

Department of Energy

Washington, DC 20585 December 23, 2024

Via email: <u>Quadri.Syed@epa.gov</u>

Mr. Syed Quadri, PMP, Remedial Project Manager U.S. Environmental Protection Agency Remedial Response Section # 7 77 West Jackson Blvd, Mail Code SR-6J Chicago, IL 60604-3507

Via email: <u>Scott.Glum@epa.ohio.gov</u>

Mr. Scott Glum, Site Coordinator Ohio Environmental Protection Agency Division of Environmental Response and Revitalization Southwest District Office 401 East 5th Street Dayton, OH 45402-2911

Subject: Transmittal of the Building 300 and Pump and Treatment System Removal Closeout Report for the Mound, Ohio, Site

Dear Mr. Quadri and Mr. Glum:

This letter transmits the *Building 300 and Pump and Treatment System Removal Closeout Report for the Mound, Ohio, Site* located in Miamisburg, Ohio for your information and awareness.

Following the procedure agreed to in the Mound 2000 process, this closeout report is provided as information only to the Core Team members and will be posted to the Mound Administrative Record after it has been submitted. The Mound Administrative Record can be found at the following link:

https://lmpublicsearch.lm.doe.gov/SitePages/CERCLA.aspx?sitename=Mound

Thank you for your time reviewing the attached document for your awareness. Please contact me at (636) 485-0036 or <u>Tiffany.drake@lm.doe.gov</u>, if you have any questions.

Sincerely,

TIFFANY DRAKE Digitally signed by TIFFANY DRAKE Date: 2024.12.23 08:58:54 -05'00'

Tiffany Drake Mound Site Manager

Enclosures

cc w/enclosures via email: Cliff Carpenter, DOE-LM Bud Sokolovich, DOE-LM Polly Robinson, DOE-LM Katherine Chester, DOE-LM Elizabeth Holland, DOE-LM Kate Whysner, DOE-LM Miquette Gerber, RSI Gregory Lupton, RSI Rebecca Cato, RSI Jodi Keller, RSI Ann Wei, RSI Terrence Maloney, RSI ELEM/19/593



This document has been designed for online viewing.

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Abbreviations

- DOE U.S. Department of Energy
- LM Office of Legacy Management
- OU-1 Operable Unit 1
- P&T pump-and-treatment

1.0 Introduction

This is the final report documenting the completion of the demolition of Building 300 and the removal of the pump-and-treatment (P&T) system components that were located in the Operable Unit (OU)-1 and Parcel 9 area at the U.S. Department of Energy (DOE) Mound, Ohio, Site.

Appendix A contains all of the related figures, including Figure 1, Figure 2, and Figure 3, that are aerials showing the Mound site boundary, location of the OU-1 and Parcel 9 area, and details of the Building 300 system within the Mound site. It also contains photos taken before and after the demolition. Appendix B contains the demolition plan, and Appendix C contains the public notice and verification of closure form.

2.0 Background

DOE's Office of Legacy Management (LM) removed Building 300 and the P&T system components in preparation for the transfer of the OU-1 and Parcel 9 area property. This equipment was no longer required because of a change in the OU-1 groundwater remedy that is cited in the *Amendment to the Record of Decision for Operable Unit 1 of the Mound Site, Miamisburg, Ohio* (DOE 2023).

Details about the building and operational history are in the *Data Package for Building 300 and the Operable Unit 1 (OU-1) Pump-and-Treatment System at the Mound, Ohio, Site* (DOE 2024a), hereafter called the Building Data Package (BDP).

3.0 Actions Taken

The demolition was conducted as construction demolition according to the Mound 2000 Process.

The BDP and the *Mound, Ohio Pump And Treat Building 300 Demolition* (DOE 2024b), hereafter called the Building Demolition Plan, was reviewed by the Core Team—which includes LM, the U.S. Environmental Protection Agency, and the Ohio Environmental Protection Agency—and made available for public review. LM published a public notice (Appendix C) on June 8, 9, and 10, 2024, in the *Dayton Daily News* advising that the BDP and the Building Demolition Plan for removal of Building 300 and the P&T system were available on the public webpage for a 30-day public review period. There were no public comments received during the 30-day review period.

This Closeout Report documents the completion of the removal of all components described in the BDP.

All preparation and demolition activities were performed in accordance with the detailed Building Demolition Plan (Appendix B) to perform safe shutdown of utilities, maintain site access control, and perform demolition and debris removal. The building demolition project was completed as a construction demolition on August 14, 2024, as confirmed in the *Notice of Final Completion* form (LMS 2607 CON) in Appendix C.

The building, contents, concrete pad, and associated underground piping and outfall effluent line described in the BDP (DOE 2024a) were removed. Before and after photos are shown in Figure 4, Figure 5, and Figure 6 in Appendix A. Photos of the effluent line capping and partial removal are shown in Figure 7, Figure 8, Figure 9, and Figure 10 in Appendix A.

Table 1 through Table 4 provide the details of the materials disposition, cost, and personnel for the demolition.

Material	Quantity	Method	Location
Concrete pad and footers	30 cubic yards	Recycled	Carter & Carter Inc.
Construction debris (metal, rebar)	6840 pounds	Recycled	Cohen Recycling
Construction debris (PVC piping, IBC totes, miscellaneous construction debris)	1500 pounds	Landfilled	Dearborn County, Indiana

Table 1. Materials Disposition

Abbreviation:

IBC = intermediate bulk container

3.1 Problems Encountered

Building 300 was successfully demolished in accordance with the Building Demolition Plan (DOE 2024b), with no variances reported.

3.2 Resources Committed

Table 2 and Table 3 list personnel from the organizations overseeing the demolition. Table 4 provides a summary of the total cost.

Agency	Contact	Description of Participation
U.S. Environmental Protection Agency Region 5 (SR-6J)	Syad Quadri	Federal agency responsible for Mound site oversight
77 W. Jackson Boulevard Chicago, IL 60604-3507	Email: Quadri.Syed@epa.gov	
Ohio Environmental Protection Agency Southwest District Office	Scott Glum	State agency responsible for Mound site oversight
401 E. Fifth Street Dayton, OH 45402-2911	Email: Scott.Glum@epa.ohio.gov	
U.S. Department of Energy Office of Legacy Management	Tiffany Drake	DOE LM Mound site manager
7295 Highway 94 South St. Charles, MO 63304	Email: Tiffany.Drake@lm.doe.gov	responsible for project oversight

Table 2. DOE and Regulatory	Oversight Personnel
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Parties Involved	Contact or Organization	Description of Participation
RSI EnTech Contractor to the U.S. Department of Energy Office of Legacy Management 2597 Legacy Way Grand Junction, CO 81503	Engineering Department Mel Madrill, Sr. Engineer Justin Miniard, Demo Project Lead	LMS Prime Contractor Planned and oversaw the demolition
McCool Enterprises Lawrenceburg, IN 47025	Don McCool	Demolition Subcontractor

Table 4. Total Cost

Summary Activity	Cost
Legacy Management Support Contractor	
Demolition Contractor	
Total Cost	

4.0 References

DOE (U.S. Department of Energy), 2023. *Amendment to the Record of Decision for Operable Unit 1 of the Mound Site, Miamisburg, Ohio*, LMS/MND/S29546, Office of Legacy Management, September.

DOE (U.S. Department of Energy), 2024a. *Data Package for Building 300 and the Operable Unit 1 (OU-1) Pump-and-Treatment System*, LMS/MND/S47091, Office of Legacy Management, May.

DOE (U.S. Department of Energy), 2024b. *Mound, Ohio Pump And Treat Building 300 Demolition,* LMS/MND/47438, Office of Legacy Management, September.

Appendix A

Figures and Photographs of the Mound Site, Building 300 Area, Building 300, and P&T Demolition

Appendix A Figures

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Figure 8	OU-1 P&T Effluent Line After It Was Cut and Capped. The Section of the Line to Building 300 Was Removed.
Figure 9	Capped Effluent Line Form for Concrete Thrust Block

Figure 10 Effluent Line Concrete Thrust Block



Figure 1. Mound Site



Figure 2. OU-1 Parcel 9 Area Within the Mound Site



Figure 3. Layout Plan of Demolition of Building 300 and P&T System Within the OU-1 and Parcel 9 Area



Figure 4. Building 300 Area Before Demolition



Figure 5. Building 300 Area During Demolition and Removal



Figure 6. Building 300 Area After Removal Was Completed





Figure 7. OU-1 P&T Effluent Line Before It Was Cut, Capped, and Removed. This is Labeled as the Outfall Line in the Layout Plan in Figure 3.

Figure 8. OU-1 P&T Effluent Line After It Was Cut and Capped. The Section of the Line to Building 300 Was Removed.



Figure 10. Effluent Line Concrete Thrust Block

Figure 9. Capped Effluent Line Form for Concrete Thrust Block

Appendix B

Building Demolition Plan



LMS/MND/47438

Mound, Ohio Pump And Treat Building 300 Demolition Record Specifications

September 2024



Work performed under DOE contract number 89303020DLM000001 for the U.S. Department of Energy Office of Legacy Management.

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2597 Legacy Way Grand Junction, CO 81503

www.rsienv.com

Effective Date: May 8, 2024 Prepared by: Mel Madril

Task Specific Scope Statement

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- Attachment C EG&G Mound Applied Technologies OU-1 Remedial Action, As-Built, April 1997
- Attachment D Environment Survey Report, Rainbow Environmental Services, March 2024

1.0 **INTRODUCTION/BACKGROUND**

This contract is issued for the performance of *Demolition Services* in support of RSI EnTech LLC (RSI) work scope for the period August 2024. RSI is a prime contractor to the Department of Energy (DOE) and all work on this statement of work will be performed in accordance with the Basic Ordering Agreement for General Construction Manpower and Equipment Services. Fernald Preserve, Hamilton and Butler Counties, Ohio, Statement of Work (BOA-SOW), January 2017, Document No. LMS/FER/S15583.

1.1 Background

Building 300 was constructed in 1997 for the remediation of volatile organic compounds (VOCs) in groundwater in Operable Unit 1 (OU-1) at the Mound, Ohio, Site in Miamisburg, Ohio. When the 1995 OU-1 Record of Decision (ROD) was signed, it called for the collection and treatment of contaminated groundwater and the disposal of treated water to prevent the VOCs in OU-1 groundwater from being captured by the Mound Plant production wells or future wells. A pump-and-treatment (P&T) system consisting of three extraction wells and an air stripper began operation in 1997.

This operation of the P&T system continued until 2015 when regulators allowed the system to be placed in standby mode while a multivear field demonstration was being performed. The Mound OU-1 Enhanced Attenuation (EA) Field Demonstration Edible Oils Injection Project was performed to evaluate EA as an alternative remedy to treat VOCs in groundwater.

Based on the favorable results of the OU-1 EA Field Demonstration, an amendment to the 1995 ROD that modifies the treatment of groundwater to EA has been approved by the U.S. Environmental Protection Agency and Ohio EPA. The modification of the remedy allows for the decommissioning and dismantlement of the OU-1 P&T system. This includes removal of the extraction wells, air stripper, Building 300, and all associated piping and infrastructure. Any and all regulatory authorizations or permits associated with the operation of the P&T system and discharge of treated water to the Great Miami River shall be closed out.

2.0 **DESCRIPTION OF WORK – GENERAL**

Work under this task specific scope statement (TSSS) shall be performed in accordance with the BOA-SOW. Additionally, the subcontractor shall provide all labor, tools, equipment, materials, transportation, services, and incidentals as described in this TSSS with attached specifications and construction plans. Materials shall be installed per manufacturer's

specifications/instructions, and professional organization's requirements and recommendations.

3.0 DESCRIPTION OF WORK – SPECIFIC

The work scope for this activity includes the resources, material and/or equipment necessary to accomplish the following activities.

3.1 Task Description

The work includes, but is not limited to:

- A. The subcontractor shall mobilize to the site and, when work is complete, demobilize from the site.
- B. Demolition and disposal of:
 - 1) Building 300 including contents and foundation
 - 2) Air stripper effluent line
 - 3) Two extraction well's discharge piping and electrical power lines
- C. The subcontractor shall delineate the disturbance limits and install erosion controls as designated in the construction plans and as needed during demolition activities. No disturbance shall be made outside of the disturbance limits as shown on the plans.
- D. The subcontractor shall backfill, grade and revegetate.
- E. The subcontractor will dispose of any trash generated.
- F. The subcontractor shall leave the area in a neat and tidy condition. The disturbance limits shall be restored to the maximum extent practicable by matching the surrounding area.
- G. The subcontractor shall avoid disturbing existing vegetation and remaining facilities.

3.2 Acceptance Criteria

Work products and services provided shall meet all applicable RSI procedures for control and review of work products and pertinent regulatory requirements, as required by this subcontract and incorporated provisions.

Further specific Acceptance Criteria applicable to this scope includes final inspection and acceptance of the project work as specified in Attachment B, Section 01100: Special Project Procedures, Article 3.3.

3.3 Work Performed by Others

Not included for this project.

3.4 Buyer Furnished Materials and Equipment

Subcontractor shall be responsible to furnish all materials and equipment.

3.5 Site Conditions and Known Hazards

The site conditions and/or known hazards are identified in Attachment D, Environmental Survey Report

4.0 TECHNICAL REQUIREMENTS

Subcontractor will perform in accordance with the terms and conditions of this subcontract, RSI internal policies and procedures, and quality assurance provisions, including safety programs, laws, orders, permits, rules, confidentiality of information and intellectual property safeguards.

4.1 Work Location / Access Requirements

Work location, refer to Attachment – A, Sht. 1.

Access Requirements, refer to BOA-SOW, Article 4.7.

5.0 PERSONNEL REQUIREMENTS

5.1 Training and Qualification

- A. Task specific or unique training or qualifications required for this task are identified in Section 01020.
- B. The subcontractor is expected to provide appropriately trained and qualified staff to perform the type of work associated with their skill of craft at the Site.
- C. Contractor will provide subcontractor staff task or facility specific training as required for site and facility access and safe performance of assigned tasks.
- D. Testing requirements for personnel who will be working in substance Testing Designated Positions.
- **5.2** Site Access and Work Hours
 - A. Work will be done on a 4 day 10 hour schedule. The standard workday shall consist of 10 hours of work between 6:30 AM and 5:00 PM, with one-half hour designated as an unpaid period for lunch. No work occurs on the non-working Fridays. If schedule alternative is required subcontract technical representative STR will communicate to subcontractor's contact.

6.0 ENVIRONMENTAL, SAFETY, HEALTH, AND QUALITY REQUIREMENTS

The subcontractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The subcontractor shall comply with, and assist Contractor in complying with Environmental, Safety, Health, and Quality (ESH&Q) requirements of all applicable laws, regulations and directives.

6.1 Safety and Health

See requirements stated in Attachment-B, Section 01020: Safety and Health

6.2 Environmental Compliance

See requirements stated in Attachment-B, Section 01200: Environmental Compliance

7.0 MEETINGS AND SUBMITTALS

7.1 Meetings

See requirements stated in Attachment-B, Section 01100: Special Project Procedures

7.2 Submittals

Submittals shall be in accordance with Attachment-B, Section 01300: Submittals.

End of TSSS

Attachment A

Demolition Plans (attached separately) This page intentionally left blank

Attachment B

Demolition Specifications

Section 01020: Safety and Health Section 01100: Special Project Procedures Section 01200: Environmental Compliance Section 01300: Submittals Section 01500: Construction Facilities and Temporary Controls Section 02050: Demolition and Debris Removal Section 02200: Earthwork: Excavation, Backfill, and Disposal Section 02225: Excavations Over Utilities Section 02920: Revegetation This page intentionally left blank

Safety and Health Requirements Guide for Statements of Work (SOW)

Title of SOW: *Mound, Ohio, Pump and Treat Building 300* Demolition (47438) This page intentionally left blank

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Attachments and Exhibits

Attachment 1	Blank Subcontractor's Job Safety Analysis (JSA) (for subcontractor use only)
Attachment 2	Examples of Subcontractor Time Tracking Monthly Reports (LMS 2146a/b)
Attachment 3	Examples of OSHA Competent Person Designation (For Specialized Work
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Attachment 4	Example of LMS Hazardous Chemical Inventory (LMS 1067)
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Attachment 7	Example of 10 CFR 851, Fit for Duty Evaluation (Employee/Subcontractor)
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	(LMS 2038)
Exhibit 1 J	ob Safety and Health Poster

Exhibit 2 COVID-19 Health Screening for Site or Facility Access

Part 1 General

1.1 Scope

This section describes project safety and health requirements. Work must be conducted in accordance with safety regulations issued by the U.S. Department of Energy (DOE), the Occupational Safety and Health Administration (OSHA), these subcontractor documents, and state and local agencies.

1.2 Worker Safety and Health Program

Subcontractors are subject to the provisions of DOE's Worker Safety and Health Program (WSHP) as required by Title 10 *Code of Federal Regulations* Section 851 (10 CFR 851). A WSHP is a means to comply with the requirements of 10 CFR 851 to protect workers, the public, and the environment. The subcontractor and its lower-tier contractors must implement the WSHP for work performed at DOE Office of Legacy Management (LM) sites. Failure to follow the WSHP may result in a penalty to the subcontractor, lower-tier contractor, or an individual.

Provisions of the WSHP relevant to the scope of work are communicated to the subcontractor through the Legacy Management Support (LMS) contractor's:

- Work control process.
- Required training.
- Preconstruction conference.
- Initial site briefing.
- Job safety analysis (JSA) development and implementation.
- Daily safety meetings.

The intent of this safety and health requirements guide is to ensure that subcontractors understand the work scope, work sequence, associated hazards, hazard controls, safety equipment, and safety program plan procedures and review examples of associated forms that may be required to be returned. Subcontractors will have an opportunity to question, comment on, and expand on hazard analyses and controls during the preconstruction conference, initial site briefing, JSA briefing, daily safety meetings, and informal contact with the contractor. A copy of DOE's WSHP, including its implementation requirements and penalty provisions, is at: https://www.energy.gov/gc/10-cfr-851-worker-safety-and-health-program.

1.3 Integrated Safety Management

DOE and the LMS contractor are committed to systematically integrating environment, safety, and health management into all facets of work planning, practices, and execution at all levels. The LMS contractor will define and coordinate safety and health requirements for site activities. The subcontractor may work under its own safety and health program if its program is accepted after review by the LMS contractor's Safety and Health (S&H) representative and determines it meets or exceeds the requirements of the contractor's own safety and health plan as identified by 10 CFR 851 and any additional regulatory requirements defined by work scope or other regulatory agency.

1.3.1 Safety Collaboration Meeting Requirements

The contractor defines the scope of work for the subcontractor to complete through the statement of work (SOW). In alignment with the LMS contractor's WSHP and Integrated Safety Management, the subcontractor will develop a JSA based upon the defined scope and the intended approach by the subcontractor to complete the work (see Attachment 1 for a blank JSA template for subcontractor use).

The subcontractor shall submit a JSA to the contractor a minimum of <u>*1 week*</u> before mobilization.

This hazard analysis process is outlined in the OSHA document titled *Job Hazard Analysis* (OSHA 3071). To facilitate the subcontractor in meeting safety and health requirements, a safety collaboration meeting will be scheduled upon receipt of the Notice of Award. The safety collaboration meeting must be an interactive discussion between the project lead, S&H staff, and work participants regarding the work scope, the subcontractor's approach to complete the work scope, hazards associated with the approach, and controls that will be implemented to eliminate or control these hazards.

1.4 Submittals

Submittals must be made as required on the Project Submittal List, Table 01300-1 in Section 1300: Submittals, or SOW Table 1. *If there are additional requirements not listed, as defined under the SOW, please see those requirements in the "Other" section below if applicable.*

Items below are applicable to the SOW or marked as not applicable (N/A).

Note: Submittals must be made for any proposed substitutions. Any substitutions must be reviewed through S&H or Industrial Hygiene (IH), as applicable. All proposed substitutions must be submitted to contractsubmittals@lm.doe.gov for approval.

A. Submit the subcontractor's safety and health program or safety plan (SP) for review to the contractor's S&H representative supporting the project for approval, as described in Section 1.3, "Integrated Safety Management." The subcontractor's SP must meet the applicable requirements as defined in Section 1.2, "Worker Safety and Health Program," in accordance with 10 CFR 851.

Applicable ✓ N/A □

Note: Review and acceptance under the Safety and Health Review of Potential Subcontractor LMS 1980 and LMS 2079 Instructions (*LMS/PRO/S25325*) will have already been completed at the request for proposal step <u>within 1 week of award notice</u>. If needed, refer to this summary of 10 CFR 851 available at https://www.energy.gov/gc/10-cfr-851-worker-safety-and-health-program. B. The **final**, **signed**, **and approved subcontractor JSA** must be completed <u>1 week</u> prior to mobilization.

Applicable ✓ N/A □

C. Submit the following *two* subcontractor time tracking monthly report forms to the contract administrator (CA) in accordance with Section 2.4:

Applicable ✓ N/A □

- *Subcontractor Onsite Time Tracking Upon-Award Submittal* form (LMS 2146a) must be submitted within *1 week* of award notice (see example in Attachment 2).
- Subcontractor Onsite Time Tracking Monthly Report (LMS 2146b) (see example in Attachment 2) will be an ongoing monthly submittal for hours worked inclusive of all personnel conducting work for or by the subcontractor (lower tiers). If the work is shorter in duration (less than 1 month), this form should be submitted with total hours worked at the end of the project (no later than the end of the month).
- D. Submit applicable training records to document personnel proficiency to perform tasks and operate equipment supplied under this subcontract, in accordance with Section 2.7, <u>1 week</u> before mobilization.

Applicable ✓ N/A □

Note: <u>Personnel must not start work without</u> the appropriate records or review, or both, for required training.

Note: Should personnel change, or be added, while completing this contract, this information will be resubmitted through the submittal process to contractsubmittals@lm.doe.gov, then to the contractor's S&H subject matter expert for review and updated to the revision number noted. This should occur before the new or additional personnel start work.

E. Submit the OSHA Competent Person Designation (For Specialized Work Scope) (LMS 2615a) before the subcontractor performs work in accordance with Section 2.7.

Applicable ✓ N/A □

— The following activities require a competent person: asbestos or lead abatement, silicagenerating tasks, crane or derrick use, excavations, fall protection, hoisting and rigging, or scaffolding. *Below, list the same information that is provided on the* OSHA Competent Person Designation (For Specialized Work Scope) *form (LMS 2615a).*

Specific hazard: ______ Name of competent person: F. Submit the OSHA Competent Person Designation form (LMS 2615b) before work starts. If there is more than one designee, submit the appropriate form, such as the OSHA Competent Person Designation (For Specialized Work Scope) or both (see examples in Attachment 3).

Applicable ✓ N/A □

G. Submit first aid and CPR training evidence for personnel (minimum of at least one person who is trained and present) when working onsite, in accordance with Section 2.7. This must occur *1 week* before mobilization. Training and certification should meet the standard defined under the American Heart Association (AHA) for first aid and CPR, at a minimum, and be considered in current status from when the certification card was issued.

Applicable ✓ N/A □

H. Submit a completed *LMS Hazardous Chemical Inventory* form (LMS 1067) for the initially known inventory. <u>Section 2 of that form will be resubmitted</u> as an additional submittal for review of any new additions or changes to the quantity for the previously provided inventory (see example in Attachment 4). Section 2 of that form will be emailed to contractsubmittals@lm.doe.gov after it has been filled out. It will be returned with the copies of the Safety Data Sheets (SDSs) identified, in accordance with Section 2.12(C) before materials are brought onsite. This submittal will be reviewed by the LMS contractor's IH representative.

