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# **DOE STANDARD**

# SAFETY AND HEALTH PROGRAM FOR DOE CONSTRUCTION PROJECTS



U.S. Department of Energy Washington, D.C. 20585

#### **TABLE OF CONTENTS**

FOREW	/ORD	3
1.0	INTRODUCTION	4
1.1	Scope	4
1.2	Purpose	4
1.3	Applicability	4
1.4	References	4
1.5	Definitions	5
2.0	CONSTRUCTION PROJECT SAFETY AND HEALTH PROGRAM	6
2.1	General	6
2.2	Construction Project Safety and Health Plan	6
2.3	Construction Manager Responsibilities	9
2.4	Construction Superintendent Responsibilities	9
2.5	Activity Hazard Analysis	10
2.6	Employee Training	15
2.7	Worksite Safety and Health Orientation	15
2.8	Activity Specific Training	15
2.9	"Tool Box" Safety and Health Training	15
2.10	Inspections and Hazard Abatement	16
2.11	Reporting, Recordkeeping, and Accident Investigation	17
APPEN	DIX A- SAMPLE Construction Project S&H Plan	18
APPEN	DIX B-SAMPLE CONTRACTOR CONSTRUCTION PROJECT CHECKLIST	23
	TABLE OF FIGURES	
Figure	1:	12
Figure	2:	14

#### **FOREWORD**

- 1. This Department of Energy (DOE) standard is approved for use by all DOE Components and their contractors. DOE Components include national Nuclear Security Administration (NNSA) sites and contractors at those sites.
- 2. Beneficial comments (recommendations, additions, deletions) and any pertinent data that may improve this document should be sent to the Office of Worker Safety and Health Policy (AU-11).
- 3. DOE Technical Standards, such as this standard, do not establish enforceable requirements. However, all or part of the provisions in a DOE standard may become enforceable requirements under the following circumstances:
  - they are explicitly stated as requirements in a DOE requirements document; or
  - the organization makes a written commitment to meet a Technical Standard in a contract or in an implementation plan or program plan required by a DOE requirements document.

Throughout this standard, the word "shall" is used to denote actions which must be performed if the objectives of this standard are to be met. If the provisions in this standard are made requirements through one of the two ways identified above, then the "shall" statements would become requirements. It is not appropriate to consider that "should" statements would automatically be converted to "shall" statements, as this action would violate the consensus process used to approve this standard.

#### 1.0 INTRODUCTION

#### 1.1 Scope

This Standard provides a framework for a construction safety program for use on DOE construction projects that will comply with the requirements of title 10, Code of Federal Regulations, part 851 (10 CFR 851); DOE Order (O) 440.1B, Worker Protection Program for DOE (Including the National Nuclear Security Administration) Federal Employees, and would be consistent with its accompanying Guide (G), DOE G 440.1-1B, Worker Safety and Health Program for DOE (Including the National Nuclear Security Administration) Federal and Contractor Employees, and DOE Policy (P) 450.4A, Integrated Safety Management Policy.

#### 1.2 Purpose

The intent of this Standard is to provide an effective methodology for managing the hazards inherent to construction work in a systematic manner that can be easily integrated with the management of other technical aspects of a construction project. It is written in a manner that facilitates its direct incorporation into the specifications of construction contracts between the DOE and construction contractors or DOE Management and Operating contractors and their construction subcontractors.

#### 1.3 Applicability

This Standard applies to construction contractors and their subcontractors performing work on DOE construction projects.

#### 1.4 References

- 10 CFR 851
- DOE O 440.1B
- DOE G 440.1-1B
- DOE P 450.4A
- 29 CFR 1926
- Federal Acquisition Regulation (FAR), part 36, which establishes policies and procedures for Federal contracting for construction and architect-engineer services.

#### 1.5 Definitions

**Construction.** Combination of erection, installation, assembly, demolition, or fabrication activities involved to create a new facility or to alter, add to, rehabilitate, dismantle, or remove an existing facility. It also includes the alteration and repair (including dredging, excavating, and painting) of buildings, structures, or other real property, as well as any construction, demolition, and excavation activities conducted as part of environmental restoration or remediation efforts.

**Construction Contractor.** The lowest tiered contractor with primary responsibility for the execution of all construction work described within a construction procurement or authorization document (*e.g.*, construction contract, work order). Depending on the contracting situation, the construction contractor may be the management and operating contractor if the work is performed directly by its forces or it may be a subcontractor to the management and operating contractor or a subcontractor to a separate construction management contractor.

