
HOISTING AND RIGGING SAFETY	Manual	ESHQ
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1.0 PURPOSE AND SCOPE

(5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.17)

This Standard describes the Tank Operations Contractor (TOC) organizational roles and responsibilities for implementing the TOC Hoisting, Rigging, and Transport (H&R) Safety Program. DOE-RL-92-36, “Hanford Site Hoisting and Rigging Manual” (HSHRM), provides the baseline requirements for all Hanford Site H&R activities and is fully invoked by this Standard. In addition, this Standard provides specific methods for implementing portions of the HSHRM, and in some cases provides additional TOC requirements not contained in the DOE-RL-92-36. As such, this standard supplements but does not replace or supersede the Hanford Site Hoisting and Rigging Manual.

This standard applies to the TOC and subcontracted organizations that operate H&R equipment or perform Hoisting, Rigging, and Transport activities for the TOC.

Baseline forklift requirements are included in DOE-RL-92-36 and are also governed by the TOC H&R safety program. TFC-ESHQ-S_IS-C-07 provides requirements in addition to DOE-RL-92-36 for forklift operations conducted by or for the TOC.

TFC-PLN-02 “QUALITY ASSURANCE PROGRAM DESCRIPTION” Part II – Quality Assurance Requirements for Nuclear Facility Applications, American Society of Mechanical Engineers (ASME) NQA-1 2008 and addendum 2009, are applicable to hoisting, rigging and transport for TOC. NQA-1 2.15 lift classifications (A, B and C) are incorporated into this procedure using the crosswalk developed by Engineering, Quality Assurance, Safety, and Procurement in RPP-RPT-59465.

2.0 IMPLEMENTATION

This standard is effective on the date shown in the header.

3.0 STANDARD

Line management is responsible to maintain compliance with DOE-RL-92-36, “Hanford Site Hoisting and Rigging Manual,” (HSHRM) and additional TOC specific H&R safety program requirements set forth or referenced by this Standard. The H&R Safety Subject Matter Expert (SME) will provide guidance in interpretation of requirements and development of TOC-specific direction as necessary to assist in implementing the TOC H&R safety program.

This Standard is reviewed by the TOC H&R Committee. Committee members are responsible to communicate H&R issues within their respective organizations. A list of TOC H&R representatives is maintained on the H&R web page in the Safety and Health Toolbox (Point of Contact (POC) Listing).

3.1 Roles and Responsibilities

3.1.1 WRPS Safety and Health Level 2 Manager

The Washington River Protection Solutions LLC (WRPS) Safety and Health Level 2 Manager is responsible for:

- Implementing a H&R safety program applicable to WRPS and subcontractor organizations that is compliant with DOE-RL-92-36 and additional requirements specified or referenced by this Standard.

3.1.2 Industrial Safety Programs Manager

The Industrial Safety Programs Manager performs the following duties:

- Identifies a safety professional as the Safety Program H&R SME for the TOC.
- Identifies safety professionals for providing oversight of H&R activities conducted by or for the TOC.
- Implements a safety surveillance program to identify areas for improvement and validate compliance with H&R safety requirements.
- Participates in incident/accident investigations involving H&R equipment or services as necessary.

NOTE: Leadership of incident/accident investigations is typically performed by a designated representative of the organization responsible for the H&R activities at the time of an event, and in accordance with the requirements of TFC-OPS-OPER-C-14.

3.1.3 Safety Program Hoisting and Rigging Subject Matter Experts

The Safety Program Hoisting and Rigging SME performs the following duties:

- Provides guidance in interpretation of DOE-RL-92-36 and development of TOC-specific H&R requirements.
- Based on requirements set forth in DOE-RL-92-36 and in conjunction with the TOC training department, develops training and qualification guidelines for TOC and subcontractor personnel identified to perform H&R activities at or for the TOC.
- Provides Critical or Special Lift Determination in accordance with TFC-ENG-FAC SUP-C-25.
- Serves as chairperson for the TOC H&R Committee in accordance with TFC-CHARTER-31.
- Serves as the TOC safety program representative and voting member of the Hanford Site H&R Committee.
- Serves as the TOC safety program point of contact for review, communication, submittal, and approval of revisions to the HSHRM.
- Distributes H&R bulletins, evaluates for lessons learned (see TFC-OPS-OPER-C-28), and other significant H&R information.
- Participates in incident/accident investigations involving H&R equipment or services and subsequent corrective action development.