Applicable ✓ N/A □

I. Submit documentation on personnel proficiency for fall protection, scaffolding, and aerial lift training in accordance with Sections 2.7 and 2.10 *1 week* before work starts and include a description of training received on letterhead to be included in the file (e.g., aerial lift training provided by the manufacturer or vendor).

Applicable ✓ N/A □

J. Submit crane and derrick operator certification in accordance with Section 2.10(B) <u>*1 week*</u> before the lift.

Applicable □ N/A ✓

K. Submit documentation that lifting equipment has been inspected by a competent person in accordance with Sections 2.7(E) and 2.10(B) *1 week* before the lift.

Applicable □ N/A ✓

— Submit the hoisting and rigging *Lift Plan* form (LMS 1987). The subcontractor must prepare and submit a lift plan or, if needed, may use the LMS contractor's *Lift Plan* form (see example in Attachment 5), in accordance with Section 2.10(B), *1 week* before the lift. (*This should be completed before the lift-work start and review process.*)

L. Submit the list of lower-tier subcontractors (expected *to work onsite*) in accordance with this section <u>1 week</u> before mobilization.

Applicable □ N/A ✓

The list must be updated as lower-tier subcontractors are expected, are identified, or change.

Note: **Subcontractor** will submit the list of lower-tier subcontractors who will be delivering items that require sign-off/acceptance or inspection/review, or both, by the contractor (e.g., vault delivery, heavy equipment delivery).

All applicable submittals apply to lower-tier subcontractors (those working onsite) and will be flowed down as defined under mandatory flow down clauses by the subcontractor and provided to contractsubmittals@lm.doe.gov. This includes appropriate OSHA and experience modification rates (EMR) documents as defined by the Safety and Health Worksheet (LMS 2079) and Safety and Health Review of Potential Subcontractor (LMS 1980) (see examples in Attachment 6). An explanation of no EMR is required for those with fewer than 10 employees, according to the LMS contractor's process identified under the Safety and Health Review of Potential Subcontractor LMS 1980 and LMS 2079 Instructions 1 week before the lower-tier subcontractor starts work.

M. Submit copies of electrical programs, procedures, and electrical SPs being worked to contractsubmittals@lm.doe.gov. Also include appropriate documents that verify training, both academic and hands-on, with hours that meet the standard(s) of a qualified or licensed (state applicable) electrician or electrical worker in an industrial setting. Any apprentice working under a qualified or licensed electrician while being supervised must also meet criteria defined by the authority having jurisdiction (AHJ), and trained in accordance with 29 CFR 1910.332 and National Fire Protection Association (NFPA) Standard 70E (or the most current edition) and will have any required arc flash personal protective equipment (PPE), in accordance with Section 2.7(E), *1 week* before electrical work starts.

Applicable □ N/A ✓

N. Submit copies of appropriate documents defined in Section 2.10 under "Radioactive sources and radiation-generating devices" for review and approval by the LMS contractor's radiological control manager (RCM).

Applicable □ N/A ✓

O. Other (according to SOW):
1.5 Specifications, Codes, and Standards

The publications listed below are referred to in the text by the basic designations only. Under "Other Specifications, Codes, and Standards," add any additional publications that may apply:

Code of Federal Regulations

"Occupational Radiation Protection Program"	10 CFR 835
"Worker Safety and Health Program"	10 CFR 851
"Occupational Safety and Health Standards" https://www.osha.gov/sites/default/files/publications/osha3071.pdf	29 CFR 1910
"Safety and Health Regulations for Construction"	29 CFR 1926

American National Standards Institute (ANSI)/International Safety Equipment Association (ISEA)

ANSI/ISEA Z308.1-2021	Minimum Requirements for Workplace First Aid Kits and Supplies
ANSI/ISEA Z87.1-2020	American National Standard for Occupational and Educational Personal Eye and Face Protection Devices
ANSI/ISEA Z89.1-2014	American National Standard for Industrial Head Protection

ASTM International (ASTM)

ASTM F2412-18a	Standard Test Methods for Foot Protection
ASTM F2413-18	Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear

National Fire Protection Association

NFPA 70, 2017 edition

NFPA 70E, 2021 edition

Standard for Electrical Safety in the Workplace

DOE

Outline of DOE's 10 CFR 851 WSHP: https://www.energy.gov/gc/10-cfr-851-worker-safety-and-health-program

National Electric Code

OSHA

OSHA's Job Hazard Analysis Workbook: https://www.osha.gov/sites/default/files/publications/osha3071.pdf

OSHA's Safety and Health Regulations for Construction: Scaffolds; General Requirements: https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.451

OSHA's Safety and Health Standards for Hazardous Materials; General Description and Discussion of PPE Levels: https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.120AppB

Other Specifications, Codes, and Standards:



Part 2 Execution

2.1 Worker Rights and Responsibilities

Workers are responsible for identifying safety concerns, potential hazards, or unsafe conditions and reporting these issues to management. Each worker has the right, responsibility, and authority to report unsafe or environmentally unsound conditions or practices and pause or stop work activities without fear of reprisal to prevent injuries or accidents. The LMS contractor will post or make available, or both, a copy of the *Job Safety and Health* poster (Exhibit 1), which outlines worker rights.

2.2 OSHA and DOE Compliance

The subcontractor and lower-tier subcontractors must comply with applicable requirements identified under 10 CFR 835 and 10 CFR 851, as required by DOE, and 29 CFR 1910 and 29 CFR 1926, as required by OSHA. The subcontractor must perform work safely and in accordance with the requirements of the LMS contractor's safety and health program or they must provide their own safety and health program for review to ensure equivalency with DOE and OSHA requirements. The subcontractor must also comply with controls identified in any associated JSAs, permits, and procedures as applicable and required for the project, site, or facility that work is being conducted on or for.

2.3 Lower-Tier Subcontractors

The subcontractor must notify their LMS contractor's subcontract technical representative (STR) STR/CA of any lower-tier subcontractors working onsite or suppliers delivering to or from the site. The subcontractor must ensure that lower-tier subcontractor documents contain applicable safety and health flow-down requirements, including fit-for-duty (FFD) evaluations, and that requirements are enforced.

Information to be provided for review by S&H for those who will be working onsite include the last 3 years of the OSHA 300, OSHA 300A Log, and EMR. *Lower-tier subcontractors must be reviewed and approved* by the LMS contractor before work starts in accordance with the LMS contractor's *Safety and Health Review of Potential Subcontractor LMS 1980 and LMS 2079 Instructions*. *Timelines for sub-tier submittals* are the same structure as for the subcontractor when work is contracted. All applicable submittals should be provided to *contractsubmittals@lm.doe.gov* for review and acceptance.

2.4 FFD Evaluations

FFD evaluations are required for subcontractor personnel working under this SOW who have worked on a DOE site more than 20 days in the last 12 months (rolling). The subcontractor must submit a copy of the *Subcontractor Onsite Time Tracking Upon-Award Submittal* form (LMS 2146a) to the CA within <u>1 week</u> following award notice. The form must list the personnel who will be working under this SOW and the number of days each person has performed work on a DOE site in the last 12 months (rolling). Subcontractor personnel who have worked on a DOE site more than 20 days in the last 12 months will be scheduled for an FFD physical

evaluation through the LMS contractor's occupational medical services provider (OMSP). Initial FFD physicals and other related initial FFD medical testing costs are the responsibility of the LMS contractor.

For subcontractors who will be part of the FFD program, the *Fit for Duty Evaluation* (LMS 2115) (see example in Attachment 7) will be submitted for each individual it applies to for review by the LMS occupational medicine coordinator (OMC) and assignment of appropriate physical or medical surveillance, or both, as defined by IH for any required hazard monitoring determined by the site or SOW, or both.

Note: LMS 2146b, The Subcontractor Onsite Time Tracking Monthly Report *will be* <u>submitted</u> <u>monthly</u> with the hours worked for all personnel under the subcontractor who conduct work as part of the SOW. This form is submitted to contractsubmittals@lm.doe.gov.

Note: Subcontractors working on projects that will require personnel to be on a DOE site more than 20 days (rolling), requiring an FFD, will have the option of providing medical documentation for review to determine if physicals done within the last 6 months are comparable or equal to what would be conducted by the LMS contractor. This should include any medical surveillance or certification data identified as applicable to the project (e.g., lead, silica, asbestos, respirator).

Physical evaluation documentation that is requested to be provided for review for the FFD requirement will be facilitated through the LMS contractor's OMSP and the LMS contractor's occupational medicine program coordinator (OMPC) to maintain confidentiality of submitted documents. (*Note: Release of information is implied if this route is chosen for submitting equivalent records for review by the LMS contractor's OMSP.*) These documents should be provided to the LMS contractor's OMPC in a timely manner and no later than <u>20 days after the award notice</u>. Contact information for the OMPC will be provided at that time.

2.5 Accident Reporting

The subcontractor must immediately report to the LMS contractor's project lead, person in charge (PIC), construction site supervisor (CSS), assigned S&H representative, and STR/CA any accident, incident, or near miss that could affect the safety and health of the site workers or public involving personal injury or property damage, however minor, as well as any illness or injury known or suspected to have an occupational cause. The subcontractor must immediately secure the equipment or worksite involved in an accident, event, or near miss until the LMS contractor grants permission to return to work. The subcontractor must cooperate fully with the LMS contractor and DOE personnel in any investigation of an accident, illness, or injury.

The subcontractor is required to adhere to LMS reporting and investigation requirements should an injury occur during work under the SOW. The subcontractor's onsite designated supervisor will report to the project lead, S&H representative, and STR/CA that an injury occurred and any associated details during the investigation.

For scope of work under direct LMS supervision, the subcontractor's point of contact will work with the LMS OMC to facilitate any work restrictions that are present and address any potential for lost time. The subcontractor point of contact will provide updates to the OMC about the

status of the injured worker until the injury is resolved and the worker is medically released. The OMC will update the project lead and STR/CA about the status of the injured worker until they are released from medical care.

Note: There are requirements under 10 CFR 851 that may be applicable regarding FFD status and return to work for time offsite greater than 5 consecutive days for an injury or illness that is work- or nonwork-related. The subcontractor point of contact will interact with the project lead and LMS OMC to determine if these are applicable for any subcontractor personnel who were part of the FFD program requirements for project work scope under the SOW.

2.6 COVID-19 Requirements

The LMS contractor will provide the subcontractor with the *COVID-19 Health Screening for Site or Facility Access* (Exhibit 2) for review. The subcontractor will maintain compliance with the document requirements and any subsequent changes as outlined under future updates.

2.7 Training, Qualifications, and Pre-Job Briefing Requirements

Workers are responsible for performing tasks in accordance with provided training and may not perform tasks for which they have not been adequately trained. Minimum training requirements include the following:

A. Safety and health training

- The subcontractor may be required to complete LMS training for each subcontractor worker performing work under this SOW if the subcontractor does not have its own safety and health training or is working under the LMS S&H program.
- LMS training will be specific to the tasks performed under this SOW and may include training, such as hazard communication, hearing conservation, lockout/tagout, and heat stress. The LMS Learning department will produce a matrix of all courses necessary to perform work based on the project-specific hazards.
- This matrix will be validated by the project lead and sent to the subcontractor through contractsubmittals@lm.doe.gov. The subcontractor may submit a copy of its own training for evaluation by LMS S&H.
- B. Equivalency/Training Documentation
 - Upon review of the Training Matrix and required training assigned, any equivalency submitted will be documented using the *Training Equivalency Evaluation* (LMS 2177). Any training that is sent to the subcontractor will be completed before work is performed; the subcontractor will send confirmation of online training completion back to the LMS Learning department via a *Training and Meeting Attendance Sheet* (LMS 1720). The *Training and Meeting Attendance Sheet* will be sent to the subcontractor along with links to the documents (see examples in Attachment 8 and Attachment 9).

Note: Training equivalency reviews and acceptance will be done or assigned, or both, by the <u>Western Region Safety manager upon receipt</u>. Training equivalency review of the subcontractors provided documentation must meet the same review schedule, content, and any regulatory drivers as LMS contractors. To be considered equivalent, the

subcontractors training documentation must meet or exceed the LMS version of the course(s) and remain current until completion of the SOW. Equivalency submissions will be tracked by the LMS Learning department and maintained in its subcontractor training files.

— (Determine if required.) The Radiological Worker Level II (HS113) training course: This training is mandatory for subcontractor personnel performing or supporting work that gives them the potential to interact with radiological contamination from soil or debris due to previous site operations. These personnel must attend Radiological Worker Level II training provided by the LMS contractor. The subcontractor should plan for this training to take up to 16 hours and must ensure that workers who may need Radiological Worker Level II training class will be required. The LMS contractor cannot be held responsible for delays in providing the training for workers who are not present for the initial training.

Applicable □ N/A ✓

- C. Initial site briefing:
 - Subcontractor field personnel <u>must attend an LMS contractor initial site briefing on the</u> <u>first day of work before conducting any fieldwork</u>. This briefing will include an interactive discussion between the PIC and work participants regarding the work scope, hazards, environmental concerns, mitigation, emergency management, and responsibilities associated with an activity.
 - It will also include an initial walkdown of the work area (as appropriate) and a review of the LMS *Pause/Stop Work Procedures* (LMS/PRO/S20037). The JSA will be reviewed again and signed by the LMS contractor and subcontractor personnel during the initial site briefing to document the JSA finalization and briefing. If circumstances require the use of personnel who did not attend the initial site briefing, the subcontractor must arrange individual briefings with the LMS contractor for the replacement personnel before they begin fieldwork.
- D. Daily safety meetings:
 - At the beginning of each day's work or at a frequency specified by the LMS contractor and before starting specific tasks with significant or changed safety considerations, the LMS contractor and subcontractor must conduct a joint safety and health and operations meeting for personnel. The scope of the upcoming day's operations and activities will be reviewed, and hazards associated with those activities will be identified along with the safety implications and procedures to mitigate the hazards.
 - Relevant safety documentation associated with the upcoming work will also be reviewed. In addition, issues or concerns noted from the previous day's activities will be discussed, and field changes may be made to the JSA to reflect changed conditions. Meeting topics and attendance at the meeting will be documented on the *Pre-Job Brief/Safety Meeting Attendance Record* (LMS 1554) (see the example in Attachment 10) of which will be maintained in the project files.

- To be a learning organization, feedback for continuous improvement is encouraged and required by all personnel, including LMS contractor and subcontractor personnel, performing work.
- E. Personnel qualifications:
 - Qualified operators and laborers
 - The subcontractor will provide personnel who are trained, qualified, professional, licensed, and certified, as required, to operate equipment or perform their tasks as required under this subcontract. Operators must be qualified and experienced in operating the equipment they are assigned.

Note: At a minimum, it is expected that a "qualified" individual will be proficient in the machinery or equipment they are likely to operate. This will coincide with the equipment list provided, as applicable to the SOW, with the equipment or machinery being operated and all appropriate training and qualifications for equipment or machinery having been completed and submitted and that will remain current through the completion of work under the SOW.

Note: For specialty work requiring a license or regulatory-endorsed certification, this will be provided along with the training records.

- Specific experience or qualification requirements are detailed in the SOW and documentation supporting the requirements must be submitted in accordance with the SOW document. This documentation should be provided within <u>1 week</u> of the contract award.
- Subcontractor-designated supervisor
 - For each phase of work, the subcontractor must designate one trained, qualified, professional person from the personnel provided to act as an onsite supervisor or superintendent and provide subcontractor crew supervision. This subcontractor individual must have the authority within the subcontractor's company to be the subcontractor onsite supervisor for SOW tasks. This information will be documented on the OSHA Competent Person Designation form (LMS 2615b) under Part B: "Onsite Subcontractor Supervisor Acknowledgement of Understanding," and will be verbalized daily to the PIC before the start of work.

Note: For large complex projects, the designated subcontractor supervisor should not be listed in a working category as the intent is to supervise the work. For smaller, less complex projects, upon review by project and S&H personnel, a determination can be made that the subcontractor's supervisor can be a designated "working" supervisor after review and approval based on SOW size and hazard requirements.

- OSHA competent person for specialized work
 - The subcontractor must identify an OSHA competent person for any work involving asbestos, lead abatement, crane or derrick use, excavations, fall protection, hoisting and rigging, scaffolding, or any other applicable "special hazard work" identified under the SOW.
 - The subcontractor must provide names of competent persons in accordance with OSHA regulations on the OSHA Competent Person Designation (For Specialized)

Work Scope) form (LMS 2615a). The identified OSHA competent person(s) must meet the requirements of a competent person for each OSHA component of the work (e.g., asbestos and lead abatement, crane, or derrick use). The forms must be updated and resubmitted as the project progresses if changes in personnel occur or additions are made during the specialized work scope as defined under the SOW.

Notes:

- <u>OSHA Competent Person (general)</u>: This title refers to one who can identify existing and predictable lead hazards in the surroundings or working conditions and who has authorization to take prompt corrective measures to eliminate them.
- <u>Asbestos</u>: 29 CFR 1926.32(f): In addition, for Class I and Class II work, it must be determined who is specially trained from a training course that meets the criteria of the U.S. Environmental Protection Agency's (EPA) Model Accreditation Plan (40 CFR 763), or its equivalent, for the supervisor and, for Class III and Class IV work, who is trained in a manner consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth in 40 CFR 763.92 (a)(2).
- <u>Cranes or Derricks</u>: The minimum requirements in 29 CFR 1926.1427I(2)(i) and (ii), including satisfying the substantive testing criteria of 29 CFR 1926.1427(j) through written and practical tests and providing testing procedures for licensing, should be met. This includes requirements for any signal person(s) used under 29 CFR 1428(c).
- <u>MFD/Mandatory Flow Down</u>: Under the LMS contract there are clauses that must be passed down to lower-tier subcontractors.
- <u>Scaffolding</u>: See 29 CFR 1926.451: https://www.osha.gov/lawsregs/regulations/standardnumber/1926/1926.451.
- Fall protection, scaffolding, and aerial lift training
 - The subcontractor must provide personnel who are trained and qualified to perform the work covered by this subcontract and as meets the standard for this work. The subcontractor must provide documentation on letterhead of current training completed to document personnel proficiency to perform tasks required by this section.
- Qualified or licensed electrician (electrical worker) (licensed as applicable under state requirements) for the SOW including electrical work less than 1000 volts.

Note: For work that requires greater than 1000 volts of which electrical standards or practice(s) may change, the AHJ will review the electrical portion of the SOW and make the determination of acceptable documentation supporting qualified electrical worker status.

- The subcontractor must use a qualified or licensed, or both, worker or electrician when performing electrical work and be supervised by a qualified or licensed electrician.
- Lower-tier subcontractors must provide a copy for review of their electrical program, procedure, or electrical SP to contractsubmittals@lm.doe.gov.

- The training of a qualified electrical worker must meet the requirements of 29 CFR 1910.332 and include at least the following:
 - Ability to distinguish exposed live parts from other parts of electrical equipment
 - Ability to determine the nominal voltage of live parts
 - Knowledge of clearance or approach distances specified in 29 CFR 1910.333, "Selection and Use of Work Practices"
 - Proper use of special precautionary techniques, PPE, insulating and shielding materials, and insulated tools
 - PPE for voltage and arc-flash protection must meet the requirements of NFPA Standard 70E (or the most current edition)
- Note: The LMS contractor's Electrical Safety Program (LMS/POL/S16017) will be the guiding document for S&H or AHJ review against the subcontractor's submitted program, procedure, or electrical SP, which must meet or exceed the LMS contractor's requirements. A copy will be provided to the SOW. The subcontractor must submit copies of the qualified or licensed worker's or electrician supervisor's licensing and qualification to document that apprentice electrical workers are qualified and monitored while under the supervision of the qualified or licensed personnel.

Note: Solar work standards or requirements for specialized work will apply and be defined under the SOW for personnel conducting or working under the supervision of either a licensed individual or specialty certification as required for solar equipment or material work. The appropriate documentation will be submitted for these individuals as applicable under the SOW.

- Certified to provide first aid and CPR
 - The subcontractor must provide at least one person who is certified to perform first aid and CPR onsite. Evidence of current training must be submitted and must meet criteria established under the AHA. Equivalent substitutes, including the American Red Cross, National Safety Council, or others that meet standards under AHA, are considered acceptable equivalents. Certification must be current during work under the SOW. Copies of training and certification(s) will be provided via contractsubmittals@lm.doe.gov.

2.8 Equipment and Materials Inspections

Choose which items below are applicable or mark N/A.

Before mobilization to the site, the subcontractor must ensure that vehicles, heavy equipment, and materials comply with and meet manufacturer's safety and operating requirements and any applicable regulatory standards and requirements under OSHA, DOE, and the U.S. Department of Transportation and with the...

State where work is being conducted: Ohio

Applicable ✓ N/A □

The following form must be used: *Truck and Equipment Inspection Checklist* (LMS 2621b CON) (see example in Attachment 11).

Note: The equipment or material submittal is the deliverable or matches the specifications of what is being delivered, or both.

The subcontractor will provide a list of lower-tier subcontractors who will be transporting equipment or materials, or both, to the site to the CSS or designee because an LMS contractor representative is required to be present for acceptance or inspection, or both, as applicable. Failure to notify the LMS contractor may result in supplies or equipment, or both, not being received at that time, without LMS contractor concurrence.

If vehicles, heavy equipment, construction equipment, or materials do not meet the manufacturer's safety and operating requirements and applicable regulatory standards, the vehicles, heavy equipment, or materials must not be used on the jobsite until approved by the LMS contractor.

2.9 Radiological Decontamination

The subcontractor must make vehicles, heavy equipment, construction equipment, and materials available to the LMS contractor for an initial safety and radiological inspection *(if work will be performed in a radiologically controlled area)* before work starts. The subcontractor must allow up to 1 workday for the LMS contractor to conduct the initial inspection and up to 1 hour for each additional piece of equipment delivered to the jobsite. *(RadCon Representative reviews the time required for each project with Construction Support and the time required for radiological inspections with S&H and as defined under the Construction SOW requirements.)*

Applicable □ N/A ✓

If vehicles, heavy equipment, construction equipment, or materials are found to be radiologically contaminated during the survey, then that vehicle, heavy equipment, construction equipment, or material will not be allowed on the worksite. If contaminated vehicles, heavy equipment, construction equipment, or materials are required to be onsite, then the subcontractor will be responsible for the decontamination of the vehicle, heavy equipment, construction equipment, or material before mobilization to the site.

A qualified LMS radiological control technician will perform incoming radiological surveys on vehicles, heavy equipment, construction equipment, and materials to be used in radiologically controlled areas.

2.10 Safety Requirements

- A. Safety and health permits, checklists, and plans
 - The LMS contractor must issue the <u>appropriate permit, checklist, or plan</u> for nonroutine jobs that are not covered by a written procedure, SP, or JSA. Nonroutine jobs include confined space entry, use of fall restraint equipment, hot work, lockout/tagout, penetrations or excavations, or work that requires a radiological work permit. Training to the LMS program will be required if the subcontractor does not have equivalent training.

Note: If verifiable training documents have not been provided, LMS contractor training is required before notice to proceed.

