.2. The Company shall supply Sanitary and Change Facilities for radiological work if required for the project. The contractor shall coordinate with the CTR for the location of Sanitary and Change Facilities.
- 5.2.3. Smoking Areas. The company will designate smoking areas.
 - 5.2.3.1. Contractor personnel will only be permitted to smoke at designated smoking areas as directed by the CTR.
 - 5.2.3.2. Meeting the requirements for establishing and maintaining the smoking area shall be the sole responsibility of the Contractor.
 - 5.2.3.3. No smoking shall be allowed outside of the designated smoking area.
 - 5.2.3.4. The Contractor shall provide an appropriate fire extinguisher.
 - 5.2.3.5. The smoking area shall be designated with a non-flammable barricade.
 - 5.2.3.6. Containers for extinguishing and disposal of cigarette butts shall be utilized.
 - 5.2.3.7. Contractors shall provide and maintain safe walking access to the smoking area.
 - 5.2.3.8. Contractor shall provide a waste disposal container for debris other than cigarette butts.
 - 5.2.3.9. Contractors shall follow good housekeeping practices.
- 5.2.4. The Contractor will not be required to obtain security clearances for the performance of this work. Security escorts will be provided by FBP, per an approved security plan.
- 5.3. Furnished by Contractor.
 - 5.3.1. Except as expressly set forth in Article 5.1 of this Statement of Work, the supply, installation, provision, maintenance, repair, and final removal of all temporary facilities and utilities, necessary for full and complete performance of the Work, is the sole responsibility of the Contractor.

- 5.3.2. Such items shall include, but not necessarily be limited to those listed below. Contractor has the sole responsibility to identify and provide all required temporary facilities and utilities to perform the Work. The type of facilities, move-in and move-out dates, and locations on the work Site shall be subject to and in accordance with the review and approval of CTR.
- 5.3.3. Temporary Facilities and Lay-down Area.
 - 5.3.3.1. Contractor trailers must be secured or anchored to prevent movement or turnover from high winds. Trailer anchoring shall meet OBBC & DOE-STD-1088-95. Preferred Anchor system is a Minuteman LLBS system with drive pins as determined in length per project condition. Contractor may choose to anchor the trailer by using 10 foot long Jersey Barriers with ½" galvanized wire rope tie downs in accordance with the spacing table 1 in 24 CFR 3285.402.
 - 5.3.3.2. Trailer manufacturer shall provide anchor calculations to ensure overturning, lateral movement is in compliance with anchor system specified or for any alternative anchor systems. Electrical connections must be made by a qualified electrician. The Company reserves the right to inspect and approve the Contractor's office installation.
 - 5.3.3.3. Upon demobilization, the land previously occupied by Contractor's Temporary Facilities and Lay-down area shall be returned to its pre-construction condition or better. This requirement shall also apply to all Temporary Roads, and Parking, Lay-down areas and Temporary Utilities. ODOT #57 gravel shall be used as fill where needed.
- 5.3.4. Eating Facilities. The Company shall provide designated break and lunch areas for the contractor's employees, vendors and subcontractors.
- 5.3.5. Storage Facilities. The Contractor shall provide adequate weather-tight storage for materials, tools, and equipment, which are subject to damage by weather. The location of storage compounds must be agreed with CTR before storage of materials commences. Such compounds shall be maintained for the storage of the approved materials and for no other purpose.
- 5.3.6. Construction Power / Temporary Facility Area Power.

- 5.3.6.1. Contractor shall provide temporary power (generator) to provide electric for temporary facilities including Contractor's Project Trailer, temporary lighting, and tools and equipment to complete the work (note special restriction in section 3.2.10C). Electrical connections to Contractor trailers, temporary facilities or other electrical systems or equipment must be completed in accordance with the requirements of Attachment J-13. Contractor shall not be permitted to occupy trailers or temporary facilities prior to inspection and approval by the Company.
- 5.3.6.2. Onsite generation of power is allowed providing that such power is obtained through the use of properly installed, acoustically insulated electric generating units as approved by the CTR.
- 5.3.6.3. Contractor's distribution system, lighting systems and wiring shall be installed in accordance with the National Fire Protection Association (NFPA) and the National Electric Code (NEC) and maintained in satisfactory condition. All distribution lighting systems and wiring shall be inspected by an FBWXT Qualified Electrical Inspector.
- 5.3.6.4. No weight shall be imposed upon any electric cable and no staging, ladder or similar equipment shall rest against or be attached to it. Temporary power cables in use by Contractor must be positioned so that they do not cause a tripping hazard. (Run 8-ft overhead or laid neatly out of walkways.)
- 5.3.6.5. The contractor shall be responsible for maintaining and removing any equipment or devices installed.
- 5.3.6.6. Before the Contractor plugs in any electrical appliance to any plug socket belonging to the Company it shall ensure that the appliance is in good condition and is fitted with a suitable cable, including a fully rated and insulated neutral conductor and protective ground conductor.
- 5.3.6.7. Water Disposal and Dewatering. The contractor shall be responsible for the safe and proper disposal of water that accumulates in the work area from rain or Work activities to locations as approved by the CTR.
- 5.3.7. Temporary Buildings. Contractor shall provide, operate, maintain, and dispose of all temporary buildings in accordance with the requirements of the Contract.
- 5.3.8. Fuels and Lubricants.