**Construction Manager.** The individual or firm responsible to DOE for the supervision and administration of a construction project to ensure the construction contractor's compliance with construction project requirements. The construction manager could be the management and operating contractor if the construction work is performed by a subcontractor to the management and operating contractor. It could also be a separate firm hired by DOE or the management and operating contractor to perform construction management services.

**Construction Project.** The full scope of activities required on a construction worksite to fulfill the requirements of the construction procurement or authorization document.

**Construction Project Acquisition Documents.** Documents by which construction services to be procured are described and solicited. These include the request for proposal or the invitation for bids, the plans and specifications and other standards referenced therein, work orders, or other requisitions for construction services.

**Construction Superintendent.** The individual designated by the construction contractor as responsible for the performance of all aspects of the work described in the project documents including implementation of the project safety and health program. The Construction Superintendent shall have full authority to act for the Construction Contractor.

**Construction Worksite.** The area within the limits necessary to perform the work described in the construction procurement or authorization document. It includes the facility being constructed or renovated along with all necessary staging and storage areas as well as adjacent areas subject to project hazards. It does not include offsite offices of design personnel nor the facilities of fabricators or suppliers.

**Host.** The contractor or organization with the primary landlord responsibility at a DOE sponsored facility.

**Federal Project Director (FPD).** The DOE official responsible for overseeing construction project activities to verify that they are carried out in compliance with Federal, State, and local regulations, laws, and standards for protection of the safety and health of employees and the public.

**Project Phase.** A separately definable portion of a project involving a type of work presenting hazards not experienced in previous project operations or an operation performed by a different subcontractor.

#### 2.0 CONSTRUCTION PROJECT SAFETY AND HEALTH PROGRAM

#### 2.1 General

The construction contractor shall establish and maintain a program to protect the safety and health of all persons on the construction worksite to include his or her employees, employees of other contractors or subcontractors, visitors, and the public. This program also shall protect against damage to property, materials, supplies, and equipment and prevent unnecessary work interruptions. The objective of the program is to ensure compliance by the construction contractor and all worksite subcontractors with the safety and health standards prescribed in the construction project acquisition documents. The word "program" is used to describe the safety and health requirements and the word "plan" in Section 2.2 describes the contractor's project-specific written proposal to implement these requirements.

#### 2.2 Construction Project Safety and Health Plan

Prior to commencing any work on the project worksite, the construction contractor shall prepare and have approved by the construction manager a site-specific written project safety and health plan that meets the requirements of 10 CFR 851. This plan is the construction contractor's proposal for implementing the safety and health requirements prescribed by the construction project acquisition documents. Understanding that the project safety and health plan is submitted prior to work starting and that some project-specific information is not yet known (e.g., subcontractors to be used, type of fall protection to be used at a certain point in time, specific cranes etc.), the known information shall be provided and additional information added at each preparatory phase/meeting along with the appropriate Activity Hazard Analyses (AHAs).

2.2.1 The plan need not duplicate any preexisting host safety and health policies or procedures by the contract. The plan shall address minimally the following (as applicable):

- Statement of construction contractor safety and health policy;
- Employee rights and responsibilities. Workers have the right to stop work when the
  worker discovers employee exposures to imminently dangerous conditions or other
  serious hazards, provided that any stop work authority must be exercised in a
  justifiable and responsible manner in accordance with procedures established in the
  approved worker safety and health program;
- Identity of construction superintendent and other construction contractor
  personnel to be assigned safety and health duties on the worksite, their
  qualifications, and their respective duties. The plan shall also identify any other
  individual(s) the construction contractor proposes to authorize to act during periods
  of construction superintendent absence;
- Proposed format and methodology for performing hazard analyses for both pre-existing site hazards as well as new hazards that will be introduced to the construction worksite by the construction activity;
- Plans for worksite safety and health orientation and continued safety training;
- Disciplinary policy;
- Alcohol and drug abuse policy;
- Host safety and health policies or procedures applicable to the project (e.g., confined space, lock out/tag out);
- Procedures for coordinating with other site contractors on safety and health issues;
- Project hazard communications program;
- General construction hazards and the applicable policies and procedures for addressing these hazards;
- Use and maintenance of personal protective equipment generally required on the project worksite (e.g., hard hats, eyewear, protective footwear);
- · First aid and medical facilities;
- Fire prevention and control;
- Emergency response procedures to include local warning and evacuation systems;