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- Performs oversight of Site Services and TOC construction subcontractors providing H&R equipment or services for the TOC.

3.1.4 Engineering Hoisting and Rigging Subject Matter Experts

The Engineering Hoisting and Rigging SME performs the following:

- Assigns qualified rigging engineers in accordance with TFC-ENG-FACSUP-C-25 as needed to support TOC H&R activities.
- Provides Critical or Special Lift Determination in accordance with TFC-ENG-FACSUP-C-25.
- Serves as core member of the TOC H&R Committee.
- Serves as TOC engineering program representative and voting member of the Hanford Site H&R Committee.
- Serves as TOC engineering program point of contact for review, communication, submittal, and approval of revisions to the Hanford Site H&R Manual.
- Distributes H&R bulletins, lessons learned, and other significant H&R information.
- Participates as needed in incident/accident investigations involving H&R equipment or services, and subsequent corrective action development.
- Provides rigging engineering services as required, including structural evaluation of items to be lifted, lift point evaluations, and lift plan design in accordance with applicable engineering instructions and procedures.
- Maintains the lifting point database.
- Develops, reviews, and approves critical lift plans and special lift instructions.
- Provides qualified Rigging Engineer review and approval of the procurement of all H&R equipment.

3.1.5 Production Operations, SST Retrievals, and Tank Farm Projects Managers

Production Operations, SST Retrievals, and Tank Farm Projects Managers perform the following:

- Designate a representative from each respective organization to participate as core members of the WRPS H&R Committee in accordance with TFC-CHARTER-31.
- Assign a Lead H&R Equipment Custodian to maintain accountability of company-owned and leased H&R equipment, and ensure required maintenance, repair, and inspections are current for equipment in use.

- Designate individual(s) as the primary point-of-contact between the TOC and the Site Services Contractor regarding crane and rigging contract issues.
- Assign a crane coordinator to provide day-to-day scheduling of site services mobile crane support for operations, projects, and construction and commissioning activities.
- Initiate investigation of events involving H&R activities and/or equipment, and participate in or oversee causal analysis identification and corrective action development as necessary.
- Include H&R SMEs (Safety and/or Engineering) in work planning, event investigations, and problem resolution as necessary. A list of TOC H&R representatives is maintained on the H&R web page in the Safety and Health Toolbox (Point of Contact [POC] Listing).

3.1.6 Manager of Construction

The Manager Construction performs the following:

- Establishes and communicates expectations, reviews, approves, and provides oversight for construction subcontracts involving H&R equipment or services.
- Enforces construction subcontractor compliance with H&R requirements stipulated in DOE-RL-92-36, and additional TOC requirements contained within or referenced by this standard.
- Assigns qualified H&R equipment custodian(s) to make sure H&R equipment used by construction subcontractor personnel is properly inspected, maintained, and tagged. The information on the tag shall contain the periodic inspection due date and any additional information as required by DOE-RL-92-36 and/or applicable manufacturer specifications.
- Ensures training and qualification of construction subcontractor personnel performing H&R activities for TOC are in compliance with DOE-RL-92-36. See Attachment A for guidance.
- Participates (or designates a representative) as a core member the TOC H&R Committee in accordance with TFC-CHARTER-31.
- Leads or participates in incident/accident investigations involving construction subcontractor H&R activities or services, as necessary.
- Involves H&R SMEs (Safety and/or Engineering) in work planning, event investigations, and problem resolution as necessary. A list of TOC H&R representatives is maintained on the H&R web page in the Safety and Health Toolbox (POC Listing).

