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UCOR United Cleanup Oak Ridge LLC

OWNER: Technical Programs	PPD-FO-1037	REVISION: 5
SUBJECT MATTER AREA: Construction and Heavy Equipment	PREPARER: Jay Hocutt	Page 1 of 15
PROGRAM DESCRIPTION	CONCURRENCE/DATE: Nancy Pressley [Approval Signatu	3/24/25 re on File]
TITLE: CONSTRUCTION AND HEAVY EQUIPMENT PROGRAM	APPROVED BY/DATE: Jay Hocutt [Approval Signatu	3/24/25 re on File]
USQD 🛛 UCD 🗌 CAT X 🗌 EXEMPT 🗌	EFFECTIVE DATE: 4/3/2	25
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Exhibit L Mandatory Contractor Document: No 🗌 Yes 🔀	If an Interim Document, Expiration Date:	

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This document is approved for publicrelease per review by:Dave Lannom3/10/25UCOR ClassificationDateInformation and Control Office

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REVISION LOG			
	Effective		Pages
Revision	Date	Description of Changes	Affected
5	4/3/25	Intent change. Change in requirements for JPM evaluators and Inbound - Outbound inspectors. Removal of requirements for 31955 and 31713. Addition of module numbers for equipment categories of Inbound- Outbound Inspectors.	All
4	7/25/24	Intent change. Added section on recovery of equipment and included Form-3754.	2, 6-8, 10
3	12/8/22	Non-intent change. Updated company name and logo. Updated to terminology in DIR-UCOR-600 as necessary.	All
2	10/14/21	Intent change for IF-2021-0662. Added requirement for completion of LEARN module 31955, JPM-PDC Evaluator Designation, removed reference to Field Equipment Expert. Added United Cleanup Oak Ridge LLC (UCOR). Clarified equipment operator card issuing. Clarified work control requirements for recovery operations.	3, 6-10, 13
1	1/23/20	Intent change. Add new procedures covered under this program, for excavation/trenching, penetration and ground penetration. Clarify qualifications for Field Equipment Expert (FEE). Added exemption requirements for Job Performance Measurement (JPM) evaluator training. Added requirement for IH approval/survey prior to operating equipment indoors.	All
0	4/22/19	Initial issue in response to CAMS Report IF-2018-0749.	All

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PURPOSE	safe, Equip Unite	burpose of this plan/program is to provide direction and standardized, and consistent implementation of Constr pment (CHE) and associated Hoisting and Rigging (H& ed Cleanup Oak Ridge LLC (UCOR) on the Oak Ridge fsite work under UCOR contract.	ruction/Heavy &R) operations by
SCOPE	subcc suppo	plan/program applies to all CHE operations by UCOR ontractors as defined in Section O, Equipment utilized ort of UCOR managed projects unless addressed in the s plan/program description (PPD).	on the ORR in
MANAGEMENT EXPECTATIONS	opera super suppo safety	R Senior Management expects all operations involving tions to be conducted with the highest level of safety. visors, workers, subcontractors, and sub-tier contracto ort and comply with company policies and procedures awareness and a questioning attitude. Senior Manage nnel to be safety stewards in everything they do.	Managers, ors are expected to while maintaining
	NOT	E: The term SME throughout this PPD is synony of program manager.	mous with the titles
ROLES AND	А.	Program Owner	
RESPONSIBILITIES		Provides overall program guidance, support, resources the program, ensuring qualified and trained personnel proactive in the management of the program.	
	B.	Construction and Heavy Equipment (CHE) Progra	am Manager
		As the Subject Matter Expert (SME) for CHE, the CH provides expertise and guidance for all operations invo outlined in Section O of this PPD. The CHE Program CHE operations comply with company, state, and fed guidelines. The CHE Program Manager will also revio approve, as necessary, the purchase, rental, and use of service providers.	olving CHE as Manager ensures all eral regulations and ew, advise, and
	C.	Hoisting and Rigging (H&R) Program Manager	
		As the SME for H&R, the H&R Program Manager proguidance for all operations involving H&R. The H&R ensures all H&R operations comply with company, staregulations and guidelines. The H&R SME is the apprall equipment operator qualifications concerning H&F will also review, advise, and approve, as necessary, th and use of cranes and heavy equipment, when used fo and associated rigging hardware.	R Program Manager ate, and federal roving authority for R. The H&R SME ne purchase, rental,