- Procedures for reporting or correcting unsafe conditions or practices;
- Procedures for reporting and investigating accidents and incidents;
- Project safety and health recordkeeping procedures;
- Maintenance of and employee access to exposure monitoring data and medical records;
- Fall protection and prevention;
- Electrical safety (consistent with DOE-HDBK-1092-2013);
- Hoisting and rigging (consistent with DOE-STD-1090-2011);
- Load Handling, Material Movement and Transport Control Plan;
- Industrial Hygiene (Exposure Monitoring/Assessment);
- Accident Investigation;
- Identification of subcontractors and suppliers;
- Safety responsibilities of subcontractors and suppliers;
- Heat Stress Monitoring Plan;
- Cold Stress Monitoring Plan;
- Hearing Conservation Program;
- Site Layout Plan;
- Access/Haul Road Plan;
- Bloodborne Pathogen Program;
- Medical Support Agreement;
- Crystalline Silica;
- Beryllium;
- Radiation;

- Asbestos;
- Lighting Plan for Night Operations;
- Traffic Control Plan;
- Standard Pre-Lift Plan;
- Critical Lift Plan;
- Excavation/Trenching Plan;
- Erection and Removal Plan for Formwork and Shoring;
- Precast Concrete Plan;
- Lift-Slab Plans;
- Masonry Bracing Plan;
- Steel Erection Plan; and
- Safeguards and Security Plan.
- 2.2.2 The approved project safety and health plan shall be maintained on the worksite and shall be made available upon request to the construction manager, project manager, worksite employees, employee representatives, and other DOE personnel with assigned oversight responsibilities. This plan should be updated, as required, based on lessons-learned or change in scope and conditions. Each sub-contractor shall be provided a copy of the project safety and health plan by the prime contractor and be required to comply with it. See Appendix A for examples of checklists that may be utilized in the evaluation of the project safety and health plan.

#### 2.3 Construction Manager Responsibilities

2.3.1 The construction manager is responsible for approving the activity hazard analyses that are prepared by the construction contractor

#### 2.4 Construction Superintendent Responsibilities

2.4.1 The construction superintendent is responsible for implementation of the construction project safety and health plan. The superintendent or another duly designated construction contractor representative must be present on the worksite

during the performance of any project work activities (refer to FAR 36.506 for fixed-price construction and FAR 36.519 for cost reimbursement construction). In the absence of activity on the construction worksite, such as during lunch breaks, there is no need for the presence of a designated representative. However, if construction continues during the designated representative's lunch break, the contractor must ensure that another representative is designated and present onsite.

- 2.4.2 In no case shall the requirement for, or the presence of, dedicated project safety and health personnel relieve the construction superintendent of full and complete responsibility for compliance with all project safety and health requirements.
- 2.4.3 The construction superintendent is responsible for ensuring that all project subcontractors comply with project safety and health requirements. The construction superintendent is further responsible for coordinating with project subcontractors and other site contractors those safety and health plan elements, addressing worksite hazards to which employees of other contractors may be exposed.

#### 2.5 Activity Hazard Analysis

Prior to commencement of work on any project phase, the construction contractor shall prepare and have approved by the construction manager an AHA of all hazards associated with each separately definable construction activity prior to the start of each discrete construction activity within the project. These activities will likely occur at different stages of the overall project and the AHA's may be prepared as the project progresses or all at one time (see Figures 1 and 2 for sample formats). The number of activities for which an AHA is required is not limited to those identified in the project safety and health plan, as the actual number of activities may differ from the anticipated number due to variations in subcontractors, construction operations, or job sequence. The need for personal protective equipment does not dictate the need to perform an AHA. DOE uses the AHA as part of a total risk management process. Contractors and other individual employers may use the AHAs or their own version (Job Safety Analyses (JSAs), Job Hazard Analyses (JHAs), or similar Risk Management assessment tools). These documents are considered equivalent to, and acceptable substitutes for, the DOE AHA, provided that the data collected is the same as that required by the AHA.