3.1.7 TOC Organizations

All TOC organizations engaged in H&R activities are expected to:

- Conduct all H&R activities in compliance with DOE-RL-92-36, and additional TOC specific H&R requirements identified or referenced in this Standard.

- Assign equipment custodians as necessary to meet H&R equipment maintenance and accountability requirements as described in Section 3.1.11 of this Standard.
- Obtain the training and qualification to perform the duties and functions of Equipment Custodian for the assigned equipment custodian as defined in Section 4.0 of DOE-RL-92-36 by completing course 042870 (or equivalent).
- Conduct documented (e.g., safety surveillance report, Management Observation Program (MOP), Peer Safety Observation Program (PSOP), etc.) field oversight of crane, rigging, and forklift activities.
- Notify the shift office and the H&R Safety SME as soon as possible following any abnormal H&R event, and prior to any critique, fact finding meeting or incident investigation whenever possible. A list of TOC H&R representatives is maintained on the H&R web page in the Safety and Health Toolbox (POC Listing).
- Notify the H&R Contract Manager or Buyer's Technical Representative (BTR) of any H&R incident involving equipment and/or services procured from site services or other subcontractors.
- Review determination to return equipment (e.g., crane, hoist, etc.) to service following an abnormal event or equipment malfunction/repair. This review should include contacting the safety program H&R SME and/or Engineering H&R SME to assist in resolving questions or concerns prior to allowing affected equipment to resume operation in TOC facilities.
- Communicate facts surrounding any abnormal H&R event or equipment malfunction (including return to service determination) to applicable employees prior to resuming work with affected equipment.
- Notify shift office of a crane or hoist returning to service in TOC facilities following any abnormal H&R event involving the crane or hoist.
- Include H&R SMEs (Safety and/or Engineering) in work planning, event investigations, and problem resolution as necessary. A list of TOC H&R representatives is maintained on the H&R web page in the Safety and Health Toolbox (POC Listing).
- Prohibit unauthorized personnel to perform maintenance or repairs on H&R equipment.

NOTE: Authorized personnel are defined as those persons approved or assigned by the employer to perform a specific type of duty.

3.1.8 Field Work Supervisor FWS

All WRPS and subcontracted Field Work Supervisors (FWSs) overseeing H&R work activities are expected to:

- Stop work in the event hazardous conditions develop that may endanger personnel, equipment, or facilities.

- If a load is suspended from a crane take minimal action to place the load/crane in a safe condition and preserve the scene for further investigation.
- Do not allow work to continue under uncertain equipment conditions beyond stabilizing an eminently hazardous condition when possible to do so in a safe manner.
- Verify personnel are appropriately trained and qualified to perform assigned H&R activities.
- Enforce the expectation that all H&R work is to be performed in accordance with established requirements and procedures.
- Verify all cranes, forklifts, and rigging equipment have been inspected and operationally checked (as applicable) prior to use. See Section 4, “General Requirements.”
- Verify permanently attached lifting points have been inspected, and appropriately marked prior to use.
- Contact a Qualified Rigging Engineer for assistance in mitigating unresolved H&R or lifting point concerns prior to making the lift(s).
- Review and approve critical and special lifts.
- Confirm with the Designated Leaders (DL)/Lift Director and crane operator the weight of the load(s) to be lifted and the load chart rating of the crane at the maximum intended radius.
- Assign trained and qualified DL/Lift Director in accordance with DOE-RL-92-36.
- Verify form A-6003-884 is complete for special lifts, and all required signatures are present before allowing the lift to be performed.
- Perform pre-job briefings in accordance with TFC-OPS-MAINT-C-02.
- Stop work and notify the shift office following an unplanned crane, forklift, or other H&R event resulting in personnel injury, equipment failure or malfunction, uncontrolled movement/lowering of load, or near miss having the potential for personnel injury or equipment damage.
- Promptly notify the applicable equipment custodian whenever any problems are identified involving cranes, forklifts, or other H&R equipment.