- 5.3.8.1. Oils, greases, and similar materials must be stored in nonflammable bins or buildings or in a fenced compound remote from other combustible materials in accordance with NFPA and as approved by CTR.
- 5.3.8.2. "No smoking": signs shall be provided by Contractor and prominently displayed in areas where flammable materials are stored. Additionally, Contractor shall provide and maintain suitable fire extinguisher in such areas.
- 5.3.8.3. Contractors shall provide all fuel for heating and ventilation for their Temporary Facilities.
- 5.3.8.4. Fossil Fueled Vehicle Limitations in Buildings: This limitation is applicable to, but not limited to, automobiles, trucks, tractors, forklifts, high-lifts, other cylinder handling equipment, and personnel carriers. Fossil fuels include, but are not limited to gasoline, diesel, or ethanol. The size of a fuel tank on each individual fossil fueled vehicle is limited to 50 gallons of fossil fuel. The use of propane for vehicle fuel is prohibited. The X-333 building is restricted to use of electricity only.
- 5.3.8.5. Stationary fuel powered equipment (e.g. generators, pumps, light plants, etc.) with a fuel capacity equal to or greater than 55 gallons of fuel must be equipped with a double walled fuel tank. If a double wall fuel tank is not available, then the stationary fuel powered equipment must be placed in an acceptable secondary containment device as approved by HSE and the CTR. If an existing secondary containment area is not available, then it is the Contractor's sole responsibility to provide an acceptable secondary containment device. The secondary containment device must be sized to hold the equivalent of the largest tank volume within that containment.
- 5.3.8.6. For equipment requiring secondary containment that will be stored outdoors, the containment area must provide accumulated precipitation, and as such, be sized to 120% of the largest tank volume within that containment. The secondary containment material(s) of construction shall be impervious to and compatible with the liquid to be contained. Any spills within the dike or outside the dike shall be reported immediately to CTR. Provisions shall be made for draining off accumulations of water.
- 5.3.8.7. The Contractor shall ensure that any drain valves remain closed except when draining. The stationary fuel powered equipment and all secondary containment areas must be inspected and maintained daily. The Contractor shall ensure documentation of these inspections is recorded daily, and that the inspection log is available for the Company for inspection upon request.

- 5.3.9. Communication. Contractor shall provide and operate all means of communication required for performance of the Work except for plant radios as identified in section 4.1.2. All other items may include but not be limited to telephones (non-camera cell phones), and facsimiles. Wireless communication systems shall be approved by CTR prior to bringing the system on-site. Cameras are not permitted on site.
- 5.3.10. Temporary Roads and Parking
- 5.3.10.1. Contractors shall comply with load restrictions in all buildings and all roads and bridges.
- 5.3.10.2. Maintenance of Traffic: The Contractor shall provide flagmen, safety cones, barricades, signage, etc., as necessary to maintain safe traffic flow on plant streets. Street closure or reduction from two-lane traffic to one-lane traffic shall be minimized. Contractor shall use their employees for flagman to control traffic within areas under Contractor control. Contractors shall coordinate traffic control with the CTR if traffic control is required outside of project boundaries. Signage shall be based on international signage standards and conventions.
- 5.3.10.3. The Contractor shall, furnish, erect, and maintain during the progress of Work activities, substantial barricade, bridging, ramps, sidewalks, cones, barrels, guard rails, and signage; furnish, place and maintain adequate lights and warning signals, provide flagmen and watchmen.
- 5.3.10.4. No Plant streets or roadways shall be barricaded without coordination with the CTR. Requests for street closures shall be submitted to the CTR for approval at least three (3) days in advance.
- 5.3.10.5. Contractor area barriers shall have a designated entrance location(s); each location shall have a sign identifying the project name, contract number, Contractor, Contractor contact and phone number and CTR contact and phone number to notify for entry.
- 5.3.10.6. Barricades, temporary bridging, and other temporary construction installed by the Contractor shall be removed by the Contractor upon completion of work requiring such safeguards.
- 5.3.11. Equipment Inspections. Contractor vehicles, equipment, materials, trailers, toolboxes and tools shall be subject to inspection as described in Attachment J-13.
- 5.3.12. Material Handling and Rigging.