- B. Hoisting and rigging
 - Lifts must comply with *Cranes, Hoists, and Rigging* (LMS/PRO/S16016). The subcontractor must submit the current certification of crane and derrick operators if the work involves cranes or derricks.
 - If the lifting equipment meets the requirements of 29 CFR 1926, Subpart CC, "Cranes and Derricks in Construction," the subcontractor must submit documentation to the LMS contractor that the lifting equipment has been inspected by a competent person in the last 12 months and the equipment operator is trained and qualified to operate the lifting equipment.
 - The subcontractor must either prepare and submit a lift plan or use the LMS contractor's *Lift Plan* form.
- C. Heavy equipment unloading
 - Heavy equipment <u>must not be unloaded until</u> the hazard analysis for this task, as documented in the JSA, SP, or standard operating procedure (SOP), has been reviewed by both the LMS contractor representative and subcontractor representative. Subcontractor workers performing this activity must be briefed.
 - The subcontractor must notify the LMS contractor's representative, CSS, or designee of the type of equipment being unloaded <u>1 day</u> before the equipment is brought onsite. The equipment must only be unloaded with the assigned LMS contractor representative present.
- D. Equipment use
 - Tools, industrial equipment, and mechanical attachments must be configured as specified by the manufacturer. When the subcontractor has the option to choose between enclosed or open-cab equipment, preference will be given to equipment with <u>enclosed</u> cabs and functioning climate control. These options serve as engineering controls for silica, dust exposure, and thermal stress.
 - The personnel will operate equipment in accordance with recommendations and guidelines specified by the manufacturer.

- E. Electrical safety
 - Electrical work must be performed in accordance with Subpart K of 29 CFR 1926, NFPA 70 (current edition), NFPA 70E (current edition), and the LMS contractor's *Electrical Safety Program*, including requirements of the *Lockout/Tagout Hazardous Energy Control Procedure* (LMS/PRO/S16033) if the subcontractor does not have an established program.

Applicable ✓ N/A □ Subcontractor has a qualifying program

 Electrical installations must be performed by qualified, trained, professional personnel under the supervision of a licensed electrical LMS contractor...
 in the State of Object

in the State of: Ohio

Note: The LMS S&H representative reviewing this document is responsible for providing a copy of the Lockout/Tagout Hazardous Energy Control Procedure *to the subcontract technical representative (STR) to be provided to the subcontractor before the* <u>start of work</u>. *The LMS S&H representative will document that the STR received and acknowledged that the procedure has been provided for review to the subcontractor as a memo for the project or contract file.*)

- F. Fall protection, scaffolding, aerial lifts
 - Fall protection
 - Fall protection must be implemented when working at unprotected heights of 6 feet or greater. When fall protection is required, fall protection must comply with the requirements of Subpart M of 29 CFR 1926.
 - The subcontractor must ensure that its workers are trained on the requirements for fall protection in accordance with 29 CFR 1926.503.
 - Scaffolding
 - Any use of scaffolding must comply with the requirements of Subpart L of 29 CFR 1926.
 - A competent person must inspect the scaffolding each day before use, approve the initial use of the scaffolding, and inspect the scaffolding following any occurrence that could affect structural integrity of the scaffold.
 - Fall protection must be used during the erecting and dismantling of scaffolds. When fall protection creates a greater hazard, the subcontractor must submit an alternate method to the LMS contractor for concurrence.
 - Aerial lifts (extendable boom platforms, aerial ladders, articulating boom platforms, vertical towers, or a combination of any such devices)
 - Any use of an aerial lift must comply with the manufacturer's operating instructions and the requirements of Subpart L of 29 CFR 1926.

- G. Radioactive sources and radiation-generating devices
 - Radioactive sources, including radiography sources, radiation generating devices, and nuclear soil density gauges, must not be brought on a jobsite by the subcontractor without prior notification to and approval by the LMS contractor's RCM.
 - Advanced notification must be made by submitting the *Request to Bring Radioactive Sources Onto an LM-Controlled Site* form (LMS 2038) (see example in Attachment 12) as early as possible and with sufficient time to allow the LMS contractor's RCM to review documentation, including the associated radioactive material license and the most current integrity test. Radioactive sources must be identified by serial number, isotope(s), and total activity. Radiation-generating devices must be identified by manufacturer, model, and serial number.

Applicable □ N/A ✓

Note: If applicable is checked, the RCM must be notified. The S&H representative will forward the information on the source to the RCM for review and approval.

2.11 Radiological Safety and Health Requirements

(Used only for radiologically controlled projects)

A. Definitions

Radiological area: An area that is physically controlled for the purposes of managing a radiological hazard while controlling access to the area. Radiological areas can include soil contamination areas, surface contamination areas, fixed-surface contamination areas, airborne radioactivity areas, and radiation areas, as determined by the LMS contractor.

Contamination area (radiological): An area where surface radioactive contamination levels are greater than 1000 disintegrations per minute per 100 square centimeters for loose-surface contamination.

Soil contamination area (radiological): An area where a large volume of soil exists with radium-226 concentrations greater than 5 picocuries per gram (pCi/g) on the surface, greater than 15 pCi/g below the surface (below 6 inches), or when other volumetric soil limits are exceeded. (*For each project, the Radiological Control organization must be consulted to determine appropriate levels.*)

Controlled areas: Areas to which access is managed to protect individuals from exposure to radiation or radioactive material.

- B. Contamination area. The following requirements must be enforced.
 - Workers leaving a contamination area will be monitored for radioactive contamination. If contamination above applicable limits are found, workers will be decontaminated at the direction of the LMS contractor.
 - Only trained personnel accepted by the LMS contractor must be allowed unescorted access.
 - Visible surface material (soils) must be removed from personnel, vehicles, tools, and equipment before exiting a contamination area.

- Workers who willfully fail to follow the established radiological requirements and procedures must be disqualified and restricted from entry into radiological areas. Radiological retraining at the subcontractor's expense may be required to regain qualification. Continued willful violations may result in the subcontractor removing an employee from the project.
- Heat stress presents a significant hazard when wearing protective coveralls and must be controlled through a series of actions as specified in Section 2.12(D). One or more rest stations for heat stress relief may be established under controlled conditions within the contamination area. These rest stations will be monitored by the LMS contractor staff and maintained as "clean areas," thereby providing an area where workers can partially remove PPE, drink water, and cool off without having to exit the general site contamination area boundary. Personnel must be monitored for radioactive contamination before entering the rest station.

2.12 Industrial Hygiene Requirements

- A. Hearing conservation
 - Hearing protection must be provided by the subcontractor and worn in areas that a noise level equals or exceeds an 8-hour time-weighted average (TWA) sound level of 85 decibels A-weighted (dBA). If sound level surveys are not available, hearing protection must be used with a noise reduction rating (NRR) of at least 33 for earplugs and 31 for earmuffs or a combination, if needed, based on work operations.
 - Hearing protection must be worn anywhere motorized equipment is operating in the immediate area or when the LMS contractor suspects the sound levels exceed the action level based on planning or work operations that have been reviewed. Training to the LMS contractor's hearing conservation program will be required if the subcontractor does not have equivalent training for those projects identified to have noise impacts. (Note: Insert impact noise action level if available.)

Action Level:

- B. Personnel Monitoring
 - Personnel and area air monitoring: Personnel must allow the LMS contractor's staff to acquire personal (personnel) and area air samples (airborne contaminate) applicable to the tasks being performed, as well as noise monitoring as determined necessary by the LMS contractor. Subcontractor personnel will be notified by the LMS contractor in writing of all personal monitoring results, as applicable.
 - Any tampering with industrial hygiene equipment (i.e., air monitoring or noise dosimetry equipment, or both) by subcontractor personnel must be cause for suspension of the affected work at the subcontractor's expense.

- C. Hazard communication
 - The subcontractor must submit a completed *LMS Hazardous Chemical Inventory* form (LMS 1067) (Sections 1 and 2) and submit current SDSs for chemicals used under this SOW. This will include listing the quantity, chemicals, and products, as applicable, to the scope of work under the SOW.

Note: If there are additional chemicals or products or the quantity of these change during work under the SOW, an updated <u>Section 2 of the LMS Hazardous Chemical</u> Inventory form must be completed and submitted (ongoing as applicable).

— The subcontractor must compile the LMS Hazardous Chemical Inventory form and SDSs into an SDS binder that must be present at the worksite. SDSs must comply with the 16-section format requirement identified in OSHA's hazard communication standard [29 CFR 1910.1200(g)]. The binders must contain only the (physical or hard copy) SDSs for the chemicals used on the site. The binders must be clearly marked and placed in a convenient location for personnel to access.

Note: If the subcontractor has an electronic means to submit inventory and SDSs, this may be submitted to the LMS contractor's certified IH for review. The electronic versions must be accessible onsite upon request and workers aware of how to access if there is a release or spill.

- D. Heat stress
 - If the subcontractor does not have its own heat stress monitoring program that has been reviewed and approved by the LMS contractor, the subcontractor must follow the contractor's heat stress monitoring program as specified in the contractor's work control documents and procedures (e.g., *LMS Safety and Health Program* [LMS/POL/S20043], *Heat Stress Evaluation and Monitoring Procedure* [LMS/POL/S15935], and JSAs) when heat stress conditions exist.
 - Heat stress monitoring will be performed to prevent heat-related illnesses and will include either environmental monitoring and work/rest regimes or pulse rate monitoring with rest periods based on sustained elevated pulse rates (i.e., American Conference of Governmental Industrial Hygienists' method for determining). The monitoring methodology and equipment will be provided by the LMS contractor if the subcontractor does not have its own program and equipment.

2.13 Industrial Hygiene Monitoring Results Data

For any required industrial hygiene monitoring, the LMS contractor will do the monitoring and make available any results requested by the subcontractor.

Applicable ✓ N/A □

2.14 Work Clothing and PPE

(Add PPE as required and in accordance with LMS contractor's S&H or IH instruction for identified hazards on the project. Those requirements should be documented on the JSA.)

- A. Work clothing
 - Minimum adequate dress for personnel on a jobsite must consist of the following:
 - ➢ Full-length trousers, slacks, or jeans in good condition
 - Safety shoes with sturdy soles that meet the recommendations of ASTM F2412-18a or ASTM F2413-18
 - Shirts that cover the shoulders with sleeves at least T-shirt length
 - Leather, cotton, or synthetic work gloves, when required, to protect from abrasions, cuts, and bruises and to enhance the ability to safely grasp objects
 - > Any other items applicable to the work being done

B. PPE level(s)

(As determined by work scope, hazard, or the LMS contractor's S&H or IH direction. OSHA's PPE requirements are available here: https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.120AppB.)

- The subcontractor is responsible for providing Level D PPE to its workers at a minimum required under the SOW identified hazards. Use of Level(s) A, B, or C will be determined by work scope or LMS contractor requirements based on identified hazards from the SOW or requirements from S&H or IH.
- Minimum level D includes the following: (*The LMS contractor reserves the right to assess for compliance.*)
 - Safety glasses, with side shields or wraparounds, when required, that meet the specifications of ANSI/ISEA Z87.1-2020. Glasses must be stamped with the ANSI/ISEA certification.
 - ▶ Hard hats that meet the requirements of ANSI/ISEA Z89.1-2014.
 - Hearing protection is required when a noise level equals or exceeds an 8-hour TWA sound level of 85 dBA. Earplugs must have an NRR of at least 33. Earmuffs must have an NRR of at least 31.
 - ➢ High-visibility outerwear, when required.
- Specific PPE requirements, including when to wear it, will be documented in either the LMS contractor's or subcontractor's JSA, SP, SOPs, permits, or other safety documents for specific tasks or specialized work scope. The LMS contractor reserves the right to adjust PPE requirements to protect personnel from hazards.

Specific PPE: Applicable ✓ N/A □

(Only include if more than Level D PPE is required.) Protective coveralls will be provided by the:

Contractor
Subcontractor

and must be worn with at least modesty clothing (recommend medical scrubs) underneath. Modesty clothing will not be provided by the LMS contractor.

2.15 Sanitation

- A. Toilet and washing facilities.
 - The subcontractor must provide chemical toilets and hand-washing stations at the worksite unless directed otherwise by the LMS contractor.
 - The number of toilets and hand-washing stations must be in accordance with OSHA requirements (29 CFR 1926.51). When temperatures are potentially below freezing, liquid hand cleaner will be provided. The subcontractor must ensure that washing facilities meeting the following criteria are available for employees:
 - The facility must use potable water. Wash water containers must be clearly marked for exclusive use as wash water containers and include prohibition of drinking. Hand soap or similar cleansing agents must be available.
 - Individual hand towels, cloth, or paper must be available next to the temporary toilet facility. A receptacle for used towels must be provided.
- B. Drinking water
 - The subcontractor must provide bottled water or potable drinking water in accordance with the following:
 - > Potable water adequate for the number of personnel at the site.
 - > Potable water containers equipped with tight-fitting caps.
 - Water dispensers (if used) equipped with a tap to dispense the water. Water must not be dipped from the container.
 - Containers used to dispense drinking water, clearly marked for exclusive use as drinking water containers.
 - Single-serve disposable cups, with a sanitary container for the unused cups and a receptacle for the used cups.
 - Potable water in quantities available to meet the needs of workers onsite when heat stress conditions are present.

- C. Change rooms
 - Subcontractor personnel are required to wear protective clothing because of the possibility of contamination with toxic or hazardous materials. Change rooms will have separate storage facilities for street clothes and protective clothing.
 - Change rooms will be provided by the:

Contractor Subcontractor

- D. First aid kits
 - The subcontractor must provide a first aid kit that meets the requirements of ANSI/ISEA Z308.1-2021 for minimum supplies and expiration dates. First aid kits may contain additional items to augment kits based on the hazards of the work environment.

End of Section 01020

Attachment 1

Subcontractor's Job Safety Analysis (JSA) Form

This JSA blank template is for use by a subcontractor who may not have their own template. It is to be filled out by the appropriate subcontractor personnel and reviewed by LMS S&H as applicable to the scope of work.

Descriptive title:

□ Specific Project:

Expiration date:

Work Scope

The scope statement must address the following five questions:

1. What is the work being performed?

2. Where is the work being performed? Which site(s)? Inside or outside?

3. When is the work being performed (i.e., exact date[s], month[s], season[s])?

4. What tools or equipment will be used? Hand tools do not need to be itemized; however, power tools and heavy equipment shall be itemized.

5. Who is performing the work (contractor, subcontractor, or both)?

Define the Scope of Work by Individual Tasks (Integrated Safety Management System Core Function #1)	Analyze the Safety and Environmental Hazards (Integrated Safety Management System Core Function #2)	Develop and Implement Controls (Integrated Safety Management System Core Function #3)

Descriptive title:

Define the Scope of Work by Individual Tasks (Integrated Safety Management System Core Function #1)	Analyze the Safety and Environmental Hazards (Integrated Safety Management System Core Function #2)	Develop and Implement Controls (Integrated Safety Management System Core Function #3)

Descriptive title:

Define the Scope of Work by Individual Tasks (Integrated Safety Management System Core Function #1)	Analyze the Safety and Environmental Hazards (Integrated Safety Management System Core Function #2)	Develop and Implement Controls (Integrated Safety Management System Core Function #3)

JSA Review/Approval

Line Supervisor/Foreman (Print name)

Worker Representative (Print name)

Signature

Signature

Date

Date

Descriptive title:

I have reviewed this form, understand the hazards present at the worksite, and will comply with the Integrated Work Control Process document to perform work as acknowledged by my signature below. I understand that the JSA does not authorize work.

Print Name	Signature	Company	Date

Attachment 1, Page 4

Descriptive title:

Field Change Authorization and Review

Field Management Changes (Use a separate sheet if more space is necessary.)

Define New or Changed Scope of Work by Tasks (Integrated Safety Management System Core Function #1)	Analyze the New or Changed Hazards (Integrated Safety Management System Core Function #2)	Develop and Implement New Controls (Integrated Safety Management System Core Function #3)	Date

Line Supervisor/Foreman (Print Name)

Worker Representative (Print Name)

Signature

Date

Signature

Date

Attachment 1, Page 5

Descriptive title:

I acknowledge I have had the opportunity to provide input on the field change and am aware of the scope change, new or changed hazards, and associated work controls.

Print Name	Signature	Company	Date

Provide Feedback and Improvement Suggestions			
(Integrated Safety Management System Core Function #5)			

Attachment 2

Examples of Subcontractor Time Tracking Monthly Reports

Subcontractor Onsite Time Tracking Upon-Award Submittal (LMS 2146a) Subcontractor Onsite Time Tracking Monthly Report (LMS 2146b)



Subcontractor Onsite Time Tracking Upon-Award Submittal

Pursuant to Title 10 *Code of Federal Regulations* Section 851, "Worker Safety and Health Program," the Legacy Management Support (LMS) contractor tracks the total number of days and Occupational Safety and Health Administration (OSHA) hours worked on all U.S. Department of Energy (DOE) sites by all employees working under LMS contracts. The subcontractor must (1) record all hours worked on DOE-owned or -controlled sites (excluding travel to and from the site) during the 12-month period immediately preceding the date indicated on this form for each employee (including lower-tier subcontract) assigned to the LMS project specified below and (2) submit them using this form to the LMS contract administrator within 5 days after notice of award. For each month thereafter, hours worked onsite for the specified LMS project must be submitted using the *Subcontractor Onsite Time Tracking Monthly Report* form (LMS 2146b). Failure to submit this form in a timely manner as specified herein may result in work delays.

Days are tracked over a 12-month rolling period (not by calendar year). Complete this form, including *all* employees assigned to perform onsite work and excluding work performed remotely (offsite). Enter "0" to indicate no onsite work in the last 12 months. Questions should be addressed to your contract administrator.

Company	Number of Days in the Last 12 Months	Site(s) Where Work Was Performed
	l l	
16036)	Page 1 of 1	Februar
	Company	Number of Days in the Last 12 Months



Subcontractor Onsite Time Tracking Monthly Report

Pursuant to Title 10 *Code of Federal Regulations* Section 851, "Worker Safety and Health Program," the Legacy Management Support (LMS) contractor tracks the total number of days and Occupational Safety and Health Administration (OSHA) hours worked on all U.S. Department of Energy (DOE) sites by all employees working under LMS contracts. The subcontractor must (1) record all hours worked on DOE-owned or -controlled sites (excluding travel to and from the site) for each employee (including lower-tier subcontract) assigned to the LMS project specified below and (2) submit them using this form to the LMS contract administrator with each invoice. Failure to submit this form will result in nonpayment of an otherwise-approved invoice. Questions should be addressed to your contract administrator.

This form is for recording the hours worked on LMS projects *on* DOE-owned or -controlled sites (i.e., onsite work) only. *Do not* include hours worked offsite (e.g., work at home office), even if they accrued to an LMS project.

Subcontractor:	Month:	Year	
LMS project:			

	Company	Hours Worked Onsite This Month		
Name		Number of Hours	Site(s) Where Work Was Performed	
			2	
Occupational Medical Program (LMS/PRO/S16 LMS 2146b-1.0	036)	Pag	e 1 of 1 February 16, 2024	

Attachment 3

Examples of OSHA Competent Person Designation (For Specialized Work Scope) (LMS 2615a) and OSHA Competent Person Designation (LMS 2615b)

	RS	ENTECH		
In Partnership with Amentum and TFE				
Uni	ted for the Legacy Management	Mission 🖥		

OSHA Competent Person Designation (For Specialized Work Scope) **PART A: Authorization of Competent Person** Site: Project: The following individual(s) representing is (are) designated as the Occupational Safety and Health Administration (OSHA) Competent Person(s), and is (are) capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to personnel on the site or to the public, and have authorization to take prompt corrective measures including "stop work" authority to eliminate these conditions while overseeing the specific work scope outlined in this subcontract. The specialized work encompasses the following: (Check all that apply) □ Asbestos Excavation □ Hoisting/rigging □ Scaffolding □ Cranes/derricks □ Fall protection □ Lead Silica-generating activity □ Other (*specify*): 1. Competent Person Site Lead Signature and Date Descending order of designated competent person in the absence of the Line 1 or Line 2 competent person: 2. Competent Person Site Lead Signature and Date 3. Competent Person Site Lead Signature and Date Specialized Work Competent Person Site Lead Signature and Date LMS Safety and Health Program (LMS/POL/S20043) LMS 2615a-3.0 Page 1 of 1 February 16, 2024



OSHA Competent Person Designation

PART B: Onsite Subcontractor Supervisor Acknowledgement of Understanding

Site: _____

Project:_____

I, _____, designated as the assigned Onsite Subcontractor Supervisor for subcontract or Purchase Order #.: ______ acknowledge that I have read and understand the subcontract documents relative to the scope of work. As the designated Onsite Subcontractor Supervisor, I am also the primary designated Occupational Safety and Health Administration (OSHA) Competent Person unless another party is identified for a specialized work scope.

Onsite Subcontractor Supervisor's Signature

Onsite Subcontractor Supervisor

Signature and Date

Supervisor's Company

LMS Safety and Health Program (LMS/POL/S20043) LMS 2615b-3.0

Page 1 of 1

February 08, 2024

Attachment 4

Example of LMS Hazardous Chemical Inventory (LMS 1067)



Date:

Date:

LMS Hazardous Chemical Inventory

Section 1: Initial Submittal

Legacy Management Support (LMS) Facility Name/Location: (for LMS submittals)

Person Submitting:

Subcontractor Name/Project Site: _____

(for subcontractor submittals)

Person Submitting:

	Chemical/Product Name	Product Code	Manufacturer	Quantity	Storage Location
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
Hazardous Chei LMS 1067-3.0	nical Program (LMS/PRO/S16026)	Pa	ge 1 of 4		February 08, 2024



LMS Hazardous Chemical Inventory

Chemica	I/Product Name	Product Code	Manufacturer	Quantity	Storage Location
28.					
29.					
30.					
31.					
32.					
33.					
34.					
35.					
36.					
37.					
38.					
39.					
40.					
41.					
42.					
43.					
44.					
45.					
		Signa	ture		
	Industrial Hugiana (Parana in Cha	van Nome	Signature and Data E	Paviawad	
, Notes:					
Hazardous Chemical Program (L LMS 1067-3.0	.MS/PRO/S16026)	Pa	ge 2 of 4		February 08, 2024



Date:

Date:

LMS Hazardous Chemical Inventory

Please use Section 2 for new inventory submittals or quantity changes to previously provided product information. Include a copy of the Safety Data Sheet with any new products.