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D. Roles and Responsibilities of Construction and Heavy Equipment and Hoisting & Rigging Subject Matter Experts

- 1. Serve as the UCOR Interpretative Authority and primary point of contact (for internal and external organizations) in their specific subject matter area.
- 2. Standards Management: Support the Standards Management Program (PROC-PQ-1805, *Requirements & Standards Management*) in their subject area. This includes:
 - **a.** Maintaining knowledge and awareness of governing standards (laws, regulations, and prime contract requirements including U.S. Department of Energy (DOE) Orders, Standards, and Directives);
 - **b.** Providing guidance and documented interpretations of governing standards to projects and functions as required;
 - **c.** Evaluating changes and their effect to governing standards for applicability to UCOR work; and
 - **d.** Initiating prime contract changes in response to changes to governing standards where applicable.
- 3. **Programmatic Documentation**: Develops and maintains UCOR company-wide policies, processes, program plans or descriptions, procedures (PROC-OS-1107, *Performance Document Process*), and subcontract proforma (PROC-PR-1002, *Processing Proforma Documents*) necessary to ensure effective management systems for performance of work in the subject area. This includes the flowdown of governing standards into company level documents and associated subcontract proforma.
- 4. Project Support:
 - **a.** Provide support and counsel to UCOR project organizations and deployed functional staff in the implementation of the subject matter programmatic documentation.

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- **b.** This support may include project specific applications or customizations, training or development of project deployed staff, development of project specific implementing documentation where required, participation in project management assessments to ensure effective and compliant implementation, incident investigations, and development of improvement or corrective actions where needed.
 - Any new training requirements identified by the SME will be reviewed by the Training Review Committee (TRC) prior to making any commitments to train personnel.
 - The SMEs will support development and review of requests for rental or purchase of heavy equipment or H&R equipment as well as contracted services.

5. Performance Measurement, Feedback, and Improvement:

- **a.** Provide support to UCOR independent and management assessments as required.
- **b.** Provide oversight of standards and requirements implementation.
- c. SMEs monitor company-wide performance and lead or support continuous performance improvement in their subject matter area. This may include:
 - i. Development and maintenance of performance measures and performance indicators;
 - ii. Analyzing performance data to identify adverse trends;
 - iii. Participating in or conducting root cause analyses where needed;
 - **iv.** Evaluating and responding to programmatic issues identified by internal or external assessments;
 - v. Development of improvements or corrective action plans.

E. Lift Truck Supervisor (LTS)

1. Perform field supervisor duties of forklift operations assigned them by the Area Project Manager (APM). LTSs are responsible for maintaining forklift standards in the field and for evaluating material handling activities that are off normal material handling tasks or critical material handling tasks as defined in PROC-FO-1040, *Lift Truck Operation*. This designation must be assigned by the project APM and approved by the CHE SME.

F. Job Performance Measurement Evaluators (JPME)

1. The JPME ensures Job Performance Measurements (JPMs) / Performance Description Checklist (PDC) / On-the-job training (OJT) evaluations are performed according to the applicable training module for the equipment on which they are qualified to perform the evaluation. JPMEs shall be UCOR instructor qualified and qualified (current) on the piece of equipment for which they are preforming the evaluation.

G. Inbound or Outbound Equipment Inspectors

1. Refer to PROC-FO-1039, *Construction Equipment Inspection and Maintenance Program*, for roles and responsibilities.

H. Work Control

1. The SMEs for the program shall be consulted for all work control documents created involving CHE and H&R, including work packages, technical procedures, work instructions, job hazard analyses (JHA), special permits.