- 5.3.12.1. Construction activities, material deliveries, and off-loading operations shall be conducted to minimize interruptions to the Company's normal operations. Blockage of Company gates or other access to the work area shall not be permitted without prior coordination and approval of the CTR.
- 5.3.12.2. Contractors shall provide and operate cranes and other necessary equipment for handling, hauling, unloading, receiving, and lifting Contractor-supplied materials, tools, and equipment at the job site and to each work area (the Company will provide equipment for material handling within the X-333 building space only). Operators, Riggers, and Signalmen must provide training certification to Company for approval prior to mobilization and/or use of equipment
- 5.3.13. The Contractor is responsible for providing the means and methods to protect the work area and building before and during periods of inclement weather.
- 5.3.14. Small tools [10 CFR 851.23 and 10 CFR 851.24].
- 5.3.14.1. All tools are used and maintained according to the manufacturer's instruction and applicable OSHA standards (OSHA 1910 Subpart B and 1926 Subpart I). Manufacturer recommendations for inspection criteria (frequency, substance, documentation) are only considered as guidance and are not mandatory.
- 5.3.14.2. Bladed Tool Use
- Use only self-retracting blade utility knives
 - Spare blades are not to be carried in coverall pockets
 - A sharps container must be provided for blade disposal
 - Personal or unauthorized knives are not to be used at the PORTS site
- 5.3.15. Electric Power Tools and Equipment.
- 5.3.15.1. All electric power tools and equipment shall be protected with a Ground Fault Circuit Interceptor (GFCI). The GFCI must be plugged in at the power source and shall be inspected and tested daily or prior to use.

- 5.3.15.2. Power tool cords and extension cords must be kept in good condition and out of the way of traffic. Electrical cords shall be routed safely to prevent a tripping hazard and damage to the cord. Faulty or damaged cords must be properly disposed of or removed from site. Faulty or damaged cords on electrical hand tools must be or removed from site.
- 5.3.16. Supplemental Lighting. The Contractor shall provide adequate lighting and comply, at a minimum, with OSHA lighting and illumination requirements.
- 5.3.17. Permits. Job Site Work Permits: All permits required for performance of the Work at the jobsite will be arranged by the Company. The Company will provide the following permits as required: Contractor shall request the permit a minimum of five (5) working days in advance of the permit need.
 - 5.3.17.1. Excavation
 - 5.3.17.2. Penetration
 - 5.3.17.3. Welding / Hot Work
 - 5.3.17.4. Lockout / Tagout (LOTO)
 - 5.3.17.5. Radiological Work Permit (RWP)
- 5.3.18. Temporary Fencing/work boundary. Contractors shall provide temporary fencing/boundary to secure work areas, temporary facilities, materials, and equipment storage areas as directed by the Company.
- 5.3.19. Transportation. Contractors shall provide transportation amenities on and off-site. Only Contractor's company vehicles, as approved by CTR, will be allowed on-site.
- 5.4. Environmental Protection.
 - 5.4.1. Vehicles, equipment, or liquid storage containers shall not be stored in areas where spillage or leakage of materials would enter the plant's drainage system. The Contractor shall immediately notify the CTR of any spills, regardless of the quantity, type, or location. Spill response and cleanup will be performed under the direction of the Company. Cost associated with spills resulting from negligence by the Contractor shall be the sole responsibility of the Contractor.
 - 5.4.2. All products or hazardous materials brought on-site by the Contractor shall be maintained under the control of the Contractor. No excess products or hazardous materials are to remain onsite after the project is complete. Contractor shall submit Safety Data Sheets (SDS) or Material Safety Data Sheets (MSDS) for review and approval prior to bringing such items on-site in accordance with Attachment J-13.

- 5.4.3. All paints, protective coatings, mastics, adhesives, solvents, degreasers, or any other chemical compound or mixture having components that are classified as hazardous by definition:
- 5.4.4. Hazardous chemical: Any chemical which is classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified.
- 5.4.5. The Contractor will be permitted to wash equipment at PORTS if it can be done in accordance with applicable Federal and State regulations and as approved by the Company. Disposal of accumulated debris from washing activities shall be governed by the Waste Management section of this document.
- 5.4.6. Environmental Emissions Consideration:
 - 5.4.6.1. All fuel-burning equipment such as but not limited to cranes, bulldozers, earthmovers, welders, generators, compressors, pumps, and light plants must meet regulatory permit requirements. Unless a piece of equipment is specifically exempted under the regulations, it must have an air permit. Off-road diesel-powered vehicles and equipment (both mobile and stationary), with engine horsepower (hp) ratings of 50 hp or more shall be a minimum of Tier 2 compliant. Any regulatory exceptions must be reviewed by the Company prior to equipment use. The Contractor shall provide documentation of compliance with applicable regulatory permits and standards to the CTR prior to delivery of equipment to PORTS.
 - 5.4.6.2. Fuel Requirements: To the extent practicable, construction equipment with engine hp ratings of 50 hp or more shall utilize Ultra-Low Sulfur Diesel (ULSD) fuel.
 - 5.4.6.3. Permit Exemption: The Contractor shall maintain logs for any piece of equipment exempted from permitting based on hours of operation (e.g.: emergency generators, emergency compressors, and emergency pumps) to document fuel use and to verify that the equipment was not operated in excess of 500 hours annually. The Contractor shall provide to the Company prior to delivery of equipment to PORTS documentation of equipment operating logs for any regulatory exempt piece of equipment.
- 5.4.7. Fugitive Dust Emissions:
 - 5.4.7.1. The Contractor shall minimize emissions of fugitive dust by methods such as spraying, misting, or watering materials likely to become airborne.