Section 2: New Inventory Submittal or Quantity Change

LMS Facility Name/Location: (for LMS submittals)

Person Submitting:

Subcontractor Name/Project Site: (for subcontractor submittals)

Person Submitting:

	Chemical/Product Name	Product Code	Manufacturer	Quantity Check box if change to previous	Storage Location
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.	*				
18.					
19.					
20.					
Hazardous Che LMS 1067-3.0	emical Program (LMS/PRO/S16026)		Page 3 of 4		February 08, 2024



Quantity Check box if change to previous **Storage Location Chemical/Product Name Product Code** Manufacturer 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. Signature Industrial Hygiene/Person in Charge Name Signature and Date Reviewed Notes: Hazardous Chemical Program (LMS/PRO/S16026) LMS 1067-3.0 Page 4 of 4 February 08, 2024

LMS Hazardous Chemical Inventory
Example of LMS *Lift Plan* (LMS 1987)



Lift Plan

Type of lift: Ordinary lift Critical lift	Prepared by :		
If Pre-Engineered Lift, work instructions or lift procedur place of lift plan.	uired in	Expires (maximum 1 year from date):	
Location:			
Load description:			
Lift description:			
All areas applicable to be completed. If not applica	ble, mark	N/A.	
A. WEIGHT		D. HOIST R	OPE
1. Gross weight of load:	lb	1. Number o	f parts of rope:
2. Weight of headache ball:	lb	2. Size of ro	pe:
3. Weight of block:	lb	3. Capacity	of rope (per part):
4. Weight of lifting bar:	lb	E. SLINGS	AND SHACKLES
5. Weight of slings and shackles:	lb	1. Sling sele rope	ction: Synthetic Chain Wire
6. Weight of jib: 🗌 Erect 🔲 Stowed	lb	a. Type of a	arrangement:
7. Weight of headache ball on jib:	lb	b. Number	of slings in hook-up:
8. Weight of hoist rope:	lb	c. Sling siz	e:
9. Allowance for unaccounted material::	lb	d. Rated ca	apacity of sling (per tags):
Total load weight:	lb	2. Shackle s	election:
10. Verify manufacturer lift-point capacity rating:		a. Shackle	size: inches
B. JIB		b. Capacity	r: tons
1. Length of jib:	lb	c. Number	of shackles:
2. Angle of jib:	lb	F. LIFTING	EQUIPMENT
3. Rated capacity of jib (from chart):	lb	1. Type: 🔲 Earthmoving	Mobile crane 🔲 Forklift 🔲
C. LIFTING EQUIPMENT		2. Manufactu	urer and model:
1. Any deviation from smooth solid surface in area?	Yes 🗌	3. Maximum	rated capacity from chart::
Explain:		4. Lifting arra	angement:
1a. Cribbing or mats required ☐ No	🗌 yes	a. Max dist (radius):	ance—center of load to center pin of crane ft
2. Electrical hazards within 20 feet of load or crane? ☐ ☐ No] Yes	b. Boom lei	ngth: Min. Max.
a. If yes, what is maximum voltage of lines:		c. Angle of	boom at pick:
b. If yes, what is minimum clearance required by the ft.	voltage:	d. Angle of	boom at set:
LMS 1987	Page	1 of 3	April 7, 202



Lift Plan

 c. If yes, pre-job briefing required to discuss prevent operating too close to overhead line Explain: B. Obstacles or obstructions to lift or swing? 	controls to es.] Yes No	5. Capacity a. Over front: Ib b. Over rear: Ib	
Explain:		c. Over side: Ib	
L. Swing direction and degree (boom swing).		6. Chart capacity for configuration	
Travel with load required?	/es □No	Max load on crane:	
Aultiple crane lifts require a separate lift pl rane. Changes in the configuration of the placement, rigging, lifting scheme, etc., or calculations require the lift plan be reappro Pre-Lift Checklist (LMS 1985) must be attac equired before initiating lifting activities e	an for each crane, changes in any oved. :hed for each loc ach day. Job sup	Lift is percent of crane's rate ation a lift is being performed. Pre pervisor will verify conditions have	d capacity: -lift briefing/meeting not changed since
Comments:			
LMS Representative or CSS Signature	Date	Person In Charge Signature	Date
Rigger Signature (as required)	Date	Operator Signature	Date
Signal Person Signature (as required)	Date	Safety and Health Signature	Date
Attach additional sheets for diagrams of c least 24 hours is required for all lift plan si result in denial of lift plan approval.	rane lifts, load p ubmittals to the	lacement, and rigging configuration LMS Representative/CSS. Failure t	n as required. Af o comply could



Sketch of Lift:	

Examples of Safety and Health Review of Potential Subcontractor (LMS 1980) and Safety and Health Worksheet (LMS 2079)



Safety and Health Review of Potential Subcontractor (Use with form LMS 2079, *Safety and Health Worksheet*)

Safety and Health Representative:	Date:	
Contract Administrator:	Site Lead:	
Subcontractor:		
General contractor	□ Lower-tier contractor □ Less than 10 employees (Explanation of lack of Experience Mod Rate [EMR] is still required to be submit	ificatio tted)
Project Location:		
Project Description:		
Safety and Health		
I have reviewed the attached forms for the re	eferenced subcontractor. As a result of this review, the subcontractor's ratings	are:
EMR (3-year average)	Occupational Safety and Health Administration (OSHA) (3-year average)	
< 0.8 approved	< 2.0 approved	
> 0.8 < 1.25 Site lead or operations manage	er approval required > 2.0 < 2.5 Site lead or operations manager approval requir	ed
> 1.25 Safety and Health manager approval	al required > 2.5 Safety and Health manager approval required	
Subcontractor \Box is approved for work on t	this project. Or,	_
Subcontractor must be approved to work o	on this project with the concurrence of the site lead or operations manager	
Site lead or operations manager approval	□ is □ is not required.	
Site lead or operations manager approval Safety and Health manager approval □ is	□ is □ is not required. s □ is not required.	
Site lead or operations manager approval Safety and Health manager approval 🗌 is	 □ is □ is not required. s □ is not required. 	
Site lead or operations manager approval Safety and Health manager approval	□ is □ is not required. s □ is not required.	
Site lead or operations manager approval Safety and Health manager approval Comments:	□ is □ is not required. s □ is not required. Title:	
Site lead or operations manager approval Safety and Health manager approval □ is Comments: Signed by:	is is not required. is is not required. Title:	
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by:	□ is □ is not required. s □ is not required. Title: Trogram Tety and health program and it meets or exceeds the contractor's safety an Code of Federal Regulations 851 "Worker Safety and Health Program "	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safe requirements as identified in Title 10 C	□ is □ is not required. s □ is not required. Title: Togram Tety and health program and it meets or exceeds the contractor's safety an Code of Federal Regulations 851, "Worker Safety and Health Program."	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by:		d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safet requirements as identified in Title 10 C Site Lead or Operations Manager (if i)	□ is □ is not required. s □ is not required. s □ is not required. Title:	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safet requirements as identified in Title 10 C Site Lead or Operations Manager (if i) Comments:	□ is □ is not required. s □ is not required. Title: rogram Tety and health program and it meets or exceeds the contractor's safety and Code of Federal Regulations 851, "Worker Safety and Health Program." If necessary) Date: □ Approved □ Rejected	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safet requirements as identified in Title 10 C Site Lead or Operations Manager (if in Comments: Comments:	□ is □ is not required. s □ is not required. rogram Title: rety and health program and it meets or exceeds the contractor's safety and Code of Federal Regulations 851, "Worker Safety and Health Program." Tracessary) Date:	d hea
Site lead or operations manager approval Safety and Health manager approval Signed by:	is is not required. Title: Togram Tety and health program and it meets or exceeds the contractor's safety and Code of Federal Regulations 851, "Worker Safety and Health Program." Fincessary) Date: Title: Tit	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safet requirements as identified in Title 10 C Site Lead or Operations Manager (if in Comments: Signed by: Safety and Health Manager (if necessory)	□ is □ is not required. s □ is not required. Title: rogram ety and health program and it meets or exceeds the contractor's safety and Code of Federal Regulations 851, "Worker Safety and Health Program." Tracessary) Date: □ Approved □ Rejected Title:	
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safet requirements as identified in Title 10 C Site Lead or Operations Manager (if I Comments: Signed by: Safety and Health Manager (if necessa	□ is □ is not required. s □ is not required. rogram Title: rogram recessary Code of Federal Regulations 851, "Worker Safety and Health Program." Tracessary) Date: □ Approved □ Rejected ary) Date: □ Rejected	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pre I have reviewed the subcontractor safe requirements as identified in Title 10 C Site Lead or Operations Manager (<i>if in</i> Comments: Signed by: Safety and Health Manager (<i>if necessa</i>	is is not required. s is not required. rogram Title:	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by: Subcontractor Safety and Health Pro I have reviewed the subcontractor safe requirements as identified in Title 10 C Site Lead or Operations Manager (<i>if necessa</i> Signed by: Safety and Health Manager (<i>if necessa</i> Comments:	□ is □ is not required. s □ is not required. Title:	d hea
Site lead or operations manager approval Safety and Health manager approval is Comments: Signed by:	is is not required. s is not required. Title: rogram rety and health program and it meets or exceeds the contractor's safety and Code of Federal Regulations 851, "Worker Safety and Health Program." Innecessary) Date: ary) Approved Rejected Approved Rejected	d hea



Safety and Health Worksheet

Failure to provide information, attachments, or explanations can delay or prevent contract award.

Subcontractor Company Name:

Solicitation Number, if Applicable:

Workers Compensation Experience Modification Rate (EMR)

Attach letter from insurance carrier denoting EMRs for last 3 complete years or stating reason why an EMR has not yet been established (Note: Explanation of lack of EMR is required for those with less than 10 employees)

EMR	EMR	EMR	3-year average

Log and Summary of Occupational Injuries and Illnesses

Attach copies of Occupational Safety and Health Administration (OSHA) Forms 300 and 300A for the last 3 complete years. State reason if OSHA Forms 300 and 300A are not required. Calculate incidence rates as follows: (Number of OSHA Recordable Cases or Days Away From Work Cases x 200,000)/Hours Worked.

Year	Total Hours Worked	Number of Recordable Cases (sum of OSHA Form 300)	Incidence Rate (TRC)	Number of Days Away (Lost Time and Restricted from Work Cases [DART]) (sum of OSHA Form 300)	Incidence Rate (DART)
Total					

DART = Days Away, Restricted, or Transferred TRC = Total Recordable Case

OSHA Citations		
Has subcontractor received any citations from OSHA in the past 3 years?	Yes If yes, attach a copy of each citation received and indicate the type of citation, fines levied, and negotiated settlements or fines paid.	□ No
Written Safety and Health Program		
Does your company have a comprehensive written safety and health program? Does it include specific programs for Respiratory Protection, Confined Space Entry, Medical Surveillance, etc.? Does it meet requirements under 10 CFR 851 as applicable?	☐ Yes If yes, attach a copy of the program manual's table of contents.	□ No
Certifications		
I certify to the best of my knowledge that the above information	ation is true and correct.	
Printed name:	Title:	
Safety and Health Review of Potential Subcontractors LMS 1980 and LMS LMS 2079-3.0	5 2079 Instructions (LMS/PRO/S25325) age 1 of 1	January 29, 2023

Example of 10 CFR 851, Fit for Duty Evaluation (Employee/Subcontractor) (LMS 2115)



10 CFR 851, Fit for Duty Evaluation (Employee/Subcontractor)

Please carefully read the instructions on the last page before completing this form.

Do <u>not</u> include personally identifiable information on this form, such as a personal phone number or email address.

<u>A current job description must accompany this form.</u> One can be obtained from the employer's Human Resources department. Submitting this form without a job description may delay processing.

Date:	Company:			Job site location:			
Check one	\therefore New hire	Return to work] Routine review	🗆 Change in je	ob duties	□ Subco	ontractor
		Emj	oloyee Informati	ion			
Name:		Work phone:		Work email:			
Job title: _		Office/	Field (% of time spe	ent in each): Office		% Field:	%
		Function	al Manager Info	rmation			
Name:		Work phone:		Work email:			
Evortional la	wals are as outlined in th	Phys	sical Requireme	nts Iofinad in their Distin	nony of Or	ounational Title	0
(Choose the	exertional level that will	be representative of m	ost tasks the employ	ee will likely perform	nary 01 00 .)	cupational fille	8.
Sedentary:	Work involves exerting pull, or otherwise move involve walking or stan required only occasion	up to 10 pounds of for objects, including the ding for brief periods o ally, and all other sede	ce occasionally or a human body. Seden f time. Jobs may be ntary criteria are me	negligible amount of tary work involves si defined as sedentary t.	force frec tting most when wa	uently to lift, ca of the time but lking and stand	rry, push, may ing are
Light:	Work involves moving a negligible amount of though the weight lifted significant degree of wi the weight of the mater an industrial setting, is	objects by exerting up force constantly. Physi I may be only a negligi alking or standing, (2) ials is negligible. (The physically demanding	to 20 pounds of force cal demand requirer ble amount, a job/oc mostly sitting while p constant stress and of a worker even the	e occasionally, or up nents are in excess of cupation is rated for ushing or pulling arm strain of maintaining pugh the amount of fo	to 10 pou of those fo light work or leg co a product prce exert	nds of force free or sedentary wor when it requires ntrols, or (3) wo ion-rate pace, e red is negligible	quently, o k. Even s (1) a rking whe specially).
Medium:	Work involves moving an above-negligible an light work.	objects by exerting 20 nount and up to 10 pou	to 50 pounds of force inds constantly. Phys	e occasionally, or 10 sical demand require	to 25 pou ments are	nds of force free in excess of the	quently, o ose for
Heavy:	Work involves moving demand requirements	objects by exerting 50 are in excess of those	to 100 pounds of for for medium work.	ce occasionally or 25	pounds o	of force constan	tly. Physic
Very Heavy	Work involves moving	objects by exerting 100 are in excess of those) pounds of force occ for heavy work	casionally or 50 pour	ids of forc	e constantly. Pl	nysical
hysical red	quirements category	(enter the most appl	icable level from a	bove descriptions):			
🗌 Cli	mbing steps		nged walking or stan	ding	🗆 Vis	ual acuity:	
🗆 Fir	ne motor movements	Reac	hing or working abov	e shoulder height		Accurate dista	nce visio
🗌 He	avy computer use	🗌 Repe	ated pushing and pu	lling		Accurate near	vision
🗌 Pro	olonged hand squeezing	(tools) 🗌 Sharp	audio acuity			Depth percept	ion
🗌 Pro	olonged sitting	□ Other	(Detail in "Comment	ts" field below.)		Color percepti	on
comments:							
Occupational M	edical Program (LMS/PRO/S160	136)					



10 CFR 851, Fit for Duty Evaluation (Employee/Subcontractor)

			Work Hazards			
The fo	llowing abbreviations are used	d in this section:				
٩TV	all-terrain vehicle	HAZWOPER	Hazardous Waste Operations and Emergency Re	sponse	mg/m ³	milligrams per cubic meter
c	cubic centimeter	LO/TO	lockout/tagout		µg/m³	micrograms per meter
IBA (decibels A-weighted	max	maximum		UTV	utility task vehicle
	cubic centimeter decibels A-weighted marked with an asterisk (* ininig requirements. Bold i hation not captured elsewh ck all that apply or are tiological (specify): chemical use* (activity): compressed gas cylinders* concrete work* confined spaces* Driving/travel required Operating ATVs or UTVs* Foreign travel Operating motor vehicle Prolonged riding in motor ve Drilling or Geoprobe Electrical (<50 volts) irgonomic* (e.g., repetitive taaardous atmospheres* dazardous energy or LO/TC lazardous material expose Asbestos* (> exposure limi Arsenic Beryllium	LO/TO max () typically requirements may requirements may requirements may requirements anticipated:	lockout/tagout maximum ire training before performing the work. Contactive specific medical monitoring requirements. It is specific medical monitoring requirement monitoring requirements. It is specific monitoring requirement monitoring requirements. It is specific monitoring requirement monitoring requirements. It is specific monitoring monitor monitoring monitoring monitoring monitoring monitoring monitor	ct the Lean Use the "C osure limit m Powe Powe Radio Scaffo Scaffo Silica level o (n Temp Silica level o (n Worki Worki Worki Worki above	μg/m ³ UTV ning and omment nore than red indu orklift logical* /dust* (f 25 μg/m activity): erature 85 °F [ibratory ng after ng alone ng at he adder ing at he sea leve ng over	micrograms per meter utility task vehicle d Development department ts" field to supply pertinent 1 30 days per year) istrial trucks* Work assist vehicle (Morgantown) Exposure at or above action n ³ 30 or more days per year)
L	Arsenic Beryllium		Respirator (including N-95): Type (specify):		ng over ing with	or near water
Г	Lead* (>0.025 mg/m ³ more)	than 30 days	Own Contractor supplied	- sewa	ne*	r systems containing
L	per vear)	than 50 days	Mask (dust: not N-95 or respirator)			
Г	Cthor:				. <u> </u>	
Com	ments:		Signatures			
	Functiona	l Manager or Sit	ə Lead	Signature	and Date	9
	Inc	lustrial Hygienist		Signature	and Date	9
	Occupatio	nal Medical Coo	dinator	Signature	and Date)
<i>Occup</i> LMS 2	oational Medical Program (LMS/PR 2115-4.0	O/S16036)	Page 2			June 7, 2023



10 CFR 851, Fit for Duty Evaluation (Employee/Subcontractor)

Is a fit-for-duty exam required? ☐ Yes (spec Fit-for-duty exam types: If a fieldwork exam is required, list the spec		
Fit-for-duty exam types: If a fieldwork exam is required, list the spec	ITY TYPE DEIOW) 🗌 NO	
If a fieldwork exam is required, list the spec		
Health Administration standard-specific req	ific types of tests required based on the uirements:	e specific hazards and Occupational Safety and
Exams:*	Other Medical Tests or Services:	
U.S. Department of Transportation	Audiogram	Pulmonary function testing
(Operate commercial vehicle)	Hearing Conservation Pro	ogram 🗌 Silica
High altitude	□ Asbestos	□ Respirator
Medical surveillance	Bloodborne pathogens	Clearance
□ HAZWOPER	Functional capacity exam	Fit test
□ Other:	🗌 🗆 Lead	Other:
*Periodic exam frequency is biennial (exce assist vehicle, which are annual, and silica Specify if other frequency: Notes:	pt for the Defense Related Uranium Min a, which is triennial).	es and medical surveillance exam for the work
	Instructions	
Contact information, including telephone n form. If the employee does not have a Leg contact information in an encrypted email This form may be signed and dated electro occupational medical coordinator and the The employee's current job description mu	umber and email address, must be lacy Management email address or to the occupational medical coordina prically, or it may be printed, signed industrial hygienist who are support ust be submitted with this form. Cont	provided for the employee referenced in thi telephone number, send their personal ator. and dated, scanned, and emailed to the ing the project work identified on this form. tact the appropriate Human Resources
department for a copy of the associated jo	b description or job posting.	
	completed form make changes as i	a second second to a la structure (in a second second to the
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical	OccMed@lm.doe.gov, and commun coordinator.	needed, sign it electronically, and email it to nicate specific monitoring or surveillance
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical The occupational medical coordinator sho required, and schedule them as appropriat	OccMed@Im.doe.gov, and commur coordinator. uld review the form, determine if occ te.	cupational medical exams or services are
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical The occupational medical coordinator sho required, and schedule them as appropriat	OccMed@Im.doe.gov, and commur coordinator. uld review the form, determine if occ	needed, sign it electronically, and email it to nicate specific monitoring or surveillance cupational medical exams or services are
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical The occupational medical coordinator sho required, and schedule them as appropriat	OccMed@Im.doe.gov, and commur coordinator. uld review the form, determine if occ	needed, sign it electronically, and email it to nicate specific monitoring or surveillance cupational medical exams or services are
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical The occupational medical coordinator sho required, and schedule them as appropriat	OccMed@Im.doe.gov, and commur coordinator. uld review the form, determine if occ te.	needed, sign it electronically, and email it to nicate specific monitoring or surveillance cupational medical exams or services are
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical The occupational medical coordinator sho required, and schedule them as appropriat	OccMed@Im.doe.gov, and commur coordinator. uld review the form, determine if occ te.	cupational medical exams or services are
The industrial hygienist should review the the Occupational Medicine department at requirements to the occupational medical The occupational medical coordinator sho required, and schedule them as appropriat	OccMed@Im.doe.gov, and commur coordinator. uld review the form, determine if occ te.	cupational medical exams or services are

Example of *Training Equivalency Evaluation* (LMS 2177)



Training Equivalency Evaluation

worker name:	Request date:
Employer:	
Equivalency requested for course code:	
Course title:	
Equivalency justification is based on:	
List attached documentation:	
LMS Approv	als
Manager (when applicable)	Signature and Date
Reasoning/special requirements	
Subject matter expert/manager (when applicable)	Signature and Data
eubjeet mater experimanager (when appleade)	Signature and Date
Reasoning/special requirements	
Learning and Development Manager (or designed)	Cignotium and Data
Learning and Development Manager (or designee)	Signature and Date
Reasoning/special requirements	
Database En	try

Example of *Training and Meeting Attendance Sheet* (LMS 1720)



Training and Meeting Attendance Sheet

Site name or location:			
Course code:	Course or meeting title:		
Date(s) presented:		Start time:	End time:
Instructor(s) or facilitator(s) name:		Instructor or facilitator organization:	
Attendees:			

Last Name Must be legible to	First Name	Signature	,	Company Name or Organization	Pass or Fail (For training courses only, to be completed by instructor or facilitator)
Instructors/facilitators:					
	Print	name		Signature	Date
-	Print	name		Signature	Date
Learning and Development Po LMS 1720	licies and Procedures Manu	al (LMS/POL/S15034)	Page 1 of 3		August 31, 2021



Training and Meeting Attendance Sheet

Last Name		Signature	Company Name or Organization	Pass or Fail (For training courses only, to b completed by instructor or
				facilitator)
		1	1	
earning and Development F MS 1720	Policies and Procedures Man	ual (LMS/POL/S15034) Page 2 of 3		August 31 - 20



Training and Meeting Attendance Sheet

Last Name Must be legible to	First Name	Signature	Company Name or Organization	Pass or Fail (For training courses only, to be completed by instructor or facilitator)

Training Attendance Sheet Instructions

- 1. Course code: Record the course code as assigned by the instructor. If this sheet is used to document an organization's internal training, place NA on this line.
- 2. Course title: Record course title associated with the course code.
- 3. Attendees: Record the appropriate information as asked.
- 4. All instructors/facilitators sign and date form.
- 5. Instructors/facilitators are required to promptly forward attendance sheets and associated training documents to the Learning and Development department for data entry and record retention. Email to Learning@im.doe.gov.