3.1.9 Designated Leader/Lift Director

DLs/Lift Director are required for H&R activities requiring more than one person and are responsible for directing field H&R activities (Refer to DOE-RL-92-36, Section 2). Normal forklift truck material handling operations are not considered H&R activities and do not require a DL/lift director. DLs shall be trained and knowledgeable about the equipment operation and activities to be performed and qualification is based upon the equipment s/he will be directing. DLs shall meet the training requirements listed in the following table:

Equipment	Initial Training	Retraining (60 Months)
Cab and Floor-Operated Cranes	Basic Crane & Rigging Safety (040784 or equivalent)	Basic Crane & Rigging Refresher (040786 or equivalent) or maintain the qualification via OJE
Mobile Cranes	Basic Crane & Rigging Safety (040784 or equivalent) and one of the following: Advanced Rigging Qualifications (042310/042315 or equivalent) OR Mobile Crane Operation & Setup (042321 or equivalent) and Load Charts and Load Moment Indicators (LMIs) (042327 or equivalent)	Maintain Advanced Rigging Qualifications OR Mobile Crane Operation & Setup (042321 or equivalent) and Load Charts and Load Moment Indicators (LMIs) (042327 or equivalent)
Incidental Rigging	Basic Crane & Rigging Safety (040784 or equivalent)	Maintain Incidental Rigging Qualification
Equipment	Initial Training	Retraining (36 Months)
Forklift	Forklift Operational Safety (044470 or equivalent)	Forklift Operational Safety (044470 or equivalent) OR Maintain a Forklift Operator Qualification

DLs /Lift Director are also responsible for the following:

- Completing the Riggers and Operators Field Verification Checklist contained in A-6003-884 for special lifts prior to making the lift.
- Ensuring only approved equipment within calibration/inspection frequencies is used.
- Performing all lifts as designed and approved, or stop/pause the work to appropriately mitigate any concerns with the existing plan or procedure.
- Ensuring that the preparation of the ground conditions needed to support crane operations has been completed before crane operations commence when mobile cranes are used. If the operator, DL/lift director, or Assembly/Disassembly Director have concerns pertaining to ground conditions they shall notify the FWS.
- Performing pre-lift and pre-job requirements in accordance with DOE-RL-92-36.
- Confirming with the FWS and crane operator the weight of the load(s) to be lifted and the load chart rating of the crane at the maximum intended radius.

3.1.10 Designated Leader DL/Lift Director for Critical Lift

Designated Leaders for critical lifts shall meet the training requirements for Designated Leader described in section 3.1.8, and perform additional functions described in section 2.2.4 of DOE-RL-92-36.

3.1.11 TOC Lead Equipment Custodian

The TOC Lead Equipment Custodian will:

- Obtain training and qualification to perform the duties and functions of the position as defined in Section 4.0 of DOE-RL-92-36 by attending course 042870 (or equivalent).
- Be responsible for each crane, hoist, lift truck, below the hook lifting device, rigging hardware, and all other H&R equipment that requires scheduled maintenance, storage inspection, and record keeping.
- Maintain a master list of TOC owned and leased H&R equipment.
- Track and schedule required maintenance and inspection of TOC owned and leased H&R equipment.
- Maintain an equipment tagging program for TOC owned and leased H&R equipment.

NOTE: It is important that equipment users know who the custodian is and how to make contact with the custodian as may become necessary. This information should be attached to the equipment or included as part of the tagging method.

- Perform the functions and responsibilities of Forklift Truck Custodian as described in Chapter 6 of DOE-RL-92-36.
- Perform additional duties as listed in Chapter 2 of DOE-RL-92-36.