5.4.7.2. The Company may perform air monitoring to confirm the effectiveness of the Contractor dust suppression.

5.5. Excavation/Penetration.

5.5.1. A Penetration Permit is required when breaching or penetrating any building surface more than 1-1/2" (unless excluded), any blacktop or concrete pavement surface more than three (3) inches, or the earth's surface more than twelve (12) inches by any means other than those considered excavation or trenching. These methods include, but are not limited to, auguring, drilling, driving, and coring, or penetrating. Penetrations include drilling wells and boring for soil samples up to and including 12 inches in diameter.

5.5.2. If during the execution of the Work, the Contractor encounters hidden utilities or other structures or interferences not identified previously, the Contractor shall stop work and immediately advise the Company and confirm findings in writing. Company will evaluate findings and direct Contractor to resume work following investigation. The Contractor shall record location, including elevations of hidden utilities or other structures or interferences.

5.6. Existing Utilities/Service Interruption. Where Work involves breaking into or connecting to existing services or utilities, carry out work at times as directed by the Company.

5.7. Engineering Evaluations supporting Hazard Analysis.

5.7.1. The company shall provide Arc Flash Engineering Evaluations as needed in support of applicable hazard analysis for Contractor LOTO permits.

5.7.2. The company shall provide a Roof Structural Integrity Assessment in support of any applicable work requiring roof access.

6. PERFORMANCE SCHEDULE AND SEQUENCE OF WORK

6.1. Specific milestones, interfaces, and other schedule related bases of this Contract are as set forth in Exhibit 1.

6.2. General scheduling, reporting and coordination requirements shall be described in Section H, Special Contract Requirements. The contractor shall submit the detailed schedule required by Section H Special Contract Requirements in accordance with Attachments J-6 and J-8.

6.3. Contractor Project Schedule shall be a resource loaded Critical Path Method (CPM) Schedule that clearly identifies both, all logical relationships/dependencies between activities related to the project, and the project's projected critical path schedule from Notice to Proceed through project completion. This resource-loaded Critical Path Method (CPM) Schedule shall have the following two levels:

6.4. The first level, Pay Item level (Pay Item Layout).

- 6.5. The second level, the Activity Level (Detailed Layout).
- 6.6. Activities will roll up to support the Pay Items.
- 6.7. The initial Contractor Project Schedule, once approved by the Company, will be known as the Contractor Baseline Schedule (may include approved modifications). This Schedule will be used for comparison with subsequent project schedules. The project schedule shall include the following:
 - 6.7.1. Actual or projected start and finish dates.
 - 6.7.2. Activity progress and remaining duration.
 - 6.7.3. Bar chart schedule comparing the current schedule to the baseline schedule.
 - 6.7.4. Revisions to craft resources.
 - 6.7.5. Specific to estimated schedules in man hours.
 - 6.7.6. Percent complete for each activity (summarized/listed in the Pay Item section of the Contractor Project Schedule and shall be the basis for the amount invoiced for that Pay Item).
 - 6.7.7. A copy of the updated Contractor Project Schedule shall be submitted to the Company by the date established in the contract.
- 6.8. The Contractor shall submit a Four-Week Rolling Schedule (refer to Attachment J-30) which documents/lists four weeks of the Project Detailed Activity Layout, which shall include the following:
 - 6.8.1. A schedule of the previous week, the present week, and the two future weeks.
 - 6.8.2. Activities grouped by Pay Item activities and sorted by Early Start Dates.
 - 6.8.3. Activities schedule coded with corresponding Pay Item ID code.
 - 6.8.4. Expected/Projected Man-hours by craft (carpenters, laborers, operators, etc.) for each activity.
 - 6.8.5. Pay Item values breakdown of activities.
 - 6.8.6. The Four-Week Rolling Schedule shall be presented to the Company at the Weekly Progress Meeting.
- 6.9. Contractor Scheduling Software.
 - 1.1.1 The Contractor may use the following software, which is compatible with the Company Scheduling Software (Primavera P6) to prepare the required project schedules:

FLUOR BWXT PORTSMOUTH LLC

X-330 Material Sizing Area (MSA)

SECTION C -STATEMENT OF WORK

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Primavera P3

Primavera Subcontractor

Microsoft Project

If using electronic scheduling software, then an electronic file containing the updated project schedule shall be submitted along with the hard copy of the updated schedule.