Learning and Development Policies and Procedures Manual (LMS/POL/S15034	.)
LMS 1720	

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August 31, 2021

Page B-73

Example of *Pre-Job Brief/Safety Meeting Attendance Record* (LMS 1554)



Date:

Pre-job Brief/Safety Meeting Attendance Record

Project:

Job Safety Analysis:

Location:

Procedure Title:

Briefing performed by:

Description of the work scope (*authorized work, roles and responsibilities, changed conditions, training requirements, hold points, quality requirements, and environmental requirements, as applicable):

Che	eck the specific items below covered during the briefing (*Items	are ma	andatory for initial pre-job brief.)	
Ge	neral Hazards	Yes	Equipment 🗌 NA	Yes
1.	Fall potential, floor opening, and elevated work		1. Aerial lift	
2.	Wildlife or biting or stinging insects		2. Ladder	
3.	Heat or cold stress (assessments or monitoring)		3. Forklift or telehandler	
4.	Sharp objects		4. Crane	
5.	Area access or egress		5. Chain fall or come-along	
6.	Weather conditions (wind > 25 mph, lightning, rain, snow, fire danger, etc.)		6. Scaffold	
7.	Pinch points		7. Earth-moving equipment	
8.	Manual lifting		8. Rotating equipment (drilling or other)	
9.	Elevated noise > 85 dBA		9. Hand tools	
10.	Overhead hazards		10. Power tools	
11.	Traffic (control worker or protection flagger)		11. Dump truck	
12.	Maintain good housekeeping		12. Compacting equipment	
13.	Nearby storm drains, streams, ponds, or wetlands; runoff control		13. Bucket truck	
14.	Spills and releases		14. Mowing or lawn equipment	
15.	Waste generation		15. Snow removal equipment	
16.	Other:		16. Geoprobe operations	
EQ mea	UIPMENT BEST MANAGEMENT PRACTICES - Durin eting industry best practices will be put into place. Examples bility clothing, two-way radios and cameras, and other devic	ng any includ	activity involving the use of heavy equipment, positive contribed by are not limited to, safety observers, exclusion zones, he tenhance operator situational awareness.	ols igh-

Integrated Work Control Process (LMS/POL/S11763) LMS 1554

Page 1 of 3

April 14, 2021



Pre-job Brief/Safety Meeting Attendance Record

Utilities/Electric		NA	Yes	Permits 🛛 🗌 NA	Yes
1. Electric shock potentia	al			1. Confined space entry permit	
2. Electric arc flash pote	ntial			2. LO/TO Specific Equipment Plan (SEP)	
3. Overhead or buried ut	tilities			3. Penetration permit	
4. Other hazardous ener	gy or utilities			4. Safe work permit (i.e., hotwork)	
5. Lockout/tagout (LO/T	C)			5. Lift plan or rigging plan	
Ground fault circuit int proper ground	errupter (GFCI) protected a	nd		6. Radiological Work Permit (RWP) No.	
7. Disconnected, air gap	ped, and zero energy				
Chemical and Radiolo	gical Hazards	NA	Yes	Excavation or Backfill	Yes
1. Hazardous chemicals				1. Excavation access and egress	
2. Compressed gas cylir	nders			2. Excavating and backfill equipment	
3. Flammables and com	bustibles			3. Underground and overhead utilities	
4. Radiation dose and/or	r radiological contamination			4. Shored, sloped, benched, or trench box used	
5. Safety data sheets av	ailable and reviewed *			5. Daily inspection by competent person	
Ergonomics		NA	Yes	Emergency Preparedness	Yes
1. Hand-arm or whole-bo	ody vibration			1. Fire extinguisher needed and checked *	
2. Repetitive task				2. Communication (radio, phone, etc.) *	
3. Lifting more than 50 p	ounds			3. First aid kit location: *	
4. Body positioning				4. Portable eye wash or shower	
5. Proper lifting techniqu	e			5. Map to nearest emergency facility *	
		Ć		6. Discussion on pause or stop work authority *	
				7. Escape routes and assembly areas *	
Personal Protective	Equipment	7			
☐ Hard hat	Eve or face protection	Тг	Gloves	Safety shoes	
Fall protection	Hearing protection	F	l Other		
Specific Hazard Con		ling	Evno	- ionaan/Commonts/Questions/Concerns/Suggesti	ne:
Integrated Work Control Process (I LMS 1554	LMS/POL/S11763)			age 2 of 3 Ap	ril 14, 202



Pre-job Brief/Safety Meeting Attendance Record

Date	Attendee Printed Name	Initials	Date	Attendee Printed Name	Initial
	1				
					_
					_
					_
					_
					_
		-			_
					_
		_			
					_

Example of *Truck and Equipment Inspection Checklist* (LMS 2621b CON)



Truck and Equipment Inspection Checklist

Equipn Mileage	ment type:Make: je:Hours:Identifying	Moo g number:	del:						Ye	ear:		
	Condition of items must meet manufactures specifications:	P = Pass	F = Fail		NA = I	Not ap	plicat	ole		Defic (see p	iency age 2)	Date corrective action
Inspect	tion item		Mon	Tue	Wed	Thur	Fri	Sat	Sun	Yes	No	completed
1.	No fluid leaks were discovered					Č.,						
2.	Fluid levels are correct (oil, coolant, steering, brake, hydraulic, and t	uel)										
3.	Wheels are in good condition and lug nuts are intact											
4.	Tires, treads, or tracks are in good condition and tire pressure is con	rect										
5.	Spare tire and tread are in good condition and tire pressure is corre	ct										
6.	Undercarriage is free of excessive mud, debris, and damage											
7.	Hoses and belts (no cracks), battery, and cable are in good conditio	n										
8.	Steering and operating controls are functioning correctly											
9.	Headlights (high and low beams), tail lights, and brake lights work c	orrectly										
10.	Turn signals and hazard lights work correctly											
11.	Brakes and parking brake are functioning correctly											
12.	Rear view and side mirrors are present and free of cracks											
13.	Windows are in place and free of cracks											
14.	Wipers are operational and washer-fluid level is appropriate											
15.	Horn and backup alarm work correctly											
16.	Fire extinguisher is present with current inspection tag											



Truck and Equipment Inspection Checklist

17. Air conditioner works correct	tly									
18. Heater and Defroster work c	orrectly									
19. Seat belts, door locks, and la	atches are functional									
20. Interior is clear of debris and	tools are secured									
21. Hydraulic controls are function	onal, and hoses are in good condition									
22. Rollover protection system is	s present and functional									
23. Other:										
Inspector initials										
Item number		Deficiency	,		J		, , , , , , , , , , , , , , , , , , ,			
Equipment, implements, and attack	nments inspected (list equipment ma	nufacture, model i	ıumbe	r, and	descr	iption	ı)			
2.										
3.										
Deficiencies: ☐ Yes ☐ No Explanation:	Number of deficiencies:		_Corr	ection	date:					
LMS Inspector name:	Title:		Signatu	ıre:					Date:	

Example of *Request to Bring Radioactive Sources Onto an LM-Controlled Site* (LMS 2038)



Request to Bring Radioactive Sources Onto an LM-Controlled Site

Click or tap here to enter text.	Telephone	: Click or tap h	ere to enter text.
Responsible individual's name: Click or tap here	e to enter text.		
Source Description			
sotope: Click or tap here to enter text.	Activity: Click or tap he	re to enter text.	
nstrument (equipment) Identification Number (if	it contains a source): Click or tap here t	to enter text.	
Classification			
Accountable:	Nonaccountable: 🗆		
Туре			
Sealed:	Unsealed: 🗆	*	
A source integrity test was performed: Yes	No 🗆		
Attach a copy of test to this form; test shall be cu	urrent in accordance with the licensee's	approved nuclea	r materials license.
Expected duration of use of the source on the LM	A-Controlled site: Click or tap here to ent	er text.	
Expected duration of use of the source on the LM	A-Controlled site: Click or tap here to ent	er text. Date:	Enter date.
Expected duration of use of the source on the LM	A-Controlled site: Click or tap here to ent	er text.	Enter date.
Expected duration of use of the source on the LM Requester:	A-Controlled site: Click or tap here to ent (print and sign name) Group	er text.	Enter date.
Expected duration of use of the source on the LM Requester:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes \No	er text. Date:	Enter date.
Expected duration of use of the source on the LM Requester:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes D No	er text. Date:	Enter date.
Expected duration of use of the source on the LM Requester: To be completed by the Radiation Protection Permission is given to bring the source on site: Restrictions or requirements: Click or tap here to	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes \Quad No e enter text.	er text. Date:	Enter date.
Expected duration of use of the source on the LM Requester: To be completed by the Radiation Protection Permission is given to bring the source on site: Restrictions or requirements: Click or tap here to	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes No enter text.	er text. Date:	Enter date.
Expected duration of use of the source on the LM Requester: To be completed by the Radiation Protection Permission is given to bring the source on site: Restrictions or requirements: Click or tap here to Radiological Control Manager:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes \QNo e enter text.	er text. Date:	Enter date.
Expected duration of use of the source on the LM Requester:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes \Quad No enter text. (print and sign name)	er text. Date: Date:	Enter date.
Expected duration of use of the source on the LM Requester:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes No e enter text. (print and sign name)	er textDate:Date:	Enter date.
Expected duration of use of the source on the LM Requester:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes No enter text. (print and sign name) File	er text Date: Date: Date: Index No	Enter date.
Expected duration of use of the source on the LM Requester: To be completed by the Radiation Protection Permission is given to bring the source on site: Restrictions or requirements: Click or tap here to Radiological Control Manager:	A-Controlled site: Click or tap here to ent (print and sign name) Group Yes \Quad No o enter text. (print and sign name) File	er text Date: Date:	Enter date.

Exhibit 1

Job Safety and Health Poster



JOB SAFETY AND HEALTH: WORKER PROTECTION



IT'S THE LAW!

EMPLOYEES Have the right to:

- DOE safety and health publications;
- The worker safety and health program for their location;
- This safety and health poster;
- Copies of their medical records and records of their exposures to toxic and harmful substances or conditions; and
- Results of inspections and accident investigations.
- · Express concerns related to worker safety and health;
- Decline to perform an assigned task because of a belief that the task poses an imminent risk of death or serious physical harm;
- Stop work in imminently dangerous conditions; and
- Anonymously request an investigation.

EMPLOYERS Must:

- Establish a written Worker Safety and Health Program;
- Use qualified worker safety and health staff;
- Provide mechanisms to involve workers and their employeeauthorized representatives in developing the safety and health program;
- Establish procedures for workers to report without reprisal job-related hazards and for prompt response to such reports;
- Provide for regular communication with workers about workplace safety and health matters; and
- Display this poster in the workplace where it is accessible to all workers.

How to Request an Investigation:

Employees have the right to request, anonymously if desired, the Office of Enterprise Assessment's Office of Enforcement to conduct an investigation of potential regulatory violations. Employees can make the request at:

www.energy.gov/ea/request-investigation-or-inspection-safety-orclassified-information-security-violations

DOE encourages employees to use local employee concerns processes before requesting an enforcement investigation.













For more information, contact:

Brian Stewart (202) 586-3751 Brian.Stewart@Im.doe.gov

Exhibit 1, Page 1

Exhibit 2

COVID-19 Health Screening for Site or Facility Access



COVID-19 HEALTH SCREENING FOR SITE OR FACILITY ACCESS

As of November 9, 2022

SITE/FACILITY ACCESS REQUIREMENT—PLEASE READ BELOW

INSTRUCTIONS

The purpose of this form is to reduce the risk of having our sites or facilities accessed by someone who is symptomatic or has tested positive for COVID-19.

- 1. Every person requesting site or facility access shall review the screening statements below upon initial entry each day in which site access is requested.
- If you cannot answer "no" to all the screening statements, do not enter the site or facility. Contact your supervisor to let them know you cannot gain access to the site or facility because you do not pass the health screening criteria.
- 3. Guards or facility access control persons will have vendors, suppliers, subcontractors, and visitors read the screening statements. Any response in the affirmative will disallow access.

SITE ENTRY PROTOCOL

All U.S. Department of Energy personnel, contractors, subcontractors, vendors, suppliers, and visitors are required to read scenarios A–C. If any of the below scenarios apply to you, then you are not authorized to perform work at or visit this location until an evaluation of your answers has been conducted by your supervisor or visit sponsor and the Safety and Health occupational medical coordinator. The occupational medical coordinator will then contact you for follow-up. Re-entry to this location and any other LM site/office will be allowed per direction of the occupational medical coordinator.

<u>If none of the scenarios below apply</u>, please present a valid ID authorized by the REAL ID Act of 2005 and you will be signed in to conduct your work or visit. Social distancing practices are encouraged whenever possible.

COVID-19 Symptoms

- Fever—100.4 degrees Fahrenheit or above
- Cough that is new or worsened from normal
- Shortness of breath or difficulty breathing
- New-onset muscle pain or body aches
- Fatigue
- New-onset headache

- Chills or repeated shaking with chills
- Sore throat
- New-onset loss of taste or smell
- Congestion or runny nose
- Nausea and/or vomiting
- Diarrhea

COVID-19 Screening Statements – (AII statements (A–C) **must be negative** for site access unless you have recovered from a COVID-19 infection during the previous 10 days **and** been cleared by the occupational medical coordinator to return to the office/site*):

All Persons Regardless of Vaccination Status:

- A. You have tested positive for COVID-19 in the past 10 days.
- B. You have had any of the symptoms listed above in the past 10 days or it has been greater than 10 days since symptom onset, but one or more of the symptoms is not improving (exception is loss of taste and/or smell, which may persist well beyond 10 days).
- C. You have had a fever (temperature >100.4 degrees Fahrenheit) within the last 24 hours.

*In addition to being cleared, you must also wear a mask while in the office regardless of community transmission levels if you have had any symptoms of or tested positive for COVID-19 in the previous 10 days.

Page 1 of 1

Section 01100: Special Project Procedures

Part 1—General

1.1 Scope

This section describes the following project-specific requirements and procedures.

- A. Inspections
- B. Project Meetings
- C. Project Construction Schedule

1.2 Related Work

Division 1 and 2 of these specifications.

1.3 Submittals

- A. Submittals shall be made in accordance with Section 01300: Submittals.
- B. Submittals shall be made for proposed substitutions.
- C. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- D. Submit initial project schedule per Article 3.2A1 of this section with project proposal.
- E. Submit baseline project schedule per Article 3.2A2 of this section within 10 days following Notice of Award.
- F. Submit recovery plan per Article 3.2A3 of this section when work is behind schedule.
- G. Submit schedule revisions/updates per Article 3.2A4 of this section prior to implementation.
- H. Submit 3 week look ahead schedule per Article 3.2A5 of this section no later than 24 hours prior to scheduled weekly job status meetings.

Part 2—Products

(Not Used)

Part 3—Execution

3.1 Project Meetings

- A. Subcontract Kickoff Meeting
 - 1. Three days following the issuance of notice of award a subcontract kickoff meeting will be held.
 - 2. Authorized representatives of the subcontractor including project manager and site superintendent, and lower-tiered superintendents shall be in attendance.
 - 3. Information about the following items will be discussed:
 - a. Introduction of contractor and subcontractor key personnel.
 - b. Subcontract type, special provisions and invoicing requirements
 - c. Submittal procedures and submittals required prior to notice to proceed
 - d. Project construction schedule, work hours, and overtime anticipated, including sequence of critical work.
 - e. Other required documentation for notice to proceed
- B. Safety Collaboration Meeting
 - 1. Within 10 days of notice of award, a safety collaboration meeting will be held in accordance with Section 01020: Safety and Health.
- C. Preconstruction Meeting
 - 1. Following subcontractor receipt of the notice to proceed and no later than 1 week prior to subcontractors start of field work, the contractor will hold a preconstruction meeting with the subcontractor.
 - 2. Information about the following items will be distributed and/or discussed.
 - a. Three-week project scheduled look ahead
 - b. Procedures for submittal of field question forms, change orders, and field decisions.
 - c. Health, safety, and security requirements such as: safety and health plans, job safety analysis, emergency actions, lockout/tagouts, safe work permits, quality control, housekeeping, channels and procedures for communications, postings, etc.
 - d. Quality control.
 - e. Plan of the day implementation.
 - f. Visiting regulatory agencies.
 - g. Restricted areas/authorized access/project areas.
- D. Daily Safety Meetings

Daily meetings between the contractor and subcontractor will be held. These meetings will take place each morning to review the scope of the upcoming day's activities, communicate hazards, resolve safety and health and operations concerns,

and discuss schedule and future activities. Issues or concerns noted on the previous days will be discussed.

E. Plan of the Day

Contractor, in conjunction with the subcontractor, will prepare a plan of the day which will list all activities that will be planned for the project for that duration of time. The contractor's *Plan of the Day/Plan of the Week* form (LMS 2130) will be reviewed with the subcontractor during the daily safety meetings and subcontractor personnel will sign off on the form prior to work being allowed to commence.

- F. Weekly Status Meeting
 - 1. Weekly status meetings will be conducted between the contractor and subcontractor. Meetings will be held on the same day and at the same time each week. The pre-construction conference will kick-off the weekly status meetings. Contractor's STR will be responsible for scheduling and facilitating the weekly status meetings; preparing and managing the meeting agenda; and completing the meeting minutes. A copy of the meeting minutes will be provided to subcontractor for concurrence. Subcontractor's site superintendent, with the authority to act on behalf of the subcontractor, shall be in attendance at every meeting.
 - 2. At a minimum, the following items will be discussed at the weekly meetings.
 - a. Review of applicable specifications for work to be conducted in the near future.
 - b. Review of field questions and dispositions, summary of changes, and change orders.
 - c. Review of safety or permit issues and requirements.
 - d. Review of planned equipment and personnel for the upcoming week.
 - e. Review of weekly progress and production.
 - f. Review of submittal status.
 - g. Review of 3-week look-ahead schedule.
 - h. Review of issues or concerns related to upcoming work.

3.2 Schedules

- A. Project Construction Schedules
 - 1. An initial project construction schedule shall be submitted with the cost proposal. The initial project schedule shall include, at a minimum, all tasks as listed in the General Construction Sequence in Section 01010: Statement of Work, Article 3.3. The use of Primavera P6 software is encouraged but not required for the initial project schedule submitted with the cost proposal. After the notice of award, a more detailed baseline schedule prepared using Primavera P6 (or contractor approved equivalent) is required.

- 2. A baseline schedule shall be submitted within 10 calendar days following the notice of award. The baseline schedule shall include a complementary and detailed narrative description of the subcontractor's plan for performing the work. The narrative description shall summarize equipment and personnel requirements by craft on a completed resource loaded schedule using Primavera P6 software or contractor approved equal.
- 3. Upon approval by contractor of the subcontractor's baseline schedule, subcontractor shall be responsible for maintaining such baseline schedule. If at any time subcontractor's work is behind schedule, the subcontractor shall submit a recovery plan for getting the work back on schedule. The plan shall be subject to review and approval by contractor.
- 4. Subcontractor shall promptly inform contractor of any proposed change in the baseline schedule and narrative and shall furnish contractor with a revised baseline schedule and narrative within 10 calendar days after approval by contractor of such change. The baseline schedule and narrative shall be kept up to date, taking into account the actual work progress and shall be revised, if necessary, every 30 calendar days. The revised baseline schedule and narrative shall, as determined by contractor, be sufficient to meet the requirements for completion of any separable part and all of the work as set forth in this subcontract. Revisions shall not modify milestone schedule dates except to reflect subcontract change orders or amendments.
- 5. Subcontractor shall also provide a 3-week look-ahead schedule of all planned work to be performed for every 3 weeks period of performance in sufficient detail to enable the tracking of day-to-day field activities to include daily labor needs separated by craft, equipment and materials needed for a particular day. This schedule shall be provided to contractor no later than 24 hours prior to scheduled weekly job status meetings.
- B. Project Construction Schedule Format (or as approved by Contractor)
 - 1. The project construction schedule shall consist of a time-scaled Gantt bar chart that depicts proper restraints, activity durations, total float, free float, and planned and actual start and completion dates for each schedule activity and milestone. Schedule shall include, at a minimum, all tasks as listed in the TSSS, Article 3.1.
 - 2. The bar chart shall show logic lines displaying the relationship of all tasks.
 - 3. Schedules shall be in a black and white reproducible form. Minimum sheet size shall be 11 by 17 inches (ANSI B size).
 - 4. The project construction schedule shall have a horizontal time scale and shall identify the first workday of each week, from start of work through subcontract completion.
 - 5. The project construction schedule shall provide a complete sequence of the project by activities.
 - 6. Lower-tier subcontractor schedules shall be included and identified in coordination with the project construction schedule.

3.3 Inspections

- A. At the completion of this project, subcontractor's site supervisor shall attend the final inspection to document any deficiencies in the completed project. A *Notice of Final Completion Inspection* form (LMS 2607CON) will be completed by the contractor, with one copy delivered to the subcontractor. Form is attached to this section.
- B. The subcontractor may request an unofficial inspection of work items at the time of initial completion. The outcome of unofficial inspections will not be accepted as verification of compliance with the subcontract requirements in lieu of final inspection.

End of Section 01100



Site:	Project:	
	Legacy Manage	ement Support Services Contract
Subcontracto	n	Subcontract No:
Construction	Start Date:	Construction Completion Date:
Final/No to be cor	Variances: The work tasks and a nplete under the terms and conditi	activities under this subcontract are certified by the undersigned ions of the subcontract documents.
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Section 01200: Environmental Compliance

Part 1—General

1.1 Scope

This section describes the following project-specific requirements and procedures:

- A. Environmental Management System (includes Waste Management; Waste Reduction, Recycling, and Disposal; Reporting; and Spill Prevention and Response)
- B. Cultural Resources
- C. Fugitive Dust Control
- D. Site Water Management
- E. Site-Specific Environmental Requirements

1.2 Related Work

Division 1 of these specifications.

1.3 Submittals

- A. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- B. Submit information on all materials that were reused, recycled, or disposed of, and denote the weight or volume of each in accordance with Article 1.4C of this section.
- C. Submit total water volumes and associated costs obtained from offsite sources in accordance with Article 1.4C of this section within 2 weeks of project completion.
- D. Submit total fuel use volumes, types, and usage for generator or nonfleet vehicles and equipment in accordance with Article 1.4C of this section within 2 weeks of project completion.
- E. Submit Notification of Demolition and Renovation/Abatement Form to the Ohio Environmental Protection Agency (OEPA), Division of Air Pollution Control at least ten working days prior to the start of demolition activities.

1.4 Environmental Management System

In accordance with U.S. Department of Energy (DOE) Office of Legacy Management (LM) Environment, Safety, and Health Policy and Environmental Management System, all subcontractors performing work for LM through its Legacy Management Support (LMS) contractor (hereinafter called "the contractor") shall follow safe and environmentally sound work practices. Work shall be conducted in a manner that protects workers and the public; complies with DOE directives; and complies with all applicable federal, state, local, and tribal regulatory requirements, agreements, and permits under the LM contract. In addition, work shall be conducted in a manner that provents pollution, minimizes wastes, and conserves natural and cultural resources to the extent that such activities are technically and economically feasible. Subcontractor personnel are responsible for informing the contractor of any unsafe or environmentally unsound conditions, and subcontractor

personnel have the authority to stop work without fear of reprisal if necessitated by such conditions.

A. Waste Management

The subcontractor shall properly manage all nonhazardous and hazardous waste that it generates. The site shall be kept clean and orderly at all times, and the subcontractor shall clean up debris and waste material from the site daily. Construction debris and nonhazardous waste material shall be disposed of in a receptacle provided by the subcontractor *(unless provided by the contractor)*. The subcontractor shall immediately notify the contractor if any hazardous waste, universal waste, or radioactive waste is suspected or generated outside the scope of the subcontract and follow the contractor's directions to manage the waste. Hazardous waste, universal waste, and radioactive waste shall be managed, including the storage, transport, and offsite disposal of such waste, in compliance with applicable federal, state, and local regulations, DOE directives, and project specifications.

B. Waste Reduction, Recycling, and Disposal

As required by DOE directives, Executive Orders, and other federal guidance, the contractor must meet certain waste reduction and recycling targets, including (1) diverting a minimum of 50% of construction and demolition (C&D) material and debris from landfills through composting, reuse, and recycling; and (2) diverting a minimum of 50% of solid waste from landfills through composting and recycling. The requirements for construction projects are that:

- All subcontractors are encouraged to minimize the waste generated during C&D projects and maximize the amount of material that is reused, salvaged, and recycled.
- Subcontractors should take full advantage of all reuse and recycling programs available.
- All subcontractors must collect (and provide to the Contract administrator) data on (1) the amount of nonhazardous solid waste (excluding C&D material and debris) disposed of, reused, recycled, or composted; and (2) the amount of C&D material and debris disposed of, reused, recycled, or composted.
- C. Reporting

At the end of each quarter and at the completion of the project, the subcontractor shall provide the contractor with a report of all materials that were dispositioned, denoting the weight or volume of each material and whether it was recycled, reused, or disposed of (for subcontractor-provided containers only). Report this data for each management category (reuse, recycle, and disposition) using the

Non-Fleet Fuel, Water, and Waste Tracking form (LMS 1155). Use that form to provide the following information for each management category (reuse, recycle, and disposition): the type of material (glass, metal, plastic, debris, etc.), the weight of each material by type (or volume if weight cannot be obtained), the waste

classification (hazardous, universal, radioactive, solid), and the name of the receiving facility or custodian with any copies of disposition receipts.