3.1.12 Safety

Field safety professionals are responsible for the following:

- Perform periodic field oversight of crane, forklift, and other H&R operations to ensure safe and compliant performance. Document observations on the Safety and Health Field Surveillance Report, MOP, and/or Problem Evaluation Request (PER) as applicable.
- Perform the duties of the responsible safety organization as defined in Section 2 of DOE-RL-92-36.
- Review and approve critical lift plans as specified in Chapter 3 of DOE-RL-92-36.

NOTE: The primary responsibility of the occupational safety representative in review and approval of critical lift plans is to assess the overall plan to ensure all industrial safety aspects of the work have been considered, and to identify possible discrepancies in the plan.

- Review and approve H&R processes in hostile environments as may be required in accordance with Chapter 18 of DOE-RL-92-36.
- Participate in H&R assessment activities as requested.
- Perform incidental safety inspections of TOC and subcontractor cranes, forklifts, and other H&R equipment (including cranes provided by site services).

3.1.13 Quality Assurance

(5.1.5, 5.1.6)

Quality Assurance is responsible for the following:

- Ensure at least one inspector is qualified to perform surveillances of mobile crane inspections.
- Perform periodic surveillances of cranes, forklifts and H&R equipment and operations conducted by and for the TOC.
- Regularly perform surveillances of pre-use and periodic inspections to ensure mobile crane components are operationally safe.
- Documenting surveillances in accordance with TFC-PLN-02.
- Participate in H&R assessment activities as requested.

NOTE: Tagging of any other items (e.g., cover plates, shield plugs, etc.) is at the discretion of the Area Engineer and/or Design Authority.

- For first time lifts of cover blocks, ensure tags are installed on each cover block listing the following information:
 - Work package number
 - Weight of cover block (in pounds)
 - Key block (if applicable)
 - Test date.

3.1.14 Training Department

The Training department is responsible for the following:

- Performing training organization responsibilities as defined in Chapter 2 of DOE-RL-92-36
- Periodically verifying crane operator training programs meet the requirements of DOE-RL-92-36 and Attachment A.
- Reviewing and approving training equivalencies and establish designators to identify equivalencies and document subcontractor H&R training
- Tracking and scheduling required training for personnel performing H&R activities

- Providing assistance in the development of subcontractor training/qualification equivalency determinations and associated record retention methods
- Provide training to subcontractors pertaining to working to TOC procedures.

3.1.15 Procurement Services

Ensure all hoisting and rigging material procurements and Statements of Work are reviewed and approved by a Qualified Rigging Engineer.

3.1.16 Interface Management

Involve Safety and Engineering SMEs in interface agreements with MSA for hoisting and rigging support.

3.1.17 Production Planning and 222-S Laboratory Services Work Control

Production Planning and 222-S Laboratory Services Work Control are responsible for:

- Ensuring that all planned H&R work is compliant with DOE-RL-92-36 and additional requirements established or referenced in this standard.
- Ensuring that work planners and others involved with planning H&R activities are appropriately trained in established H&R requirements.

3.1.18 Assembly/Disassembly Director

The Assembly/Disassembly Director (A/D Director) is responsible for:

- Directing both the assembly and/or disassembly of H&R equipment (cranes) including installing or removing counterweights, jibs, etc.
- Ensuring procedures for assembly and disassembly are appropriately developed (if not the manufacture's procedure), are current, and are properly implemented.
- Ensuring that the preparation of the ground conditions needed to support crane assembly and/or disassembly operations has been completed.
- Ensuring assembly and/or disassembly personnel understands his or her tasks, the hazards of the tasks, and any hazardous positions or locations to avoid and the use of fall protection if, required.

3.2 General Requirements

1. Any assembly and/or disassembly or re-configuration of a crane (e.g., installation or removal of a jib, re-reeving wire rope, removing load block/hook or headache ball, etc.) must be overseen by an A/D Director (designated competent/qualified representative) of the equipment custodial company/organization.
2. When a mobile crane is initially set up for making a lift or series of lifts, or is reconfigured for a specific purpose (e.g., re-reeving wire rope and/or installing the jib) a full range operational check (no load) in the same configuration as will be used for the

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lift(s) shall be performed prior to making the actual lift or series of lifts (Lesson Learned IB-08-048).