6.10. Work Hours, Deliveries and Overtime.

- 6.10.1. Standard project work hours will be four days per week, 10 hours per day, (Monday through Thursday) between the hours of 7:00 a.m. and 5:30 p.m. Contractor shall be prepared to work the hours required by Contract. The Contractor may request in writing earlier start times to account for weather conditions (i.e. excessive heat). The requested work schedule must be within contractual guidelines for all entities involved.
- 6.10.2. Material and equipment deliveries shall be permitted Monday through Thursday, e.g. 7:00 AM-5:30 PM Eastern Time. Deliveries must be coordinated with the CTR at least one (1) working day in advance. Deliveries outside of these times must be coordinated with the CTR at least two (2) working days in advance.
- 6.10.3. Requests for scheduled overtime, weekend, or holiday work during normal situations shall be made to CTR at least two working days before the start of these shifts.
- 6.10.4. Requests for non-scheduled extended work hours in emergency situations shall be made to the CTR at least three hours in advance for overtime during the normal work week and at least by noon of the last regular workday.
- 6.10.5. For work being performed outside the normal work schedule the Contractor shall coordinate with the CTR for any special arrangements for security, safety, escorting, health physics, and other the Company provided resources. Plant entry and exit requirements may change when working outside of the normal work schedule. It is the Contractor's sole responsibility to coordinate with the CTR to plan accordingly for personnel, deliveries, and all other requirements needed to perform work during non-normal scheduled work times.

7. REPORTING REQUIREMENTS AND COORDINATION MEETINGS

- 7.1. The contractor shall promptly submit schedules and reports set forth in Attachment J-8 Contractor / Supplier Submittal Register.
- 7.2. Daily Reports
- 7.3. Contractor shall make written Daily Reports (Attachment "J-5", Contractor Daily Report) to the CTR by 10:00 am each morning for the preceding day.
- 7.4. Weekly Progress Meetings
 - 7.4.1. The Contractor shall attend weekly progress meetings. Contractor shall submit a written report showing contractor safety, schedule progress versus actual progress including details of the work completed in relation to the approved schedule, and a two (2) week "look ahead" schedule which provides details of how the work is to be completed.

- 7.4.2. The person or persons designated by the Contractor to attend the meetings shall have the required authority to make decisions and commit the Contractor to solutions agreed upon during these meetings.
- 7.5. Monthly Reports, Schedules and Schedule updates. Shall be in form and format approved by Company. These reports shall be submitted under cover of a letter in accordance with Attachment J-6.
- 7.6. Other Meetings. Contractor participation in certain additional activities shall also be required. These activities shall include, but not be limited to:
- 7.7. Meetings / briefings as described in Attachment J-13.

8. CORRESPONDENCE, SUBMITTALS AND COMMUNICATION REQUIREMENTS

- 8.1. Correspondence, submittals and communication with the Contractor shall be in accordance with Attachment J-6.
- 8.2. When required by the Contract, Contractor shall transmit to Company, technical submittals, shop drawings or samples, including supporting catalog cuts, manufacturer's literature, sketches or drawings, calculations and other pertinent data, in sufficient detail to enable Company to review the information and determine that Contractor clearly understands the requirements of the Contract. Documents shall be transmitted to the Company under cover of formal contract correspondence utilizing Attachment J-6 Contractor/Supplier Cover Sheet. The contractor shall provide submittals listed on Attachment J-8 (Contractor / Supplier Submittal Register) as part of the Statement of Work.
- 8.3. Contractor shall submit all engineering data, samples, and shop drawings (herein called "data") listed on "Attachment J- 8 (Contractor / Supplier Submittal Register)" for review in accordance with Attachment "J-6".
 - 8.3.1. Refer to the Attachment J-8, (Review Period Column) for the Company required review period of data submitted by the Contractor.
 - 8.3.2. Each submittal of Contractor's data shall be signed by Contractor and accompanied by a letter of transmittal containing the date of submittal, Contract Number, and all pertinent information required for identifying and checking submittals.
 - 8.3.3. One (1) reproducible and two (2) prints shall be submitted for each drawing and any other documents larger than 11" x 17".
 - 8.3.4. Two (2) prints shall be submitted for documents which are 11" x 17" and smaller, and documents such as procedures and calculations shall be 8 1/2" x 11" size.

- 8.4. Although Work may proceed on receipt of data with a Code "B" notation, Contractor must incorporate the changes indicated, resubmit for final approval Code "A" before release of materials or equipment for shipment can be approved by Company. Returned copies of data with Code "B" and "C" shall be resubmitted not later than ten days after the date of transmittal by Contractor of such copies of such data.
- 8.5. For Contracts that include new construction, the Contractor shall furnish to Company reproducible drawings revised by Contractor to show "as-built" information.
- 8.5.1. Contractor's revisions shall show details of those locations where the Work performed by Contractor was at variance with the details shown on the drawings (either furnished by Company or furnished by Contractor and reviewed by Company).
- 8.5.2. Contractor's submittal to Company of such "As-Built" drawings shall be made on a continuous basis as the Work proceeds, but in all cases prior to the date of Notice of Acceptance. For the purposes of Contractor's inclusion of "As-Built" information,
- 8.5.3. Company will provide Contractor with an electronic version of Company furnished drawings.
- 8.5.4. All final drawings shall be AutoCAD "DWG" format, 2010 to 2016 release
- 8.6. Company reserves the right to review certified material test reports for all materials of construction at any time during field erection. Contractor shall maintain these documents readily available for such review and shall submit all documents to Company on the completion of the Work.
- 8.7. The contractor shall maintain at the jobsite up-to-date copies of all drawings, specifications, and other documents and supplementary data, complete with the latest revisions thereto. In addition, Contractor shall maintain a continuous record of all field changes, and at the conclusion of the Work, shall incorporate all such changes on the "As Built" drawings and other engineering data and shall submit the required number of copies (in AutoCAD and PDF format) thereof to Company.
- 8.8. The contractor shows the Company Contract Number and identifying item numbers, if applicable, on all data submitted pursuant to this Article 8.0.