At the end of each quarter and at the completion of the project, the subcontractor shall provide the contractor with data on (1) the amount of sustainable products and sustainable services (see Part 2 below) and (2) whether or not all products and services purchased met the sustainable acquisition requirements. When the subcontractor cannot purchase a designated product with either recycled content or biobased/biopreferred status, it shall submit a justification form (contact the Contract administrator for the form) to the contractor to report the comparative prices of the recycled versus the nonrecycled material, the suppliers contacted for product availability, or the specification restricting the purchase. This information, along with the amount of nonsustainable products purchased, shall be provided in a preferable product purchase report to the contract administrator.

The subcontractor shall also track and submit (within 2 weeks of project completion) all water usage, including volume, cost, and source, as well as identification of all water sources used during the project.

The subcontractor shall also track and submit (within 2 weeks of project completion) all fuel usage (e.g., generator fuel, nonfleet equipment fuel), including volume, cost, and use.

D. Spill Prevention and Response

If the subcontractor will store oil or fuel in tanks or containers that are 55 gallons or larger in capacity, secondary containment must be provided. At a minimum, the secondary containment must be impervious (e.g., have a plastic liner), have the capacity to contain the entire contents of the largest container/tank being stored, and comply with applicable federal, state, and local secondary containment requirements.

If onsite oil or fuel storage is in tanks or containers that are 55 gallons or larger in capacity, then the subcontractor must have an approved spill kit onsite at all times, including during refueling activities. This kit must include (at a minimum) basic personal protective equipment, a shovel, plastic bags, plastic sheeting, absorbent pads, bulk absorbent (kitty litter), cloth or paper towels, liquid soap, a scrub brush, a bucket, and a metal or plastic storage container (larger than 10 gallons).

If the subcontractor spills any fluids from equipment operations or maintenance (fuel, hydraulic fluids, coolant, lubricants, cleaning solvents, used oil, etc.), the subcontractor shall immediately notify the contractor and follow the contractor's directions to clean up the spill. Equipment leaks and other types of spills shall be diapered or otherwise blocked to prevent ground surface, soil, or surface water contamination, and the leak shall be immediately stopped, or the equipment shall be replaced. The subcontractor shall clean up and subsequently manage spilled materials and associated wastes (e.g., contaminated soils), including storage, transport, and offsite disposal, in compliance with applicable federal, state, and local regulations at the subcontractor's expense. The subcontractor shall inform the contractor how the spill will be managed prior to storage, transport, and offsite disposal.

Part 2—Execution

2.1 Cultural Resources

If cultural resources or human remains are unearthed during operations, activities near the cultural resource shall cease, and the contractor shall be notified. The subcontractor and the contractor shall protect the items discovered and allow no further site-disturbing activities until the contractor provides written notification to the subcontractor to proceed with work. The subcontractor's onsite manager is responsible for informing all individuals associated with this project that they will be subject to prosecution for knowingly disturbing historic and prehistoric archaeology sites or for collecting artifacts of any kind, including historic items, arrowheads, and pottery fragments.

2.2 Fugitive Dust Control

- A. The subcontractor shall take measures to control visible dust within the construction boundaries and within any other areas where subcontractor activities are being conducted. Subcontractor shall identify all water sources to be used for the duration of the project. If any portion of the project would require usage of water from onsite or nearby water sources, the subcontractor would be responsible for obtaining any applicable permits prior to any water being withdrawn.
- B. The subcontractor shall take necessary measures to suppress visible dust. The subcontractor may use techniques that include the following:
 - 1. Minimizing exposed earth work areas.
 - 2. Enforcing lower speed limits (i.e., 15 miles per hour) on all vehicles traveling within the site.
 - 3. Utilizing a dust suppression misting system such as a cannon, to dampen dust created by construction processes (i.e., dry conditions, concrete cutting). Water used for dust control should be managed so volume and timing of use and potential water run-off does not impact any adjoining waterways.
 - 4. Utilizing a contractor-accepted dust retardant, such as calcium chloride or magnesium chloride.
 - 5. Maintaining adequate moisture content at all times in areas where the preexisting surface has been removed or disturbed and in material that has been stockpiled on the job site so dust shall not be generated.

2.3 Site Water Management

- A. The subcontractor shall control and manage stormwater runoff; water used for dust control; and water from testing, cleaning, and decontamination activities.
- B. The subcontractor shall install temporary drainage systems and sediment controls to control overland flow to minimize sedimentation and to minimize stormwater pollution, as necessary. The subcontractor shall perform regular maintenance of any temporary drainage system as necessary to prevent plugging or reduced capacity.

2.4 Site-Specific Environmental Requirements

A. The subcontractor shall submit a Notification of Demolition and Renovation/Abatement Form to the OEPA, Division of Air Pollution Control at least ten working days prior to the start of demolition activities. The form is a requirement for all demolition projects in the state of Ohio, regardless of size of project. Contact OEPA at: <u>NotificationForm-Revised.pdf (ohio.gov)</u>.

Rainbow Environmental Services (Rainbow) performed an asbestos survey of Building 300 located at 1275 Vanguard Drive in Miamisburg, Ohio, on March 18, 2024. Results of the survey indicated no asbestos containing materials nor suspect materials present in Building 300. In addition, the RSI EnTech, LLC Senior Safety Specialist accompanied Rainbow's certified Asbestos Hazard Evaluation Specialist during the March 18, 2024, survey of Building 300 and did not visually observe any suspect lead-based paint surfaces, mercury-containing switches, smoke detectors, exist signs, or other hazardous-containing materials that warranted sampling. A copy of Rainbow's *Asbestos Inspection* report dated March 18, 2024, is attached for reference.

End of Section 01200

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Section 01300: Submittals

Part 1—General

1.1 Scope

The subcontractor shall provide submittals required by the subcontract documents in accordance with this section and revise and resubmit items, as necessary, to establish compliance with the specified requirements.

1.2 Related Work

Division 1 through 2 of these specifications.

1.3 Submittals

Provide submittals required in Table 01300-1. Subcontractor shall submit only one product proposal to meet a specific use. Contractor will not review multiple proposed products to determine if they will meet specifications.

1.4 General Submittal Requirements

- A. Submittal reviews are required for extensions of design, critical materials, proposed approved equal material substitutions, deviations, equipment that must be checked, compatibility with the entire system, and other items as designated in these specifications that require contractor review.
- B. The contractor's review of submittals shall not be construed as a complete check, but will indicate only that the general method of construction, materials, detailing, and other information are satisfactory. Review will not relieve the subcontractor of responsibility for any error or defect in the work. The subcontractor, under the quality control requirements of this subcontract, shall be responsible for dimensions, the design of adequate connections and details (not specified by the contractor or subcontract documents), and the satisfactory construction of all work. After submittals are reviewed by the contractor, no resubmittal for the purpose of substituting materials or equipment will be considered unless the submittal is accompanied by a written explanation of why a substitution is necessary.
- C. The requirements specified in this section are supplemental to the requirements specified in the *Terms and Conditions for Construction Subcontracts* and any requirements specified in other sections.
- D. All submittals shall be legible, reproducible, and in the English language.
- E. All submittals shall be submitted directly to the contractor from the subcontractor. Submittals directly from lower-tier subcontractors, suppliers, or manufacturers will not be accepted.
- F. The subcontractor shall provide submittals far enough in advance of scheduled installation dates to provide time required for reviews, securing necessary

acceptance, possible revisions and resubmittals, and for placing orders and securing delivery. If the subcontractor response to contractor questions and comments regarding any submittal is not acceptable, any resulting delays in the project progress are the sole responsibility of the subcontractor and all required actions to accelerate the schedule to correct for delays shall be implemented by the subcontractor at no additional cost to the contractor.

G. Unless otherwise specified, allow 5 working days for review by the contractor following receipt of the original submittal and any subsequent resubmittal or modifications of previously accepted submittals.

The subcontractor shall submit all submittals through Procore. The contractor will provide login information to subcontractor at time of subcontract award.

If subcontractor requires assistance, the Procurement Data Management Clerk (PDMC) is available at <u>contractsubmittals@lm.doe.gov</u>.

- H. The contractor will return one copy of the submittal as an attachment to the contractor's review comments. The subcontractor may make and distribute copies as needed.
- I. The subcontractor shall use the submittal identification number indicated in Table 01300-1. Submittals shall satisfy the following requirements:
 - 1. Each submittal shall be referenced to the appropriate sheet number and detail; and specification section and paragraph to indicate compliance with the subcontract documents.
 - 2. Submittals shall follow the following numbering system:
 - 3. 001-00 First submittal with the submittal number
 - 4. 001-1 Revision of original submittal
- J. The subcontractor shall notify the contractor in writing at the time of submittal of deviations in submittals from requirements of the subcontract documents. The contractor reserves the right to accept or reject deviations from the subcontract documents.
- K. The contractor will clearly label the submittals with one of the following designations and return it to the subcontractor:
 - 1. APPROVED AS NOTED
 - 2. REVISE AND RESUBMIT
 - 3. REJECTED
- L. Submittals returned marked "APPROVED" and "APPROVED AS NOTED" do not constitute a waiver of detailed or specified requirements unless so stated in writing by the contractor.
- M. The subcontractor shall make all corrections required by the contractor and promptly furnish a corrected submittal in the form as specified for the original submittal. No payment for completed work will be made by the contractor until after all relevant and required submittals have been delivered to, and accepted by, the contractor.

1.5 Submittal Quality Control

- A. Prior to each submittal, carefully review and coordinate all aspects of each item being submitted. Review all submittals from lower-tier subcontractors and suppliers for compliance with the subcontract documents. Verify field measurements, field construction requirements, and material certification or identification numbers. Correct defective or incomplete submittals prior to forwarding them to the contractor.
- B. Verify that each item in the submittal conforms in all respects to the specified requirements.
- C. By affixing the subcontractor's signature to each submittal, the subcontractor certifies that this coordination has been performed.

Part 2—Execution

2.1 Submittal List

- A. Table 01300-1 is a list of submittals required by these specifications. The submittals listed in Table 01300-1 include both specific and general types of submittals; for example, Table 01300-1 shows submittal requirements for certifications and product data but does not show all of the specific items for which certifications or product data are required.
- B. If a submittal is not listed in Table 01300-1, but is listed in an individual section, the subcontractor is not relieved from the submittal requirement.

Submittal No.	Specification Reference	Submittal Requirement	Submittal Due*
001	01020 1.4A	Subcontractor's safety and health program or safety plan	Within 1 week of award notice
002	01020 1.4B	Subcontractor JSA	1 week prior to mobilization
003	01020 1.4C	Subcontractor Onsite Time Tracking Upon- Award Submittal form (LMS 2146a)	Within 1 week of award notice
004	01020 1.4C	Subcontractor Onsite Time Tracking Monthly Report (LMS 2146b)	Monthly submittal
005	01020 1.4D	Applicable training records for tasks and equipment operation	1 week before mobilization
006	01020 1.4E	OSHA Competent Person Designation form for specialized work (LMS 2615a)	Before the subcontractor performs work
007	01020 1.4F	OSHA Competent Person Designation form (LMS 2615b)	Before the subcontractor performs work
008	01020 1.4G	First Aid and CPR training evidence	1 week before mobilization
009	01020 1.4H	LMS Hazardous Chemical Inventory form (LMS 1067)	Before materials are brought on site
010	01020 1.41	Personnel proficiency for fall protection, scaffolding, and aerial lift training	1 week before work starts
011	01100 1.3D	Initial project schedule	With proposal
012	01100 1.3E	Baseline project schedule	Within 10 days following Notice of Award
013	01100 1.3F	Recovery plan	When work is behind schedule

Table 01300-1.	Project Submittal List

Submittal No.	Specification Reference	Submittal Requirement	Submittal Due*
014	01100 1.3G	Schedule revisions/updates	Prior to implementation
015	01100 1.3H	3-week look ahead schedule	No later than 24 hours prior to scheduled job status meeting
016	01200 1.3B	List of materials reused, recycled, or disposed	Within 2 weeks of project completion
017	01200 1.3C	Total water volumes and associated costs	Within 2 weeks of project completion
018	01200 1.3D	Total fuel use, volume, types and usage	Within 2 weeks of project completion
019	01200 1.3E	Copy of Notification of Demolition and Renovation/Abatement Form to the Ohio Environmental Protection Agency (OEPA)	Upon sending to OEPA
020	01500 1.3D	List of vehicles and heavy equipment	With proposal
021	01500 1.3E	Fuel Plan (LMS 2623CON)	With proposal
022	02050 1.3D	Landfill and recycling center disposal weight tickets	Within 2 weeks of project completion
023	02200 1.3D	Common borrow material	5 days prior to delivery to site
024	02200 1.3E	Water source	At site mobilization
025	02225 1.3D	Exemption or modification request	1 week prior to planned implementation
026	02225 1.3E	Line locator qualifications	Preconstruction conference
027	02920 1.3D	Topsoil source	1 week prior to delivery
028	02920 1.3E	Seed labels	When seed is delivered to site

Table 01300-1 (continued). Project Submittal List

End of Section 01300

Section 01500: Construction Facilities and Temporary Controls

Part 1—General

1.1 Scope

This section covers the installation, maintenance, and operation of all temporary facilities and controls necessary to support subcontractor and contractor operations during the course of this subcontract. These temporary facilities and controls shall be removed at subcontract completion and include, but are not limited to, drainage facilities, staging areas, access controls, lighting, and utilities.

1.2 Related Work

- A. Division 1 of these specifications.
- B. Section 02050: Demolition and Debris Removal
- C. Section 02200: Earthwork: Excavation, Backfill, and Disposal.

1.3 Submittals

- A. Submittals shall be made in accordance with Section 01300: Submittals.
- B. Submittals shall be made for proposed substitutions.
- C. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- D. Submit list of vehicles and heavy equipment to be used on project prior to commencing the applicable work in accordance with Article 1.13B of this section. Include model, type, and year of equipment and proof of equipment operator's proficiency.
- E. Submit a fueling plan per Article 1.13D of this section with the proposal.

1.4 Field Offices and Supporting Facilities

A. Staging Area and Haul Routes

During the project mobilization phase, the subcontractor shall develop and establish a project staging area. The staging area shall be used for vehicle parking and to place subcontractor facilities, material, laydown yard equipment, storage, and any other temporary items associated with the project.

- 1. The staging area shall be located as shown on the plans for the duration of the project.
- 2. At project completion, remove all facilities, demobilize the staging area, and reclaim to preexisting conditions.
- 3. The subcontractor shall comply with posted speed limits.
- 4. Haul traffic shall comply with all applicable local and state traffic control requirements.

5. Mud Free Site Access: The subcontractor shall provide mud-free conditions at the access/egress locations of the jobsite. The subcontractor shall remove mud from onsite roadways and parking lot on a daily basis, as directed by the contractor.

1.5 Temporary Facility Requirements

- A. The subcontractor shall adequately prepare all surfaces for utility and facility installation and provide adequate stability and durability for the duration of this subcontract.
- B. The subcontractor shall consider the efficient use of space available at the project site and schedule material deliveries, equipment use, and other activities to minimize storage and field facility requirements. The subcontractor may locate, arrange, and lay out the facilities to best suit an efficient operation in coordination with the contractor's current operations.
- C. All facilities and utilities shall be designed and installed to allow uninterrupted service during all seasons.
- D. The subcontractor shall not conduct operations during periods of darkness.

1.6 Project Signs

The subcontractor shall provide all regulatory signage in a protected display at a location determined by the contractor. Subcontractor may post information on a protected surface such as a job storage trailer.

1.7 Access Control / Facilities Protection Fence

A. Access Control Fence

Install access-control fencing, as required; to restrict, reduce, or eliminate access by unauthorized personnel into the project work area. Fencing shall be minimal and only placed around the work areas as delineated on the plans. Access-control fencing shall, at a minimum:

- 1. Be 6 ft in height.
- 2. Chainlink portable fence panels.
- 3. Fencing shall be adequately anchored to prevent toppling.
- 4. "Caution: Construction Area" signs shall be placed on access-control fencing.
- 5. Signs shall be placed at 100-foot intervals.
- B. Facilities Protection Fence

Install protection fencing, as required; to identify and reduce damage to existing facilities as shown on the plans and determined by the contractor. Fencing shall be minimal and only placed around those facilities including monitoring wells, piezometers, electrical power poles, storm drain inlets. Fencing shall, at a minimum:

- 1. Be 4 ft in height.
- 2. Posts set maximum 10 foot on centers.

- 3. High visibility plastic, safety fencing or approved equal.
- 4. Posts and fabric shall be secure and tight at all times.

1.8 Temporary Utilities

A. Water and Sewer

Provide drinking water in accordance with Section 01020: Safety and Health, Article 2.15B.

Subcontractor will be allowed use of the sanitation facilities located in the contractor's on-site job trailer.

B. Electric Service

Subcontractor will be allowed access to electric power at the contractor's on-site job trailer.

If the subcontractor elects to use generators to supply temporary electrical power for facilities, the generators shall be of adequate power to operate the facilities and equipment specified in this section. The generators shall be quiet and not produce noise levels above 85 dBA as defined in 29 CFR 1910.95, Appendix A.

1.9 Weather Protection

- A. The subcontractor shall provide for weather protection as required by site conditions.
- B. The subcontractor shall furnish and install temporary enclosures as needed to protect construction work and materials from damage due to weather or elements, or to maintain suitable temperature during the installation or finishing of work. At all times, the subcontractor shall provide protection against freezing, storms, wind, rain, or heat to maintain work, materials, and equipment free from damage. At the end of each day's work, all work susceptible to damage shall be protected.

1.10 Trash and Debris Control

The subcontractor shall provide and maintain trash receptacles at all times during the execution of this subcontract. The subcontractor shall inspect the work site daily and remove trash/debris that has accumulated daily and properly dispose of it in a subcontractor provided receptacle.

1.11 Delivery and Storage of Construction Materials

- A. The subcontractor shall schedule deliveries and unloading to the staging area in a manner that will prevent congestion, blocking of access to the project site, or interference with the work in progress by both the contractor and subcontractor.
- B. The subcontractor shall provide for continuity of supply and shall avoid any change of supplier or manufacturer or change in brands of material during work.

1.12 Mobilization/Demobilization

- A. The subcontractor shall furnish, install, and construct facilities and mobilize all construction equipment, materials, supplies, and incidentals so they are ready to commence and perform the work.
- B. The subcontractor shall assemble and deliver to the project site any equipment, materials, and supplies necessary for the performance of the work, but which are not intended to be incorporated in the work; provide for preparation of the subcontractor's work area; complete assembly, in safe working order, of equipment necessary to perform the required work; provide for personnel services required prior to commencing actual work; and provide all other preparatory work required to permit commencement of the actual work. A representative of the contractor shall be present whenever unloading/loading heavy equipment and materials at the work area; this includes deliveries by lower-tier subcontractors and equipment vendors.
- C. The subcontractor shall demobilize from the site all construction equipment, materials, supplies, and appurtenances upon completion of the work.
- D. The subcontractor shall maintain, operate, and subsequently remove and dispose of construction facilities as required by the contractor, clean the site, and regrade as necessary to restore to adjacent and preconstruction grades. At completion of this subcontract, all remaining temporary facilities and utilities installed under this subcontract shall be dismantled, demolished, removed, or otherwise disposed as appropriate and removed from the project site. At project completion, demobilize the subcontractor's staging areas and reclaim areas installed under this subcontract. Regrade areas to match adjacent grades and promote drainage without erosion.

1.13 General Equipment Requirements

- A. Fuel, fluids, lubricants, maintenance, parts, and repairs required for the safe, efficient operation of the specified equipment complying with manufacturer specifications shall be provided by the subcontractor. Inoperable equipment shall be repaired or replaced within 1 workday.
- B. Equipment List/Operators

Prior to commencing the applicable work, the subcontractor shall submit a list of equipment that will be used on the project. The list shall include the types of equipment, size/model, equipment rental rates, and whether owned or rented. The subcontractor shall demonstrate that all equipment operators are proficient with each piece of equipment they will be operating either through experience (resume, letter from subcontractor) or onsite demonstration.

All equipment shall be delivered clean and free of oil, fuel, and fluid leaks, and shall be maintained in a manner to avoid any leaks. If the subcontractor spills any hydrocarbon-based fluid, antifreeze, or other material, the subcontractor shall immediately notify the contractor and control in accordance with Section 01200: Environmental Compliance, Article 1.4D. If a piece of equipment is leaking, the equipment shall be "red-tagged" (taken out of service), diapered to prevent ground surface contamination, and repairs made at the subcontractor's expense.

- C. Tools and Equipment: It is the subcontractor's responsibility to ensure that equipment is OSHA compliant and meets manufactures operating specifications, parameters, and includes all safety appurtenances prior to mobilization to the site. The contractor shall inspect tools and equipment mobilized to the site for obvious defects and for OSHA compliance. Heavy equipment and vehicles shall have the correct type of fire extinguisher. All heavy equipment shall not be over 10 years old from date of manufacture unless approved by the contractor before mobilizing to the site. Tools and equipment that do not conform to OSHA regulations, or heavy equipment and vehicles that have obvious fuel, oil, hydraulic, coolant, etc. leaks, will not be allowed on the site. All power operated tools and equipment shall be operated and used only per manufacturer's recommendations and in the manner for which it is manufactured and designed. All heavy equipment shall have enclosed cabs with operating air conditioning and new cab air filters.
- D. Equipment Fueling: Onsite equipment fueling shall comply with Title 29 Code of Federal Regulations (CFR) Part 1926.152 and Part 1910.106 "Flammable and Combustible Liquids," to include an electrical interconnection (bonded) between the fuel truck and the equipment/vehicle being fueled and a correct type of fire extinguisher, charged and inspected. The fuel truck operator is bound by all requirements of this subcontract and will require an Initial Site Briefing and orientation the first time the equipment requires fueling. If onsite fueling of any kind is required, to include heavy equipment, generator's Fueling Plan (form LMS 2623CON). Equipment fueling shall be conducted at the Contractor's direction and will take place during the work hours specified in Article 3.3 of the task specific scope statement. If equipment fueling is conducted with individual fuel cans, the cans shall comply with 29 CFR 1926.152 and 1910.106, and shall be steel cans with pour spouts, spark/flame-arresting devices, and snap-close lids that cannot be locked back.

End of Section 01500



Fueling Plan

Site: Enter site

Project: Enter Project.

- Onsite equipment fueling shall comply with Title 29 OSHA Code of Federal Regulations Part 1926.152 and Part 1910.106,
 "Flammable and Combustible Liquids."
- Fuel can be provided by direct fueling of equipment from fuel tanks located in the rear of the subcontractor's pickup trucks.
- Fuel may be stored in portable tanks onsite with approval of the Contractor representative.
- Fuel can also be provided by a fuel service provider.

Name of provider: Enter name of provider.