I. Operations

- 1. CHE and H&R operations will be safely conducted according to the applicable UCOR procedures, Occupational Safety and Health Administration (OSHA) regulations, DOE Orders, and the manufacturer's operating manual.
- 2. The designated SME for CHE and/or H&R shall be consulted by Project Managers in operations involving CHE and H&R.
- **3.** Utilization of dunnage on all material/equipment movement will follow the following guidelines:
 - **a.** Material and equipment will be stored/staged on dunnage to facilitate future movements.
 - **b.** Material or equipment shall be stored so it can be lifted safely.
 - **c.** Dunnage shall meet the following specifications before use (consult U.S. Department of Transportation [DOT] requirements of use on trailers traveling on public highways).
 - i. Square shape (e.g., 4"x4", 6"x6", 8"x8")
 - **ii.** Made of material capable of supporting load (e.g., treated wood, metal)

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- **iii.** Length shall be such that at least one ft of dunnage extends on either side of the load or as required by DOT/Federal Motor Carrier Safety Administration (FMCSA).
 - **IF** a rectangular shape is used, **THEN** the dunnage must be placed on its long side (e.g., 2"x 4" will be laid over on the 4" side).
- **d.** Placement of dunnage shall be made by holding the dunnage, so the hands are never underneath the dunnage.
- e. During loading or off-loading any heavy equipment A zone should be set up around the hauling equipment that does not allow personnel to be under loads or near the equipment that is being loaded, unloaded, or being repositioned. The zone will be in place to keep employees in the area safe from equipment shifts, sliding off trailers, turning over, etc.
- **4.** A work zone shall be established according to PROC-EH-1013, *Accident Prevention Signs, Barricades and Other Postings*, for all CHE and H&R operations. This work zone posting shall include the requirements for entry, such as personal protective equipment (PPE), training, need to enter, etc.

J. Recovery of Inoperable Equipment

- 1. In the event a construction heavy equipment vehicle becomes stuck, mired, or otherwise placed in a position that it cannot recover under its own power, the following steps will be taken before a recovery effort begins.
 - **a.** Analyze/Discuss the conditions of the stuck/incapacitated vehicle/equipment with qualified individuals (i.e., supervisor, equipment operator):
 - FM
 - Ops Manager
 - Safety and Health (S&H)
 - Maintenance Supervisor
 - Work Planner
 - Other qualified individuals (e.g., Radiological Protection [RP], Industrial Hygiene [IH], Competent Person Rigger [CPRs])
 - **b.** Determine method of retrieval:
 - Towing
 - Pushing
 - Winching
 - Other self-recovery methods.

- c. Follow PROC-FS-1001, Integrated Work Control Program.
- **d.** For recovery actions requiring the use of rigging or rigging hardware, the H&R SME or designee shall be consulted.
 - i. IF towing, THEN complete Form 3754, Construction Heavy Equipment Recovery Plan.
- e. Vehicle Construction Equipment Spotter (VCES) requirements shall be determined if needed during recovery operations.
- f. IF pushing, THEN consult with SME and other qualified personnel to determine:
 - i. Approved pushing point,
 - ii. Acceptable equipment to perform pushing,
 - iii. Inspection of pushing equipment by qualified individual,
 - iv. Evaluate condition multipliers.
- **g.** Only operators who are trained to operate equipment used for recovery operations will be allowed to operate the recovery vehicle.
- **h.** H&R equipment used for towing and/or winching operations:
 - i. Only approved towing equipment and shackles that are rated to tow the recovery target shall be used.
 - **ii.** Rigging and rigging hardware items used in towing or recovery operations shall be removed from service until such time as a thorough inspection of the hardware can be conducted by a qualified rigging inspector per PROC-FO-1037, *Hoisting and Rigging Hardware Inspection, Testing, and Purchases.*
 - iii. IF rigging hardware used in recovery operation has been subjected to dynamic shock-loading, as determined by a qualified person, THEN
 - those suspected components shall be permanently removed from service per the requirements of PROC-FO-1037.