3. Outrigger pads must be used for all WRPS work activities requiring the use of a mobile crane. This provides greater ground stability for the crane and protection of equipment. Minimum requirements for the use of outrigger pads are determined using RPP-CALC-56716, "Soil Bearing Capacity for Crane Loads." A Qualified Rigging Engineer may be consulted to assist in determining outrigger pad sizing.
4. Mobile crane travel within tank farm boundaries requires a minimum of two spotters and should be done with crane hooks restrained whenever practical. If travel must be done with a hook unrestrained to allow boom movement, at least one of the spotters must be crane signal person qualified in order to assist in crane operation (e.g., boom movement) functions as necessary.
5. Vehicular traffic shall be controlled using standard signs and signals when cranes are stopped on roadways used by other motor vehicles.
6. Lifts in close tolerance situations where the potential exists for binding or where an item may be stuck in place (e.g., excessive rust, corrosion, paint, or other adhesive forces) must include some means of finer control, and not be lifted directly by the crane. Examples of finer control are use of chain hoist(s) with the crane and/or incorporation of a load cell and not to exceed limits. The means of finer control are to be used when the margin between the item to be lifted and the Recommended Not-To-Exceed (RNTE) is less than 100 lb.
7. Temperature controls must be applied to lifting operations as follows:
 - No lifts will be performed in temperatures below 10 °F (RPP-9551).
 - Rigging hardware used to perform lifts in temperatures below 30°F must have approval from the equipment manufacturer (Hanford Site Hoisting and Rigging Committee Bulletin, March 8, 2004).
 - Contact a qualified Rigging Engineer for questions regarding temperature limitations.
8. Crane operations must only take place under the direction of a qualified signal person and all crane team members must remain attentive to the task at hand at all times. (Lessons Learned IB-09-010).
9. Crane operators shall be familiar with unique features or characteristics of the specific crane they are assigned to operate prior to operation. This may require review of the crane and/or LMI manual(s) as well as discussion with supervision or other crane operators. Any unfamiliarity with the equipment must be resolved prior to operating the equipment. Prior to operating the GMK5135 (HO-17T-05695), crane operators must complete course #045136, "On the Job Training Operating HO-17T-05694."
10. Softening material must be used when rigging slings (especially synthetic) are subjected to abrupt or abrasive surfaces.

11. Minimum sling angle should be 45 degrees unless there are extenuating circumstances that justify using an angle less than 45 degrees. Rigging Engineer's authorization is required for a sling angle of less than 45 degrees.

3.3 Critical, Special and Ordinary Lifts

Chapter 3.0 of DOE-RL-92-36 provides guidelines, rules, and requirements applicable to critical lifts and describes the planning and documentation required to perform a critical lift. It also refers to lifts that are not considered critical lifts but require special precautions. These are referred to as Special Lifts. Items classified as Ordinary lifts are those that may be handled with conventional equipment using sound rigging practice.

A lift may be designated as a critical lift at the discretion of the responsible facility or project manager as well as the Safety H&R SME and Engineering H&R SME. A Lift Classification Checklist, (Form A-6006-727) may be used to assist in lift classification. A lift shall be designated critical based on the criteria in DOE-RL-92-36 and TFC-ENG-FACSup-C-25. Critical and special lift planning, and lifting point inspection shall also be done in accordance with TFC-ENG-FACSup-C-25.

3.4 Records

The following records may be initiated:

- Work Order
- Hoisting and Rigging Lift Instructions Determination Form (A-6003-884).

The record custodian identified in the Company Level Records Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.

4.0 DEFINITIONS

No terms or phrases unique to this standard are used.