9. CLEAN-UP, SAFETY, WORK RULES, AND REGULATIONS

- 9.1. The contractor shall perform the work in a safe manner and keep the work site in clean condition in accordance with Attachment J-13, Environmental Health & Safety Requirements for On-site Work and shall comply with all work rules and regulations.

- 9.2. The Contractor shall submit their Corporate Safety Plan to the Company for review in accordance with Attachment J-8. The Contractor shall adopt and follow the Company's Environmental Health & Safety Requirements (Attachment J-13), as the Project Safety Plan. The Contractor shall designate the individual(s) responsible for on-site implementation of the plan, specify qualifications for those individuals, and provide a list of those project activities for which subsequent hazard analyses are to be performed.
- 9.3. For Fire Protection Requirements refer to Attachment J-29.

10. WASTE MANAGEMENT

- 10.1. The Contractor shall demolish, size reduce, and load debris and waste generated from the Work into appropriate containers. Debris and waste generated during this project shall be segregated and containerized as: MATERIAL: DEBRI, WASTE TYPE: LOW LEVEL WASTE, CONTAINER TYPE: INTERMODAL.
- 10.2. The Contractor shall not collect or store debris. When debris piles are necessary for the Work the Contractor shall maintain the piles. This includes minimizing the volume and hazards associated with the material.
- 10.3. Debris/Waste Container Supply and Management.
- 10.4. Low-Level Waste Containers.
- 10.4.1. The Company will provide intermodal container(s) (25 cy) for use by the Contractor to load waste. The Company will stage the empty intermodal container(s) in the Laydown, and Staging Area prior to the removal of low-level waste.
- 10.4.2. The Company will prepare and deliver the intermodal containers for loading by the Contractor with the appropriate liners, dunnage, and shoring installed. The Contractor shall ensure materials are loaded in such a way that the container is not damaged during loading or transport. A Company waste package certifier shall be present during all LLW loading operations to ensure prohibited items are not added to the containers and will seal the container after it is closed. The Company will remove and install intermodal container lids. The Contractor shall be responsible for damage to Company provided intermodal containers that is a result of loading LLW.
- 10.4.3. The Company will manage the intermodal containers. Management of the intermodal containers includes the movement of empty and full containers to and from the work area, and placement of the containers as required for loading LLW by the Contractor. The Contractor shall not manage, handle or transport intermodal containers.
- 10.4.4. Each loaded intermodal container shall not exceed 17,500 pounds gross weight.

- 10.5. Container Transport. The Company shall provide transportation for LLW waste containers on-site and off-site.
- 10.6. Labeling of Waste and Containers. The Company will be responsible for labeling and marking sanitary/industrial waste containers and LLW Containers.
- 10.7. Contractor Generated Waste.
 - 10.7.1. The Contractor shall ensure all packaging materials and/or scrap material (e.g. dunnage, protective wrap, etc.) brought to PORTS by the Contractor shall be taken off-site and disposed of by the Contractor to minimize the amount of waste generated at the work site.
 - 10.7.2. Wastes generated by the Contractor shall be monitored by the Company prior to off-site removal. If contamination is found greater than release limits, the Contractor must contact the CTR for further guidance on disposition.
- 1.2 Debris Characteristics/Handling Requirements.
 - 10.7.3. Low-level Waste
 - 10.7.4. Low-level waste will include debris within the Radiological Control Area and secondary waste such as PPE, material or equipment used during Work activities.
 - 10.7.5. LLW shall be size reduced to less than eight feet in length and two feet wide.
 - 10.7.6. Placement of LLW into intermodal containers shall be performed under the oversight of the Company.

11. SECURITY

- 11.1. For Security requirements while working on the PORTS Site the Contractor shall refer to Attachment J-15, Specification 01546 PORTS FBP Site Security Requirements as well as Security protocol ISS-17-003.

12. QUALITY ASSURANCE

- 12.1. Contractor shall be responsible for the performance of all quality assurance program criteria specified in Attachment J-16 Quality Assurance Requirements. The Contractor shall submit a Quality Assurance Program Plan and supporting Inspection Procedures required to perform the Work in accordance with Attachment J-8.
- 12.2. Contractor quality document(s) submittals shall be approved by the Company prior to activities affecting quality start. The Company may audit the Contractor's quality program prior to initiating work.

- 12.3. The Contractor shall provide record copies of all reports, personnel rosters and test and inspection results, where applicable.