K. Communication

1. Communication throughout the organizations will be accomplished through periodic Safety Forums and Committee meetings for both CHE and H&R to inform the organizations of trending safety concerns, updated or new procedures, and to discuss the current culture of operational safety of the programs. Events or identified weaknesses involving CHE and H&R will be shared through email correspondence with all organizations to facilitate the prevention of repeat events.

L. Lessons Learned

- 1. OPEX Share will be an integral part of the program's toolbox tools for staying informed of lessons learned across the industry. Lessons learned will be shared at the bi-monthly Construction and Heavy Equipment Safety Forum and at the discretion of the SMEs.
- 2. The development of lessons learned for the program will be established according to PROC-PQ-1240, *Operating Experience/Lessons Learned Program*.

M. Training

- 1. SMEs for the program will continually evaluate and provide oversight of training for the qualifications of essential program personnel.
 - **a.** The CHE SME is responsible for establishing the training requirements of LTS, Equipment Operators, JPMEs, VCESs, and Inbound/Outbound Equipment Inspectors.
 - i. LTS See PROC-FO-1040.
 - **ii.** Equipment Operator See PROC-FO-1040, *Lift Truck Operations*, PROC-FO-3036, *Mobile Elevating Work Platform Operation*, and PROC-FO-3034, *Earth Moving Equipment Operation*.
 - iii. Qualified Forklift Inspector See PROC-ET-3016, *Inspecting and Testing of Forklift*.
 - iv. JPME – Designated and approved using Form-632, Instructor Qualification Record. Minimum two years demonstrated experience on equipment and qualified on equipment. JPME will be evaluated annually on the ability to satisfactorily perform the designated equipment evaluation according to PROC-TC-0717, *Instructional Staff Training and Qualification Program*. JPME may be granted an exemption based on Management recommendation, supervisory experience on the designated equipment, and CHE SME approval.

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v.	Inbound/Outbound Equipment Inspector – See
	PROC-FO-1039. Shall complete LEARN Module 31262,
	Qualified Equipment Inspector Inbound or Outbound Inspector
	classroom training and complete the JPM for equipment they
	are inspecting. (Earth Moving Equipment 34768, Forklifts &
	Tele-hander 34769, Mobile Elevating Work Platform 34767,
	Mobile Cranes 34766 and Construction Support Equipment
	37465).

- 2. The H&R SME is responsible for establishing the training requirements of CPR, Certified/Qualified Mobile Crane Operators, JPME, and Inbound/Outbound Equipment Inspectors.
 - **a.** CPR PROC-FO-1009, *Qualification and Performance as Competent Person Rigger and Crane Signal Person.*
 - b. Qualified Crane Inspector PROC-FO-1039
 - c. Qualified Rigging Inspector PROC-FO-1037
 - **d.** Person in Charge (PIC) PROC-FO-1008, *Hoisting and Rigging Operations*
 - e. Designated Leader (DL) PROC-FO-1008
 - **f.** JPME Designated and approved using Form-632, Instructor Qualification Record. Minimum two years demonstrated experience on equipment and qualified on equipment. JPME will be evaluated annually on the ability to satisfactorily perform the designated equipment evaluation according to PROC-TC-0717, *Instructional Staff Training and Qualification Program*.
 - g. Inbound/Outbound Equipment Inspector See PROC-FO-1039.
- 3. The SME for each program has the responsibility and authority to disqualify an operator for any equipment operation that is determined to be unacceptable based on observed or reported performance. Reinstatement of an operator will be at the discretion of the respective SME and supported by evidence or improved understanding and safe/compliant conduct of the expectations.