5.0 SOURCES

5.1 Requirements

1. 29 CFR 1910, "Occupational Safety and Health Standards."
2. 29 CFR 1926, "Safety and Health Regulations for Construction."
3. ASME NQA-1 2008 and 2009 addendum, "Quality Assurance Requirements for Nuclear Facility Applications."
4. DOE-RL-92-36, "Hanford Site Hoisting and Rigging Manual."
5. TFC-PLN-02, "Quality Assurance Program Description."
6. TFC-PLN-32, "Tank Operations Contractor Safety Management Programs."
7. TFC-ESHQ-S_IS-C-07, "Powered Industrial Trucks."

5.2 References

1. ASME B-30 Series, "Safety Standards Committee for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks, and Slings."
2. ASME B56.1, "Safety Standard for Low Lift and High Lift Trucks."
3. ASME B56.6, "Safety Standard for Rough Terrain Forklift Trucks."
4. DOE-0360, "Hanford Confined Space Permit."
5. DOE-STD-1090-2001, "Hoisting and Rigging Standard."
6. RPP-CALC-56716, "Soil Bearing Capacity for Crane Loads."
7. RPP-RPT-59465, "Compliance Crosswalk for NQA-1 Subpart 2.15 to TOC Engineering Procedures and Programs."
8. TFC-BSM-IRM_DC-C-02, "Records Management."
9. TFC-CHARTER-31, "Hoisting and Rigging Committee Charter."
10. TFC-OPS-MAINT-C-02, "Pre-Job Briefings and Post-Job Reviews."
11. TFC-OPS-OPER-C-14, "Event Investigation Process."
12. TFC-ENG-FAC SUP-C-25, "Hoisting and Rigging."
13. TFC-OPS-OPER-C-10, "Vehicle and Dome Load Control in Tank Farm Facilities."
14. TFC-OPS-OPER-C-28, "Lessons Learned."

ATTACHMENT A – MEDICAL AND TRAINING REQUIREMENTS FOR CRANE AND FORKLIFT OPERATORS

Equipment	GENERAL REQUIREMENTS
<p align="center">CRANE OPERATOR QUALIFICATIONS</p>	<p>Crane operators must complete the following:</p> <ul style="list-style-type: none"> • Physical examination (initial and every 36 months thereafter) • Substance abuse test (initial and every 36 months thereafter) • Completion of H&R training for the type and class of equipment to be operated in accordance with DOE RL 92-36. <p>Acceptable Hoisting and Rigging training includes either:</p> <ul style="list-style-type: none"> • Possession of Certified Crane Operator’s card current within previous 60 months, OR • Completion of Hanford site H&R training (or equivalent). • Acceptance of previous crane operator training is conditional upon operators passing an oral or written examination and an onsite equipment specific OJE for the class of crane being operated within the previous 60 months. <p>Crane operator training must be commensurate with HAMMER Hoisting and Rigging Training Program Description.</p> <p>Crane operators must be certified by November 10, 2015.</p>
<p align="center">FORKLIFT OPERATOR QUALIFICATIONS</p>	<p>Forklift operators must complete the following:</p> <ul style="list-style-type: none"> • Site training for the specific class of forklift to be operated. OR • Submission of previous equivalent forklift operator training in accordance with DOE-RL 92-36. This requires documented evidence of the type and class of equipment and hours of experience, AND • Proof of Vendor or equipment manufacturer training compliant with 29 CFR 1910.178 (5.1.1) • Acceptance of previous forklift operator training is conditional upon operators passing an oral or written examination and an onsite equipment specific OJE for the class of forklift being operated within the previous 36 months. <p>NOTE: Physical exam and substance abuse testing requirements listed below apply to operators of forklifts designed for highway use with a gross vehicle weight rating of 26,001 lb or more.</p> <ul style="list-style-type: none"> • Physical examination (initial and every 36 months thereafter) • Substance abuse test (initial and every 36 months thereafter)