- The fuel truck operator will receive an Initial Site Briefing and orientation the first time the fuel truck arrives onsite and a safety briefing each time thereafter.
- Equipment fueling shall be conducted with the Contractor representative's approval and will take place during work hours.
- If practical do not do fueling in a radiologically contaminated area.
- Fueling operations shall be attended at all times.
- Turn off all engines prior to fueling. Allow cooling time prior to fueling for small engine equipment such as generators, chain saws, lawn mowers, etc.
- Fueling equipment shall be kept in a safe working condition per manufacture's specifications.
- Inspect all hoses and equipment for leaks and repair/replace if necessary prio. to any fueling operation.
- Bond (electrically interconnect) fuel tanks (when using fuel truck) during fuel transier activity.
- A fire extinguisher of appropriate type and size properly charged and in. rected shall be placed within easy reach of the fueling operation, but where it will be safe from a fire.
- No smoking, open flames, electrical tools, etc., shall be user with. 100 feet during fueling operations.
- Safety glasses shall be worn during fueling operations.
- Do not re-enter the vehicle or equipment during fueling.
- Ensure that tanks and containers being stored chsic are grounded.
- To avoid fuel spills and exposure to fuel vapors, vo not overfill or top off tanks.
- If practical, use a plastic tub or other sc. pdary containment, such as a drop cloth, to contain spills when fueling.
- A spill kit and sorbent material shall be at the location of fueling operations in case of spills.
- Safety Data Sheets shall be a pilable onsite during fueling operations.
- Individual fuel cans shall be steen and with pour spouts, spark/flame-arresting devices, and snap-close lids that cannot be locked back. Close and remove fuel container from work area when not in use, store in appropriate area.
- Minimize volume of fuel onsite to job requirements.
- If fuel spill or leak occurs: Stop leak, warn others in area, and prevent from spreading or contaminating the ground surface or water. See Contractor for cleanup and proper disposal of affected materials in accordance with applicable regulations.

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Print Name	Signature	Date
Please print name.		Enter date.
No fueling will be required.		□Yes □No
All fueling will be conducted offsite.		□Yes □No
Onsite fueling is required. Subcontractor concurs with t	□Yes □No	

Section 02050: Demolition and Debris Removal

Part 1—General

1.1 Scope

This section describes demolition and disposal of existing features, including requirements for the following:

- A. Demolition of existing site features.
- B. Brush clearing
- C. Debris haulage and disposal.

1.2 Related Work

- A. Division 1 of these specifications.
- B. Section 02200: Earthwork: Excavation, Backfill, and Disposal.
- C. Section 02225: Excavations Over Utilities.

1.3 Submittals

- A. Submittals shall be made in accordance with Section 01300: Submittals.
- B. Submittals shall be made for proposed substitutions.
- C. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- D. Submit landfill and recycling center disposal weight tickets within 2 weeks of project completion.

1.4 Salvage Disposition, Storage, and Handling of Property

All materials, equipment, improvements, and other property permanently removed from the property shall be hauled to a recycling facility or licensed landfill for final disposal. The subcontractor shall have full salvage rights to all demolished material.

1.5 Definitions

Intrusive Work: Intrusive work is defined as any work that breaks the existing ground surface. This shall include machine and or hand excavation, any scarifying work to any depth, and any demolition work. Ground surface shall include native soils and hard surfaces such as asphalt or concrete.

Part 2—Products

(Not Used)

Part 3—Execution

3.1 General

- A. Subcontractor shall perform demolition activities as indicated on the plans and specification and as defined in the Task Specific Scope Statement (TSSS).
- B. Demolition methods and operation procedures shall comply with local regulations and the following additional requirement:

Blasting or the use of explosives in demolition operations is not permitted.

- C. Do not begin any demolition work until utility line locates in accordance with Section 02225: Excavations Over Utilities, of these specifications have been completed.
- D. Do not begin any demolition work until site access controls, existing facilities protection fencing and erosion protection measures are in-place.

3.2 **Operation Procedures**

A. Temporary Facilities

Conduct operations to ensure minimum interference with roads, walks, entrances, exits, and other adjacent occupied facilities. Subcontractor shall maintain continuous and uninterrupted access to the contractor's onsite job trailer during project work.

B. Dust Control

Dust shall be controlled in accordance with Section 01200: Environmental Compliance, Article 3.2 of these specifications.

C. Electric Power

Contractor will arrange for a licensed electrician to have electric power physically disconnected from Building 300 and will verify that all power is isolated to ensure no electric current is being back fed from another source. Electrical feed lines will also be disconnected, and air gapped at the buildings electrical disconnect box.

D. Environmental Assessment

Contractor has performed an environmental assessment that has indicated that there are no environmental issues; i.e., asbestos, lead based paint, mercury. The assessment report is provided in Attachment-B for reference.

E. Radiological Scanning

Contractor will perform NORM radiological surveys of the air stripper, piping and extraction wells discharge lines before and during demolition. Surveys will be done whenever the contractor believe's it is warranted and the subcontractor shall allow access for surveys. Surveys will be performed to assure no material will activate a radiological alarm at the disposal site.

F. Soil Removal

No soil may be removed from the site. Any soil that is adhered to an item that is being demolished and will be removed from the site shall:

- 1. Soil will be scraped from the item.
- 2. Remaining soil after scraping shall be broom swept from the item.

Contractor will approve of adequate soil removal prior to the item leaving the site.

3.3 Debris Disposal

Wood, concrete, and other miscellaneous materials shall be cut or broken to a size acceptable by the disposal facility. Contractor has determined that all items included with this demolition work may have unrestricted disposal.

3.4 Brush Clearing

Brush clearing shall comply with Section 02200 of these specifications.

3.5 Facilities Demolition

- A. Building 300 shall be demolished in it's entirety including the enclosed air stripper, associated piping and appurtenances, and concrete slab and foundation. Remove and segregate for re-use the 4" granular base underneath the buildings concrete floor slab in accordance with Section 02200: Earthwork: Excavation, Backfill, and Disposal of these specifications. Attachment -A presents the buildings As-Built drawings for reference.
- B. Extraction Wells:
 - 1. Well pumps, motors, electric lines and discharge pipes inside the wells have been previously removed. The wells casing and well caps shall be left in-place and protected by the subcontractor from damage.
 - 2. Excavate and remove the 2" diameter, HDPE, extraction wells discharge lines and electrical power line from wells to Building 300. Excavation and backfill shall conform with requirements in Section 02200: Earthwork: Excavation, Backfill, and Disposal.

Physical Feature	Well No. 0449	Well No. 0450
Casing diameter and material type	5 – inch, steel	5 – inch, steel
Buried GW line from wells to Building 300; diameter and material type	2-inch, HDPE	2-inch, HDPE

Table 02050-1, Extraction Wells Schedule

C. Effluent Line

Excavate and remove the 6" PVC effluent line from Building 300 to a location determined by the contractor. Subcontractor shall proceed in the following sequence:

- 1. Perform utility line locates and pot holing of the effluent line in accordance with Section 02225: Excavations Over Utilities of these specifications.
- 2. Based on the depth of the effluent line as determined from pot holing, locate the effluent line west end that is to be cut by determining a safe excavation distance from monitoring well No. 0416 southeast bollard as shown on Sht. 2 of the plan set.
- Cut the 6" PVC effluent line at a location jointly determined by contractor and subcontractor and cap the PVC line. Place a concrete thrust block using 3,000 psi concrete around the cap. Minimum 2'×2'×2'. Allow 24-hour cure time before backfilling.
- 4. Excavate the effluent line to Building 300, remove and dispose of.
- D. Buried Tote

Excavate, remove and dispose of the buried tote.

3.6 Excavation and Backfill

All features requiring excavation for demolition shall be backfilled in conformance with the requirements of Section 02200: Earthwork: Excavation, Backfill, and Disposal.

End of Section 02050

Section 02200: Earthwork: Excavation, Backfill, and Disposal

Part 1—General

1.1 Scope

This section describes the requirements for clearing and grubbing, excavating, backfilling, compacting, and final grading. Earthwork materials include:

A. Common borrow.

1.2 Related Work

- A. Division 1 of these specifications.
- B. Section 02050: Demolition and Debris Removal
- C. Section 02225: Excavations Over Utilities.

1.3 Submittals

- A. Submittals shall be made in accordance with Section 01300: Submittals.
- B. Submittals shall be made for proposed substitutions.
- C. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- D. Subcontractor shall submit to contractor material sources and analyses for common borrow material 5 days prior to delivery of the material to the site per Article 2.1B. Supplier provided analyses for all imported backfill materials shall indicate compliance with these specifications.
- E. Submit water source per Article 3.5 of this section at site mobilization.

1.4 Specifications, Codes, and Standards

The publications listed below form a part of this section to the extent referenced. The publications are referred to in the text by the basic designations only.

ASTM International (ASTM)

ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)

1.5 Earthwork Definitions

- A. Excavation: Excavation is defined as material removal to reach the lines, grades, and depths shown on the drawings or determined by contractor.
- B. Intrusive Work: Intrusive work is defined as any work that breaks the existing ground surface. This shall include machine and or hand excavation, any scarifying work to any depth, and any demolition work. Ground surface shall include native soils and hard surfaces such as asphalt or concrete.
- C. Contaminated materials are defined in Section 01020: Safety and Health.

- D. Salvaged Excavation Materials: Salvaged excavation materials include onsite soil or rock materials from demolition activities on the site that are suitable as common borrow, in accordance with Article 2.1B of this section that are not otherwise classified as unsatisfactory fill material in accordance with Article 1.5F of this section.
- E. Overexcavation: Overexcavation is defined as excavation of any type of material in excess of the lines, grades, or depths indicated on the drawings.
- F. Unsatisfactory Fill Materials: Unsatisfactory materials for fills or backfills include, but are not limited to: 1) those materials containing roots and other organic matter, trash, debris, frozen materials; and 2) materials that do not meet the specifications of this section. Materials that are unsuitable due to excessive moisture or incorrect gradation shall be reclaimed by blending with other suitable materials.
- G. Topsoil: Soil formed in the upper ground surface and in which organic matter accumulates, free of admixed subsoil, foreign matter, toxic substances, and substances that may be harmful to plant growth. Topsoil is an unsuitable structural fill material.
- H. Stockpile Construction: Stockpile construction is defined as construction of a stable fill that will serve as a temporary storage stockpile.
- I. Subgrade Preparation: Subgrade preparation includes scarifying, grading, and compacting existing ground upon which additional materials other than topsoil will be placed.

1.6 Special Project Requirements

Soil cannot be removed from the Site. All excavated soil shall remain onsite and used as backfill.

1.7 Sequencing and Scheduling

Subcontractor shall obtain the following clearances from contractor at the indicated hold points before proceeding.

- A. Erosion control measures—Before any excavation or backfilling occurs, or other land disturbance, contractor shall verify that all erosion control measures are in place.
- B. Depth of topsoil, as determined by contractor, that is to be segregated during excavation.
- C. Authorization for over excavation—Before beginning over excavation.
- D. Investigation of rock or suspected rock encountered in excavation—Before continuing with excavation.
- E. Approval of prepared subgrades, including keying and benching—Before placing fill on the subgrade surface.
- F. Approval of filled surface—Before covering the surface with the next soil lift, a different fill type, or other material that buries or conceals the surface.

Part 2—Products

2.1 Backfill Materials

- A. General
 - 1. Do not use unsatisfactory fill material for any backfill.
 - 2. Do not obtain fill from anywhere on the site, except from excavation areas required for demolition access, without contractor's written approval.
- B. Fill and Backfill Material Specifications
 - 1. Common Borrow: Common borrow materials, imported for use as fill shall be native excavated materials obtained from a commercial suppler or an approved equal source submitted by subcontractor. Common borrow shall be used as fill material in areas created from demolition and shall not contain rocks greater than 6 inches on any plane. Common borrow shall classify as SC, SM, SC–SM, in accordance with ASTM D2487.
 - 2. Aggregate Base: Aggregate base material shall be acquired from the Building 300 building slab 4" granular base. Reference Attachment A, Sht. 04001.

Part 3—Execution

3.1 Site Preparation

Clearing and Grubbing

- A. Clear and grub areas to be excavated or filled.
 - 1. Continue clearing and grubbing to the outermost borrow area excavation lines and excavation and fill lines.
 - 2. Clear areas to be used for stockpiles, disposal areas, borrow areas, and construction facilities.
- B. Clear roots of trees, brush, grass, weeds, and similar materials.
- C. Strip small roots, organic matter, low vegetation, and other material from areas to be disturbed by required construction activities, excavated, or filled, including stockpiles and disposal areas.
- D. Organic material too large to be excavated with topsoil (i.e., tumble weeds, bushes), shall be cut and spread onsite in an area designated by contractor.
- E. Chain-saw operations shall comply with Occupational Safety and Health Administration 29 CFR 1910.

3.2 Protection

- A. Do not begin earthwork at any location until temporary drainage and erosion-control measures, as needed, are in place and properly operating. Maintain such measures in proper working order until earthwork in the affected area is complete.
- B. Do not begin any intrusive work until line locates in accordance with Section 02225: Excavations Over Utilities of these specifications have been completed.
- C. Protect the following from damage during earthwork. Promptly repair damage, as appropriate, to contractor's satisfaction, at no additional cost to contractor.
 - 1. Shrubs and other vegetation outside the limits of earthwork. Disturbance of natural vegetation shall be limited as much as practical.
 - 2. Benchmarks, survey monuments, existing structures or facilities, fences, and other property adjacent to this work area.
 - 3. Utility poles and lines.
 - 4. Completed work.
 - 5. Monitoring wells and piezometers.
 - 6. Storm drain catchment basins.
 - 7. Protected areas identified on drawings.
- D. If any suspected archaeological or historical artifacts are encountered during earthwork, suspend the activity and notify contractor immediately as required in Section 01200: Environmental Compliance, Article 3.1 of these specifications.
- E. Protect newly graded areas from traffic and erosion by wind or water. Repair any settlement or areas washed away, and re-establish the pre-excavation and grades.

3.3 Excavating

- A. General
 - 1. Prior to beginning excavation or demolition work in an area, subcontractor shall construct temporary site drainage facilities as needed to control surface runoff and initiate dust control measures as required in Section 01200: Environmental Compliance, Article 3.2 and 3.3 of these specifications.
 - 2. Segregate topsoil for re-use.
 - 3. Reuse excavated materials that meet the specified requirements for fill materials to be used in the work.
 - 4. Keep excavations free from water. Management of groundwater and storm water encountered in excavations shall be the responsibility of subcontractor. When groundwater is encountered, notify contractor and allow contractor access to gather groundwater data as needed. Remove standing water in excavation and backfill areas by pumping or by any other contractor-accepted method for removing standing water. Water may be discharged to surface provided positive drainage away from the excavation occurs.
 - 5. Notify contractor at once of springs, seeps, or wet zones found in excavations.

- 6. Excavations and excavated materials shall follow current Occupational Safety and Health Administration (OSHA) requirements. Shoring, over excavation, or other work may be required to comply with OSHA safety and health requirements. Cost for complying with OSHA requirements shall be incidental to subcontractor's work.
- B. Over excavation
 - 1. Over excavate unsuitable materials, such as frozen soil, soil disturbed or weakened by subcontractor operations, or soil made unsuitable for subsequent construction by exposure to weather at no extra cost to contractor.
 - 2. Unless specified otherwise, backfill over excavated areas and other areas cut beyond the indicated lines and grades with fill of the type indicated for adjoining earthwork.
 - 3. Backfill over excavation made without contractor authorization and over excavation resulting from subcontractor operations or weather exposure, at no extra cost to contractor.
- C. Storage and Disposal
 - 1. Dispose of unsatisfactory materials from excavations in contractor-designated waste areas.
 - 2. Construct and operate surplus-material storage areas and waste areas as stockpiles.
 - 3. Do not store or dispose of excavated material in a manner that obstructs the flow of any stream, ditch, or drainageway, except in the case of sediment control areas; endangers partly finished work; or impairs the efficiency or appearance of a structure or facility or is detrimental to the completed work.

3.4 Preparing Subgrades

- A. Preparation to Receive Fill
 - 1. After stripping, excavating, and/or keying is complete, scarify the subgrade 6 inches (minimum) deep.
 - 2. Work the scarified material to a uniform condition and adjust the water content by wetting or drying.
 - 3. Proof roll subgrade a minimum of two passes with selected compaction equipment.

3.5 Watering for Moisture Control

- A. Watering for moisture control during compaction shall consist of furnishing equipment, accessories, and incidentals necessary to apply water.
- B. Water for compacting common borrow material, shall be applied by means that ensures a uniform application.
- C. All equipment used for the application of water shall be equipped with a positive means of shutoff.

- D. Water shall be free of oils, acids, alkalies, salts, or any substance injurious to human, animal, or plant life. Imported water sources are considered as a proposed material substitution and shall be reviewed for acceptance by contractor prior to use on the Project.
- E. Subcontractor shall not use surfactants with water unless approved in writing by contractor.

3.6 Placing Fill

- A. General Requirements
 - 1. Fill materials shall be placed and compacted to the adjacent grades and blended to match preexisting undisturbed surfaces.
 - 2. All areas shall have positive drainage away from structures and shall have complete positive drainage whenever possible. When positive drainage is not possible, areas shall be graded so that ponding occurs a minimum of 10 feet away from any structure.
 - 3. Do not place fill in standing water or on snow, ice, muddy, or frozen subgrades.
 - 4. Maintain a uniform moisture distribution in each fill lift until it is compacted.
 - 5. Rework or remove and replace fill that fails to comply with specification or drawing requirements, at no extra cost to contractor.
- B. Special Requirements
 - 1. Scarify, work, adjust moisture, and compact fill that is too dry or too smooth to bond with overlying lifts, as specified for subgrades being prepared to receive fill. Fill that is smooth-drum rolled is considered "too smooth."
 - 2. Rework and dry fill surfaces that are muddy or wet. Remove wet fill and replace with dry material if necessary.
 - 3. Backfilling and compaction shall be done in the presence of the contractor.
 - 4. Compaction of all materials shall be done to the satisfaction of the contractor.
- C. Placing Common Borrow Fill
 - 1. Place common borrow or native backfill as fill where other types of fill are not indicated on the drawings or this section.
 - 2. Spread in lifts 12 inches (maximum) thick, measured before compaction, where power compaction equipment is used.
 - 3. Limit lifts to 4 inches (maximum) thick, measured before compaction, where hand compaction equipment is used.
 - 4. Grade Control

During backfill, the lines and grades shall be set so that adjacent grades are met.

- D. Placing Aggregate Base
 - 1. Preparation of Existing Subgrade

Prior to placing the aggregate base, the underlying or existing subgrade shall be cleaned of all foreign substances. At the time of construction, the underlying course shall contain no frozen material. Ruts or soft, yielding spots in the underlying courses or areas having inadequate compaction shall be corrected by ripping and compacting per contractor's direction.

2. Grade Control

Aggregate base shall be placed to match adjacent grades at a 4" thickness.

- 3. Placing Aggregate
 - a. Aggregate base shall be placed on the prepared subgrade in one layer of uniform thickness. The layer shall be so placed that when compacted it will be true to the adjacent grades.

3.7 Earthwork Finish Grading

- A. General Finish Grading
 - 1. Uniformly smooth-grade earthwork, including excavated and filled sections and adjacent transition areas.
 - 2. Make finished surfaces reasonably smooth, compacted, and free from irregular surface changes. The degree of finish shall be that ordinarily obtainable from blade-grader operations.
- B. Excess materials remaining in stockpiles after completion of all required fills shall be neatly graded to drain and left in-place.

3.8 Field Quality Control

Observation by contractor: Do not perform earthwork unless contractor is onsite and aware of work being performed.

End of Section 02200

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Section 02225: Excavations Over Utilities

Part 1—General

1.1 Scope

This section describes the general requirements for the location, protection, excavation around, and repair of existing site utilities.

1.2 Related Work

- A. Division 1 of these specifications.
- B. Section 02050: Demolition and Debris Removal
- C. Section 02200: Earthwork: Excavation, Backfill, and Disposal.

1.3 Submittals

- A. Submittals shall be made in accordance with Section 01300: Submittals.
- B. Submittals shall be made for proposed substitutions.
- C. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- D. Submit request for exemption or modification to parts of this specification as stated in Article 1.5 of this section, 1 week prior to planned implementation.
- E. Submit name of company and qualifications of independent line locater as identified in Article 3.3 at the Preconstruction conference.

1.4 Definitions

- A. Excavation: Excavation is defined as material removal to reach the lines, grades, and depths shown on the plans or determined by contractor.
- B. Intrusive Work: Intrusive work is defined as any work that breaks the existing ground surface. This shall include machine and or hand excavation and any scarifying work to any depth. Ground surface shall include native soils and hard surfaces such as asphalt or concrete.
- C. Pot Holing: Exploratory holes excavated by non-mechanical means to physically locate a buried utility line. Pot holing shall be performed by hydraulic vacuum or air knife excavation method for soil removal unless hand excavation is specifically allowed by contractor in writing.

Hydraulic vacuum spoils shall be disposed of onsite at a location designated by the contractor. The spoils area shall be enclosed by a row of erosion control wattles.

1.5 Exemptions/Modifications

Any exemptions or modifications to these specifications shall only be initiated with written approval from contractor's site lead.

Part 2—Products

2.1 Utility Repair Materials

- A. Public Utility Lines: Utility lines owned by a public utility company shall be repaired by the utility company and not by subcontractor.
- B. All other lines not owned by a public utility company shall be repaired by subcontractor. Material used for repair shall comply with local codes or with the utility service specifications, whichever is more stringent.

Part 3—Execution

3.1 Utility Location

Locations, sizes, depths, clearances, and identification of utility lines and pipes shown on the plans are considered approximate, not all inclusive, and subject to change. It is subcontractor's responsibility to determine locations, sizes, depths, clearances, and identify all utility lines in the work area where intrusive work will occur through the blind search method. No intrusive work of any kind shall be performed until all utility lines in the intrusive work area have been field verified by pot holing.

In the cases where subcontractor's utility line locations differ from the plans, both areas will be field verified by pot holing.

3.2 Local One Call System

Subcontractor shall locate utility lines through the local one call system in all work areas prior to beginning construction. In performing utility line locations, subcontractor shall arrange to have underground utilities in work areas located by the utility company involved.

3.3 **Private Utility Location**

In addition to the local one call system, subcontractor shall use a method of utility line location that provides a ground penetration radar (GPR) "blind search" for utilities not within the utility company locating jurisdiction and to also confirm the utility company line locates. Subcontractor shall employ the services of a qualified private line locating company to perform the blind search for utility lines. In addition, contractor will also check the location of the lines identified by the utility companies and subcontractor.

3.4 General Requirements

- A. Subcontractor shall hand-stake all utility lines within 24 hours of their location being marked. Subcontractor shall coordinate with contractor to be present on the project site when a qualified line locator service representative marks the affected utility lines for the work area.
- B. Contractor will verify and document the utility companies locations and utility line locations identified during the blind search prior to any intrusive work. Actual intrusive work on the site by subcontractor shall not be allowed until contractor has verified all lines and has signed subcontractor field plans.
- C. In addition to the utility lines being marked in accordance with the specifications, the centerline shall be staked within the work area at 25-foot intervals by subcontractor. When the centerline stakes must be moved to accommodate work, off-set stakes or marks shall be provided by subcontractor at the same intervals. Centerline stakes shall be replaced as soon as work in the immediate area has been completed.
- D. Utility location procedures that were used by contractor in developing the plans will be available for review upon request by subcontractor.
- E. The location of potential utilities and their identification relative to area growth/added scope will be addressed on the associated Construction Interface Document.