N. Quality and Assurance

- 1. Management assessments and self-assessments will be conducted in accordance with PROC-PQ-1420, *Management/Self-Assessments*.
- 2. SMEs for the program shall conduct periodic assessments, annually at minimum, of their respective programs as directed by the program owner. These assessments will be entered into the assessment scheduling software. The assessments will be reviewed and approved by the program owner upon completion.

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O. Equipment

- 1. The CHE and H&R Program applies to the following equipment used on UCOR Projects.
 - **a.** Mobile Elevating Work Platforms (MEWP) (formerly aerial lifts) will be operated according to PROC-FO-3036. The types of platforms include:
 - Boom
 - Bucket
 - Scissor
 - Self-Propelled Boom
 - b. Cranes will be operated according to PROC-FO-1008; 29 CFR 1926-1401, Subpart CC, Cranes and Derricks in Construction; 29 CFR 1910.179, Overhead Gantry Cranes; and American Society of Mechanical Engineers (ASME) B30.2-1967, Overhead and Gantry Cranes; and all subsequent updates. Types of cranes include:
 - Mobile
 - Trolley Supported (e.g., Overhead bridge, monorail, Gantry, etc.)
 - Other (e.g., CHE or other equipment used with rigging items to suspend a load as detailed in PROC-FO-1008)
 - c. Lift Trucks will be operated according to PROC-FO-1040;
 29 CFR 1910.178, Powered Industrial Trucks; ANSI B26.1, Safety Standard for Low Lift and High Lift Trucks; and ANSI B56.6,
 Safety Standard for Rough Terrain Forklift Trucks. Forklift classes are:
 - Class I Electric Motor Rider Trucks
 - Class II Electric Motor Narrow Aisle Trucks
 - Class III Electric Motor hand Trucks or Hand/Rider Trucks
 - Class IV Internal Combustion Engine Trucks (Solid/Cushion Tires)
 - Class V Internal Combustion Engine Trucks (Pneumatic Tires)
 - Class VI Electric/Internal Combustion Engine Tractors
 - Class VII Rough Terrain Fork Trucks/Telescopic Forklifts

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- **d.** Earth Moving Equipment will be operated according to PROC-FO-3034. *Types of Earth Moving Equipment* include:
 - Excavators (Track Hoes)
 - Backhoes
 - Bucket Loaders
 - Trenching equipment (e.g., ditch witch)
 - Dozers
 - Track Loaders (Skids steer on tracks or wheels)
 - Graders
 - Rollers
 - Farm Tractors
 - Forestry Equipment (e.g., Feller Buncher, Skidder, Log Loader)
 - Specialty Equipment (e.g., construction robots, bridge inspection unit, motorized glass handlers
 - Articulating dump trucks
 - Attachments (e.g. claws, grapplers, bush hog, shin grinder etc.)

P. Safety

- 1. When performing operations involving CHE and H&R, all personnel will ensure the concepts of Integrated Safety Management System (ISMS) are followed. Personnel will maintain a questioning attitude and will use STOP/Suspend work authority, when necessary, without fear of retribution.
- 2. Equipment operated indoors shall have the work area evaluated by Industrial Hygiene prior to operating equipment.
- **3.** PPE will be worn according to Work Control documents and applicable procedures.
- **4.** Equipment shall be secured from unauthorized use when idle or end of operations.
- 5. Load securement will be performed according to PROC-TR-9501, *Load Securement*

Q. Exceptions

- 1. The following equipment is not covered under this program:
 - Landscaping equipment (e.g., zero turn mowers)
 - Manually operated sampling/coring equipment
 - Vehicles covered under DOT and FMCSA regulations (unless part of the construction equipment) (e.g., carrier for a water truck or drill rig)