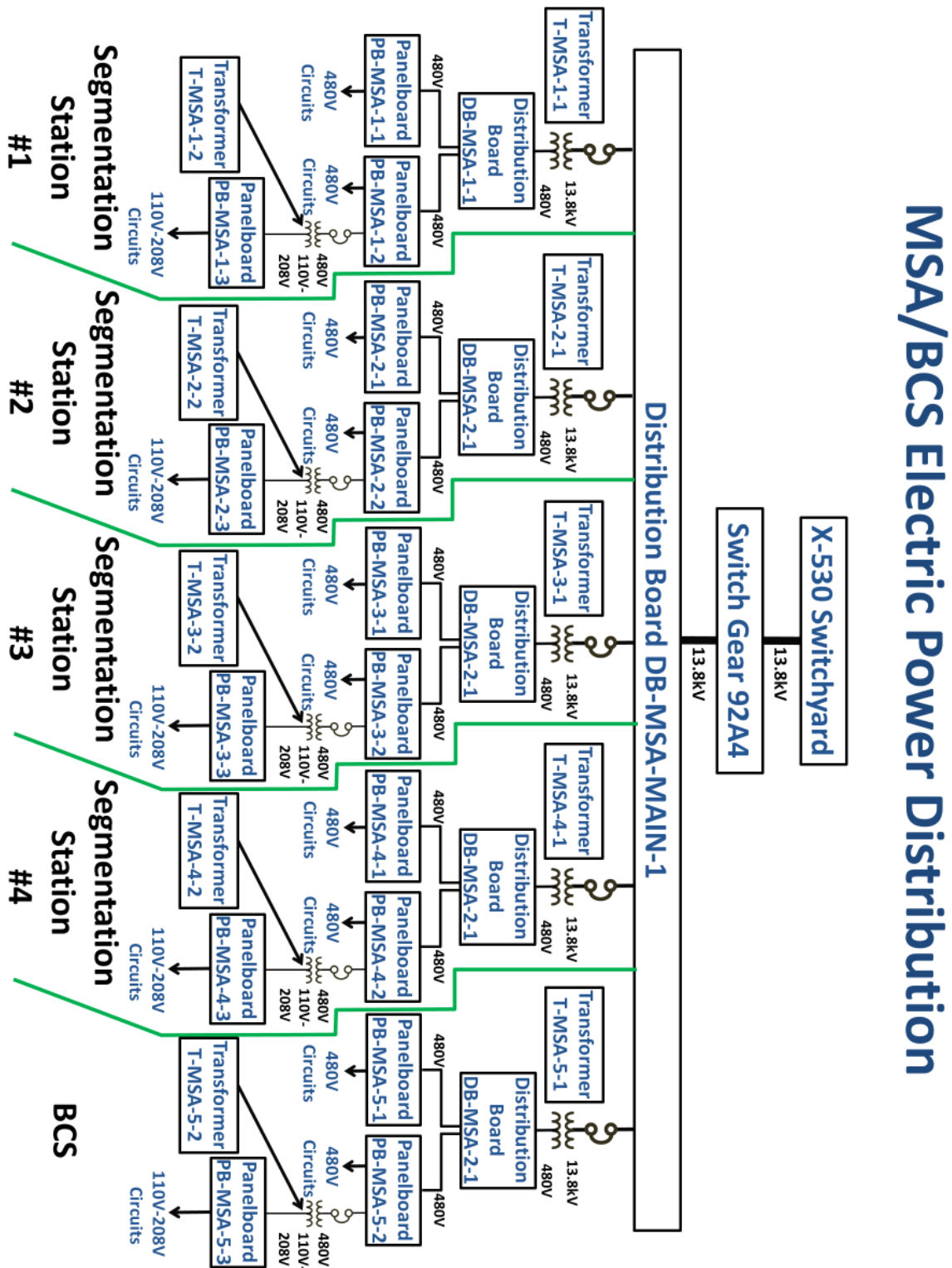
13. CONSTRUCTION

- 13.1. Contractor shall perform the Work in accordance with this Statement of Work all contractual inquiries should be addressed to the Contract Administrator and Technical inquiries addressed to the CTR in accordance with Attachment J-6.
- 13.2. Acceptance of Contract:
- 13.2.1. In Conjunction with Contract Clause H.54 the Contractor shall coordinate a final acceptance walk down of the work with the CTR and others as required to verify completion of the Work and identified discrepancies. Discrepancies will be documented on a punch list and shall be resolved by the Contractor prior to acceptance. Completion of the Punch List must be executed within the Contractor's project schedule for work completion and not extend beyond the approved project schedule.
- 13.2.2. The Company shall verify and document that all deliverables, including the Performance Verification Testing submittals of the test reports, has been received and that all requirements have been satisfied. Any nonconformance shall be just cause for rejection of the service provided and delayed payment until the supplier complies with the SOW.