3.5 Excavation In Utility Areas

- A. The area where demolition activities will occur contain both abandoned in-place and active utility lines. Both type of utility lines shall be considered active.
- B. Intrusive work in areas of suspected underground utilities shall proceed in a manner that will eliminate the risk of accidental damage to the utilities. Excavation in areas where underground utilities have been identified shall proceed in the following manner for all utility lines.
- C. Utility line pot holing and utility line location verification shall be completed prior to excavating within 10 feet of a marked utility line.
- D. Prior to excavating within 10 feet of any utility line, subcontractor shall contact the utility line owner for authorization and shall notify contractor.
- E. In cases where utility lines cross an excavation area, pot holes shall be excavated to determine the exact location and depth of a utility line.
 - 1. Pot holes for utility lines shall be dug on 25-foot maximum centers. Additionally, all intersections of any utility lines shall be "pot holed."
- F. In cases where a new trench excavation crosses an existing utility line, pot holes shall be excavated to determine the exact location and depth of all utility lines that the trench crosses.
- G. All utility lines exposed by pot holing shall have their locations "as-built" by contractor who will redline their plans and take double measurements to a known point outside of excavation area. The exposed utility horizontal location and burial depth shall be placed on the plans.

H. Figure 02225-1 presents pot holing requirements for a utility line crossing a work area. Pot holing for a trench crossing an existing utility line would have the same requirements.

3.6 Excavation Over Electrical Lines

- A. No pot holing shall be done on buried electrical utilities until the electrical lines have been deenergized and lockout/tagout has been done on lines unless authorized in writing by the Site's safety and health representative and the site lead. Site operations shall be notified 2 days in advance of any planned electrical shutdowns.
- B. Prior to initiating lockout/tagout on an energized line, subcontractor shall participate in contractor's lockout/tagout training and shall follow contractor's lockout/tagout procedure.
- C. No excavation of any kind shall be performed around energized electrical lines without the written concurrence of contractor. Contractor will not give written concurrence unless an accepted plan that demonstrates the safe excavation of the electric lines is submitted and approved. Acceptance of the plan shall be at the discretion of contractor and may include a Safe Work Permit and use of personal protective equipment.

3.7 Underground Utilities Encountered During Excavations

- A. If damaged, utilities shall be repaired under the supervision of the respective utility service or municipal agency having jurisdiction. Costs associated with repairs shall be the responsibility of subcontractor.
- B. Abandoned utilities encountered during excavation shall be documented on subcontractor plans. If open pipe ends are encountered or an abandoned utility line is broken during excavation creating open pipe ends, the pipes shall be capped by subcontractor. Capping may be accomplished by crimping, pouring concrete around, or plugging the open pipe end in such a way as to prevent a "path of least resistance" for any gas leaks that may develop in the future. Capping requirements of the affected utility service or municipal agency that vary from the requirements of this article shall govern.
- C. Active utilities shall be supported in place or removed and replaced with written approval of the utility owner. In-place support or removal and replacement shall comply with the specifications of the affected utility service or municipal agency.



Figure 02225-1. Utility Excavation Detail

3.8 Work Beneath Energized Overhead Electrical Lines

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines shall be operated to maintain a clearance of at least 10 feet, plus 4 inches for every 10 kilovolts over 50 kilovolts. This clearance may be reduced under the following conditions:

- A. If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 feet. However, if the voltage is greater than 50 kilovolts, the clearance must be increased 4 inches for every 10 kilovolts over that voltage.
- B. If insulating barriers are installed to prevent contact with lines, if the barriers are rated for the voltage of the line being guarded, and if the barriers are not part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier.

End of Section 02225

Section 02920: Revegetation

Part 1—General

1.1 Scope

This section addresses the establishment of vegetation on the project area. The objectives of the revegetation are to provide a vegetative cover to stabilize the soil following construction activities.

1.2 Related Work

- A. Division 1 of these specifications.
- B. Section 02200: Earthwork: Excavation, Backfill, and Disposal.

1.3 Submittals

- A. Submittals shall be made in accordance with Section 01300: Submittals.
- B. Submittals shall be made for proposed substitutions a minimum of 14 calendar days prior to use.
- C. Submittals shall be made as required on the Project Submittal List, Table 01300-1.
- D. Submit topsoil source, per Article 2.1 of this section, 1 week prior to delivery.
- E. Seed labels shall be on the bags, or intact, when seed is delivered to the site and shall be submitted after use per Article 2.2A of this section.

Part 2—Products

2.1 Topsoil

Topsoil, if needed, shall be from a contractor-approved source.

2.2 Seed Material

A. Quality

Seed shall be free of noxious weed seeds. This information will be on the seed label. Seed labels shall clearly specify:

- species
- variety (when applicable)
- origin
- date of harvest or testing
- lot number
- name and address of seed company

- percentages of purity, germination, inert material, and non-noxious weed seed
- no noxious weed seed
- B. Quantity

Seed mixtures and seeding rates shall be in accordance with product instructions and provide coverage for the entire disturbed area.

C. Seed Type

Seed used should be a mixture of tall fescue and perennial ryegrass. These can be acquired from a local farm supply or hardware store. Examples (Tractor Supply Co.) include:

- Premium Kentucky 31 Tall Fescue (DLF Pickseed)
- GroundWork Perennial Ryegrass (DLF Pickseed)

2.3 Erosion Control Materials

Straw mulch shall be placed to cover the entire seeded area to hold in moisture, prevent erosion during heavy rain and discourage birds and other wildlife from eating the seed.

- Quality: Straw mulch shall consist of clean (free of noxious weed seed) oat, barley, or wheat straw.
- Quantity: Use enough straw to cover the entire area lightly, avoiding the creation of a mulch mat that would prevent grass from growing.

Part 3—Execution

In performing this work, subcontractor shall avoid as much as possible disturbance to adjacent natural or undisturbed areas that are outside the work area limits shown on the plans. If any such additional areas are disturbed, including existing wetlands, they shall be reclaimed following these specifications.

3.1 Topsoil Backfill/Soil Preparation

Topsoil shall be segregated during excavation for demolition access. Depth of topsoil will be visually determined by the contractor during excavation. A minimum of 4" of topsoil will be required during backfill to establish proper plant growth. If in situ soils (topsoil) are heavily compacted, use a rototiller, aerator or similar prior to seeding to break up the compacted soil to a depth of 3 to 6-inches to ensure better germination.

3.2 Seeding

Seed shall be applied using a broadcast seeder, drop seeder or by hand at the rates specified in Article 2.2 of this section. One half of the seed shall be broadcast in one direction; the other half shall be broadcast in a perpendicular direction. Hand-broadcasting shall not be performed when wind conditions exceed 10 miles per hour.

Seed shall be raked into the soil immediately following broadcast seeding, covering the seed to a depth of approximately 0.25 inch.
3.3 Application of Erosion Control Materials

Straw mulch shall be applied as soon after seeding as possible, preferably within 24 hours. Mulching shall not take place when wind velocities exceed 15 miles per hour.

3.4 Watering

Following seeding and mulching, water the seeded area to dampen, but not to the point of runoff. Follow up watering may be necessary if extended dry periods are forecast.

3.5 Cleanup

The subcontractor shall remove all trash and debris associated with work included in these specifications at the completion of seeding.

End of Section 02920

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Attachment C

EG&G Mound Applied Technologies OU-1 Remedial Action, As-Built, April 1997 This page intentionally left blank

EG&G MOUND APPLIED TECHNOLOGIES **OU-1 REMEDIAL ACTION**

PUMP AND TREATMENT SYSTEM

MIAMISBURG, OHIO JUNE 1996

INDEX

ARX TITLE SHEET

HEST CENTRAL AVE

MOUND

CONTRACTOR'S

OHIO

EAST CENTRAL A

1725

- G1 CONTRACTOR'S ROUTE SHEET
- G2 SITE PLAN
- G3 CONSTRUCTION DETAILS
- M1 TREATMENT BUILDING PLAN AND SECTION
- M2 PROCESS AND INSTRUMENTATION DIAGRAM
- E1 POWER PLAN AND LIGHTING/GROUNDING PLAN
- E2 ELECTRICAL SCHEMATIC AND SINGLE LINE DIAGRAM

AS BUILT

APRIL 1997

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SCHEMATIC N.T.S.



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Attachment D

Environment Survey Report, Rainbow Environmental Services, March 2024

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Asbestos • Lead • Mold Residential & Commercial RAINBOW ENVIRONMENTAL SERVICES inc. P.O. Box 54863 Cincinnati, OH 45254 (513) 624-6470 FAX (513) 231-0301

March 18, 2024

Mr. Evan Kirk 937-620-1914 RSI ENTECH 7400 Willey Rd. Hamilton, Ohio 45013

Dear Evan:

Re: 1575 Vanguard Dr. Miamisburg, Ohio 45458

The following is a asbestos inspection report that was performed at the address referenced above. A total of (0) samples were taken from the interior of this building.

This structure is metal on metal with fiberglass insulation on the interior.

No suspect material to sample.

Any positive samples (including the linoleum, floor tile, and mastic if the material will become friable) must be removed by a Certified State of Ohio Asbestos Abatement Contractor prior to demolition.

This inspection was performed for demolition purposes.

If you have any questions regarding this inspection report, please feel free to call me at the office or my cell.

Sincerely,

RAINBOW ENVIRONMENTAL SERVICES, INC.

Brian May Asbestos Evaluation Specialist Asbestos • Lead • Mold Residential & Commercial



P.O. Box 54863 Cincinnati, OH 45254 (513) 624-6470 FAX (513) 231-0301

ASBESTOS INSPECTION

Prepared For:

RSI Entech 7400 Willey Rd. Hamilton, Ohio 45013

Project Name:

Vacant Building 1275 Vanguard Dr. Miamisburg, Ohio 45458

Performed By:

Brian May Certified Asbestos Hazard Evaluation Specialist #ES34360

March 18, 2024

INTRODUCTION

This report is a summary of the asbestos inspection performed on March 18, 2024, by Rainbow Environmental Services for the property located at 1275 Vanguard Dr., Miamisburg, Ohio 45458. This inspection was destructive and for demolition per your request.

INSPECTION PROCEDURES

Asbestos: The EPA in accordance with 40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants. This regulation applies to asbestos with a content in excess of 1% as determined by Polarized Light Microscopy. These regulations require specific procedures of removal, disposal and notification to proper authorities.

The EPA National Emission Standard for Hazardous Air Pollutants (NESHAPS) does not require the notification of the removal of friable asbestos containing materials prior to demolition for quantities less than 160 square feet or 260 linear feet. EPA does not regulate asbestos operations involving less than 50 square or 50 linear feet. OSHA requirements apply to these materials.

- **Category I:** Non-Friable materials (include resilient flooring, roofing and gasket materials that are in good condition) can be left behind during demolition. If in poor condition (brittle or broken), it must be removed prior to demolition.
- **Category II:** Non-Friable materials, such as transite siding and roofing must be removed from buildings prior to demolition.

INSPECTOR(S)

As required by the State of Ohio, the asbestos inspection was performed by Brian May, Certified Asbestos Hazard Evaluation Specialist (Environmental Protection Agency Certification No. 34360). Mr. May's certificates are attached.

The report was prepared by Brian May, Certified Asbestos Hazard Evaluation Specialist (Environmental Protection Agency Certification No. 34360). Mr. May's certificates are attached.

ASBESTOS SURVEY METHODOLOGY

This asbestos survey was conducted to determine the type, quantity, condition, and the potential for disturbance of suspected ACM used in the construction of the subject building. The asbestos survey was conducted in accordance with the applicable regulations and general guidelines set forth in EPA's *Asbestos Hazardous Emergency Response Act* (AHERA) and rules promulgated under 40 CFR 763, Subpart E. Although these guidelines were originally prepared for educational agencies, the guidelines can be used for commercial facilities when required by lending institutions or state regulations. These guidelines are also referenced in Occupational Safety and Health Administration (OSHA), 29CFR 1926.1101.

This survey included a thorough visual and physical examination of building materials to identify locations of known and/or suspect ACM's.

Suspect materials were classified as homogeneous, according to their location within the building, installation date, color, texture, and/or hardness, as suggested by current EPA sampling protocols. The suspect materials were then divided into homogeneous sampling areas and each sample collected was identified with a unique sample identifier consisting of a number that correlates to a homogeneous sampling area designation, and then by a number which indicates the sample sequence within the homogeneous grouping.

LABORATORY ANALYSIS

The analysis of the bulk ACBM samples were performed by a National Voluntary Laboratory Accreditation (NVLAP) accredited laboratory SanAir Technologies, Cincinnati, Ohio. A copy of the analysis and methods used is attached.

INSPECTION SUMMARY

An asbestos inspection was performed on March 18, 2024 to determine if asbestos was present in this building slated for demolition. Listed below are the results.

Sample Item	Location	Homo	Type of	%
# Description		Area #	Asbestos	Asbestos

No suspect material was found.

BUILDING INFORMATION

This is a single story, commercial building built with a slab.

The exterior of this building is made with metal.

There are no windows.

The roof of the building has metal on it.

The interior walls and ceilings are made with fiberglass insulation.

The floors are made of concrete.

All materials on the inside were found to be in fair condition.

FINDINGS

Interior: There are no samples that contains asbestos.

Exterior: There are no samples that contains asbestos.

SUMMARY

A total of (0) samples were taken during this inspection. There are no samples that contains asbestos.

The following is a compiled list of materials that contains asbestos, their locations, quantities, and recommendations.

Sample # Item Description	Location	Estimated Quantity	Response Action

The following is a list of other hazardous materials that must be removed prior to demolition:

Material Description	Location	Quantity

This inspection was performed for demolition purposes.

EPA NOTIFICATIONS: (Required) The EPA requires notifications for any commercial building, or greater than a four family, or a property which contains more than one residential structure or is part of a project or if the amount of friable asbestos exceeds 50 linear or 50 square feet.

<u>REMOVAL</u>: (Not Required) Demolition may occur with the proper permits.

BUILDING SURVEY FORM

Rainbow Environmental Services

P. O. Box 54863, Cinti, Ohio 45254-0863 Ph: 513-624-6470 Fax: 513-231-0301

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BUILDING SURVEY FORM

Rainbow Environmental Services P. O. Box 54863, Cinti, Ohio 45254-0863 Ph: 513-624-6470 Fax: 513-231-0301

Building "NOTES"

Basement	list Flöor	2nd Floor	3rd Floor
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Slab			
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METAL			
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BUILDING SURVEY FORM

Rainbow Environmental Services P. O. Box 54863, Cinti, Ohio 45254-0863 Ph: 513-624-6470 Fax: 513-231-0301

Removal "Quantities"

Basement	CrawlSpace	1 st Floor	2 nd Floor
Attic	. Siding.	Roof	Windows
•			
1			
4' Flourescent Bulbs	8' Flourescent Bulbs	Bulbs (other)	Ballasts
4' Flourescent Bulbs	8' Flourescent Bulbs	Bulbs (other)	Ballasts
4' Flourescent Bulbs	8'-Flourescent Bulbs	Bulbs (other)	Ballasts
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Mike DeWine, Governor Jon Husted, Lt. Governor Anne M. Vogel, Director

1/8/2024

Brian May Rainbow Environmental Services Inc 3727 Jonlen Drive Cincinnati, OH 45227

RE: Evaluation Specialist Certification Number: Expiration Date: 2/5/2025

Dear Brian May:

This letter and enclosed certification card approves your request to be certified as an asbestos Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Ohio Environmental Protection Agency (EPA) for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please contact the Asbestos Program at 614-644-0226 or by email at asbestoslicensing@epa.ohio.gov.

Sincerely,

Brandon M. Schwendeman

Brandon Schwendeman Manager, Business Operations Support Section Ohio EPA - Division of Air Pollution Control



00 • P.O. Box 1049 • Columbus, OH 43216-1049 4) 644-3020 • (614) 644-3184 (fax) This page intentionally left blank





		UTILITY POLE MAN HOLE BOLLARD FIRE HYDRANT STORM DRAIN MANHOLE STREET LIGHT UTILITY VALVE BOX WATER VALVE TREE CONTROL POINT	- 1. 2 3
ABBREVIATI	ONS MAIN		-

PROJECT LOCATION MAP

MOUND SITE LOCATION MAP

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Appendix C

Notice of Final Completion Inspection (LMS 2607 CON) and Public Notice and Proof of Publication



Notice of Final Completion Inspection

site: Moun	d, Ohio	Project: Pump And	reat Building 300Demolition						
	Leg	acy Management Suppor	Services Contract						
Subcontractor	. McCool Enterprise	S	Subcontract No:						
Construction	Start Date: 08/05/202	24 Const	ruction Completion Date:	08/14/2024					
Final/No to be con	Variances: The work t	tasks and activities und and conditions of the s	er this subcontract are certi ubcontract docume <mark>nts.</mark>	fied by the undersigned					
			Don McCool						
Contracto	or Representative (print and s	sign/date)	Subcontractor Representation	ve (print and sign/date)					
Final wit of the sul Subcontr and subc Completion ar Failure to comp extension of tin subjects the su conditions, "Ter	 Final with Variances: Any incomplete tasks or minor deviations from the terms and conditions of the subcontract documents are described below and shall be completed and/or corrected by the Subcontractor no later than the completion date mutually agreed on by the undersigned contractor and subcontractor representatives. Completion and/or Correction Date: Failure to complete these tasks and/or correct these minor deviations by the completion date (unless an extension of time is formally requested and granted) constitutes a substantial violation of the subcontract and subjects the subcontractor to the terms and conditions set forth in Clause 6 of the subcontract terms and conditions, "Termination." 								
The following (attach separa	variances are to be co te sheets and photog	ompleted and/or corre raphs as required):	ected before final paymen	t is authorized					
Contracto	or Representative (print and s	sign/date)	Subcontractor Representation	ve (print and sign/date)					
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Distribution:	Site Management, Proje	ect Management, Projec ance, Quality Assurance	t Engineering, Project Const , Health and Safety, Project (ruction, Procurement, Controls					

U. S. Department of Energy Office of Legacy Management

Public Notice of Availability Building Data Package Mound, Ohio, Site, Miamisburg, OH

The U.S. Department of Energy (DOE), Office of Legacy Management (LM), is making the following documents available for public information per the Mound 2000 Process for the demolition of Building 300, which housed the Operable Unit 1 (OU-1) Pump and Treatment (P&T) system, and disassembly of the groundwater treatment system located at the Mound, Ohio, Site in Miamisburg, Ohio.

- Building Data Package (BDP) and Operable Unit 1 (OU-1) Pump and Treatment System
- Mound, Ohio Pump and Treat Building 300 Demolition, Scope of Work.

The *Amendment to the Record of Decision for Operable Unit 1 of the Mound Site*, signed on September 26, 2023, changed the groundwater remedy in OU-1 and provided approval for the removal of the P&T system, also known as Building 300. The P&T system has been permanently shut down and the building is ready for demolition.

LM is issuing this notice of the BDP as part of its public participation responsibilities under the Mound 2000 process. The public comment period will end 30-days after this publication.

A copy has also been published on the LM public webpage at: <u>https://www.energy.gov/lm/mound-ohio-site</u>.

Also a copy of the BDP is available for public review at the Mound Cold War Discovery Center (MCWDC) located at 1075 Mound Rd, Miamisburg, OH 45342. The BDP has been placed on the second floor next to the DOE LM electronic reading room computer, within a binder titled Building Data Package. Please note this hard copy is available for review during the MCWDC standard business hours. The MCWDC is open to the public Wednesday through Saturday from 10 a.m. to 4 p.m.

Any questions or comments on the BDP and this demolition project please contact:

Mound Site Manager U.S. Department of Energy, Office of Legacy Management 7295 Highway 94 South St. Charles, MO 63304 public.affairs@lm.doe.gov



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ADVERTISER CLIENT #	# ADVERTISER/CLIENT NAME								
90734 RSI/Entech									

RSI/Entech 11035 Dover St, Suite 600 Westminster, CO 80021

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06/10/2024 06/08/2024 07/05/2024	P359371 I00836082-06082024 PO#Building Data Package	Dayton Daily News BUILDING DATA PACKAGE	Prepay Order #0000836082- CC #5903 Public Notice of Availability Building Data Package Mound, Ohio, Site; Miamisburg, Ohio The U.S. Department of Energy (DOE) Office of Legacy Management (LM) is Legals Page D 6	1 x 69 L 69	3	\$1,192.32	\$(1,192.32) \$1,192.32
6/11/2024		Total Amount Due					\$0.00

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PROOF OF PUBLICATION STATE OF OHIO PUBLIC NOTICE

Before the undersigned authority personally appeared Andrea Carolus, who on oath says that he/she is a Legal Advertising Representative of the Dayton Daily News, a daily newspaper of general circulation in Montgomery, Clark, Warren, Butler, Greene, Preble, Miami, Darke, Mercer, Shelby, and Champaign Counties, and State of Ohio, and he/she further says that the Legal Advertisement, a copy of which is hereunto attached, has been published in the said Dayton Daily News, 69 Lines, 3 Time(s), last day of publication being 06/10/2024, and he/she further says that the bona fide daily paid circulation of the said Dayton Daily News was over 25,000 at the time the said advertisement was published, and that the price charged for same does not exceed the rates charged on annual contract for the like amount of space to other advertisers in the general display advertising columns.

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Ad Cost: Paid: Balance Due:

0	000836082
	\$1,192.32
	\$1,192.32
	\$0.00

Public Notice of Availability Building Data Package Mound, Ohio, Site; Miamisburg, Ohio

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) is making the following documents avail-able for public access per the Mound 2000 Process for the demolition of Building 300, which housed the Opera-ble Unit 1 (OU-1) pump-and-treatment (P&T) system, and disassembly of the groundwater treatment system located at the Mound, Ohio, Site in Miamisburg, Ohio.

•Building Data Package (BDP) and Op-erable Unit 1 (OU-1) Pump and Treat-ment System. •Mound, Ohio, Pump and Treat Build-ing 300 Demolition, Scope of Work

The Amendment to the Record of De-cision for Operable Unit 1 of the Mound Site, signed on Sept. 26, 2023, changed the groundwater remedy in OU-1 and provided approval for the re-moval of the P&T system, also known as Building 300. The P&T system has been permanently shut down and the building is ready for demolition.

LM is issuing this notice of the BDP as part of its public participation responsi-bilities under the Mound 2000 Process. The public comment period will end 30 days after this publication.

Copies of the documents are available on the LM public webpage at: <u>https://www.energy.gov/</u> <u>lm/mound-ohio-site</u>.

A hard copy of the BDP is also available for public review at the Mound Cold War Discovery Center (MCWDC), locat-ed at 1075 Mound Road, Miamisburg, OH 45342. The BDP has been placed on the second floor next to the DOE LM electronic reading room computer, in a binder titled "Building Data Package." Please note this hard copy is only avail-able for review during the MCWDC is open to the public Wednesday through Saturday from 10 a.m. to 4 p.m. p.m.

For any questions or comments on the BDP and this demolition project, please contact:

Mound, Ohio, Site Manager U.S. Department of Energy Office of Legacy Management 7295 Highway 94 South St. Charles, MO 63304 public.affairs@Im.doe.gov 6-8, 6-9, 6-10/2024 -0000836082-01