R. Acronyms/Definitions

- ANSI American National Standards Institute
- APM Area Project Manager
- ASME American Society of Mechanical Engineers
- CFR Code of Federal regulations
- **CPR** Competent Person Rigger
- $CHE-Construction/Heavy\ Equipment$
- DOE U.S. Department of Energy
- DOT U.S. Department of Transportation
- **EPA** Environmental Protection Agency
- FMCSA Federal Motor Carrier and Safety Administration
- H&R Hoisting and Rigging
- JPM Job Performance Measurement
- JPME Job Performance Measurement Evaluators
- LEARN Local Education Administrative Requirements Network
- LTS Lift Truck Supervisor
- **ORR** Oak Ridge Reservation
- **OSHA** Occupational Safety and Health Administration
- **PDC** Performance Description Checklist
- **PPD** plan/program description
- PPE personal protective equipment
- SME Subject Matter Expert
- UCOR United Cleanup Oak Ridge LLC
- VCES Vehicle Construction Equipment Spotter

S. References

- 10 CFR 851, Worker Safety and Health Program
- 29 CFR 1910, General Industry Regulations
- 29 CFR 1926, Construction industry Regulations
- ASME B30.2, Overhead and Gantry Cranes
- ANSI 92.2, Vehicle Mounted Elevating and Rotating Platforms
- ANSI/ITSDF B56.1-2018, Safety Standard for Low Lift and High Lift Trucks
- ANSI/ITSDF B56.6-2016, Safety Standard for Rough Terrain Forklift Trucks
- UCOR-4087, Safety and Health Handbook, Oak Ridge, Tennessee
- UCOR-4088, Environmental Compliance Awareness Handbook, Oak Ridge, Tennessee
- UCOR-4350, United Cleanup Oak Ridge LLC (UCOR) Training Requirements Matrix (TRM), Oak Ridge, Tennessee
- PPD-EH-1400, Integrated Safety Management System
- PPD-EH-1745, Worker Safety and Health Program
- PPD-EH-2009, Electrical Safety Program
- PPD-IH-5151, Respiratory Protection Program
- PPD-IH-5205, Airborne Silica Hazard Assessment and Control
- PROC-EH-1013, Accident Prevention Signs, Barricades, and Other Postings
- PROC-EH-2002, Hazardous Energy Control (Lockout/Tagout)
- PROC-EH-2005, Personal Protective Equipment
- PROC-ET-3016, Inspecting and Testing of Forklift
- PROC-FO-1004, Excavation/Trenching Permitting
- PROC-FO-1008, Hoisting and Rigging Operations
- PROC-FO-1009, *Qualification and Performance as Competent Person Rigger and Crane Signal Person*
- PROC-FO-1037, *Hoisting and Rigging Hardware Inspection, Testing, and Purchases*
- PROC-FO-1039, Construction Equipment Inspection and Maintenance Program
- PROC-FO-1040, Lift Truck Operation
- PROC-FO-1041, Crane Operator Certification/Qualification
- PROC-FO-1072, Penetration Permitting
- PROC-FO-3034, Earth Moving Equipment Operation
- PROC-FO-3036, Mobile Elevating Work Platform Operation
- PROC-FO-3037, Ground Penetration Permitting
- PROC-FP-2006, UCOR Program for Controlling Combustibles and Ignition Sources

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- PROC-FS-1001, Integrated Work Control Program
- PROC-IH-5121, Occupational Noise Exposure and Hearing Conservation
- PROC-IH-5206, Generation and Use of Industrial Hygiene Work Permits
- PROC-OS-1107, Performance Document Process
- PROC-PQ-1240, Operating Experience/Lessons Learned Program
- PROC-PQ-1420, Management/Self Assessments
- PROC-PQ-1805, Requirements & Standards Management
- PROC-PR-1002, Processing Proforma Documents
- PROC-TC-0710, Training Position Descriptions and Position Assignment Forms
- Form-856, STARRT card
- Standard Technical Specification SPG-000000-A005, Well Drilling, Installation and Abandonment, EPA Guidelines for Region 4 SESDGUID-101