EXHIBIT 1 – SCHEDULE SUMMARY

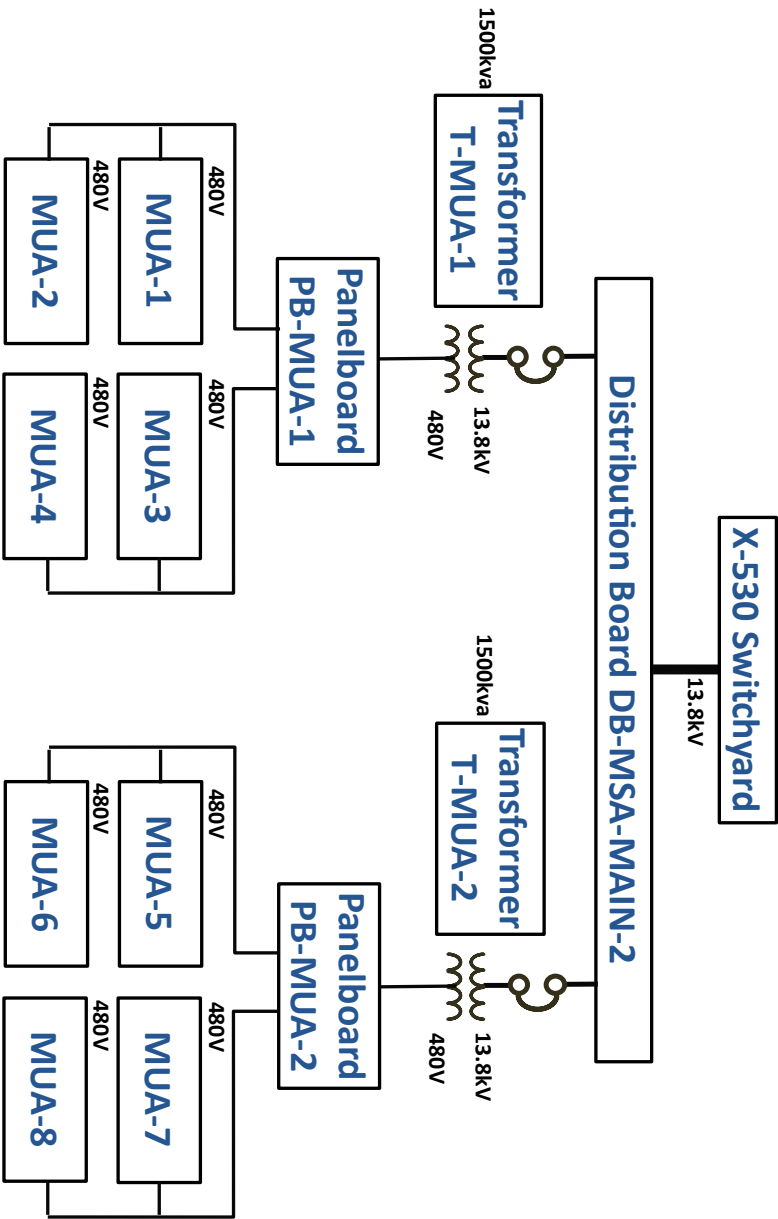
Schedule Summary		
Item	Schedule Activities	Duration (Calendar Days)
1	Notice to Proceed (NTP).	-
2	Pre-Mobilization Submittals and Training.	30 Days after NTP
3	Mobilization.	45 Days after NTP
4	Demolition and Repair (phase 1)	150 Days after NTP
5	Demobilization.	180 Days after NTP
6	Project Close Out.	210 Days after NTP

EXHIBIT 2 – OVERVIEW GRAPHICS



Graphic 1 – Overview of Material Sizing Area and Boundary Control Station Electric Power Distribution.

Make Up Air Systems Electrical Power Distribution



Graphic 2 – Overview of Make Up Air Systems Electric Power Distribution.

EXHIBIT 3 – ACRONYMS

ACM	Asbestos Containing Material
BOP	Balance of Plant
CPM	Critical Path Method
CTR	Contract Technical Representative
D & D	Decontamination and Decommissioning
DOE	Department of Energy
ESH & Q	Environmental Safety Health and Quality
FBP	Fluor – B&W Portsmouth
FMSCR	Federal Motor Carrier Safety Regulations
GFCI	Ground Fault Circuit Interrupter
GVWR	Gross Vehicle Weight Rating
HEPA	High Efficiency Particulate Air
HSE	Health Safety Environmental
KW	Kilowatt
LLBS	Longitudinal and Lateral Bracing System
LLW	Low-Level Waste
LOTO	Lock Out Tag Out
MSA	Material Sizing Area
NEC	National Electric Code
NFPA	National Fire Protection Association
OBBC	Ohio Basic Building Code
ODOT	Ohio Department of Transportation
OSHA	Occupational Safety and Health Administration
PAPR	Powered Air Purifying Respirator
PORTS	Portsmouth Gaseous Diffusion Plant
PPE	Personal Protection Equipment
PUCO	Public Utilities Corporation of Ohio
RWP	Radiological Work Permit
SHWP	Safety & Health Work Permit
SOW	Statement of Work
SWPPC	Storm Water Pollution Prevention Controls