The AHA defines the work sequence, anticipated hazards, conditions, equipment, materials, personnel, and the control measures to be implemented to eliminate or reduce each hazard. The AHA, through the identification of workplace hazards, dictates the need for workplace controls and protective equipment. For each project activity, the AHA shall:

Identify the specific hazards, including the use or presence of any hazardous chemicals,

associated with each activity to be performed, as well as the actual corrective measures planned to control these hazards. In planning controls to address identified hazards, due consideration shall be given to the hierarchy of controls (i.e., elimination or substitution of the hazards where feasible; engineering controls, work practices, and administrative controls; and personal protective equipment) as described in 10 CFR 851.22 (b).

- Include drawings and/or other documentation for all protective measures for which the construction project acquisition documents or applicable safety and health standards prescribe preparation by a Professional Engineer or other qualified person.
- Identify the competent person who will conduct specific inspections as required by the construction project acquisition documents or applicable safety and health standards.
- Identify any prerequisite employee training or certifications needed to accomplish the activities listed for each project phase.
- The AHA should be reviewed and modified as necessary to address changing site
  conditions, operations, or change of competent/qualified persons. If the AHA is
  modified, affected employees need to acknowledge the changes.
- Require that workers acknowledge being informed of the hazards and protective measures of the assigned work.

# Figure 1: Activity Hazard Analysis

	PROJECT PHASE:		
ANALYZED BY/DATE:		APPROVED BY/DATE:	

ACTIVITY	POTENTIAL SAFETY/HEALTH HAZARDS	PLANNED CONTROLS
Identify each principal activity for the project phase in sequence.	List the hazards associated with each principal activity.	List specific controls for each potential hazard (elimination or substitution; engineering controls; administrative controls; or personal protective equipment).
EQUIPMENT INSPECTIONS	JOBSITE INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
List equipment requiring preoperational or periodic inspections.	List specific jobsite inspection requirements to include identity and qualifications of competent person(s) or other qualified personnel performing inspections.	List worker training requirements

**Activity Hazard Analysis** 

Track Numb	ing/Submittal per	Company			Created By	Date
Proje	ct				Construction Manage	er Date
Task				Competent Person	Confined Space Energized Worl	Dig/Blind Penetration ☐ Lift Plan k ☐ Other
Step	Description	on	Haz	ard	Control Measures	Training Requirements
						- Insequin entrenes

Figure 2:

Worker Acknowledges That They Have Been Briefed on the Hazards and Control Measures In Place

Print Name	Signature	Date	Print Name	Signature	Date

#### 2.6 Employee Training

The construction contractor shall ensure that each employee entering the worksite has thorough experience, training, and where required, the certification, skills, and knowledge necessary to safely perform his or her assigned tasks. This training shall include an initial worksite safety and health orientation, phase-specific training addressing foreseen hazards and control measures associated with each phase of work upon which the employee is active, and continued safety and health "tool box" training. All training should be conducted by qualified personnel and should be communicated in a language understood by all employees.

#### 2.7 Worksite Safety and Health Orientation

2.7.1 Each employee shall receive an initial safety and health orientation prior to performing any work on the project worksite. The orientation shall include a detailed review of the contents of the approved construction project safety and health plan, including provisions for subsequent employee access to the plan.

Construction contractors with a continual onsite presence or with multiple projects utilizing the same work force may provide the orientation prior to commencing work on the employee's first onsite project and on a periodic basis, as determined locally, thereafter. Orientation on items that vary from project to project shall be provided for each project.

#### 2.8 Activity Specific Training

Prior to commencing any phase of work, the construction contractor shall review the approved activity hazard analysis for that phase with all employees on the affected work crew and provide training to ensure that all employees understand the potential hazards and the required protective measures. A copy of each activity hazard analysis shall be annotated with the name, signature, and date of attendance of all workers who have attended this training. The construction contractor shall provide advance notice to the construction manager for all phase-specific training sessions. Further phase-specific training sessions shall be conducted for new employees on the work crew, under changing site conditions, or at the discretion of the construction manager to reinforce employee understanding of project safety and health requirements.

#### 2.9 "Tool Box" Safety and Health Training

The construction contractor shall conduct informal "tool box" safety and health training sessions at least weekly for all employees on the worksite. Depending on the size and nature of the project, this may be accomplished in single or multiple sessions and may

address different topics for different work crews.

The construction contractor shall notify the construction manager of the time and location of all scheduled "tool box" training sessions. Outlines of all "tool box" training sessions shall be prepared by the construction contractor and annotated with the date, time, and names of all employees in attendance.

#### 2.10 Inspections and Hazard Abatement

- 2.10.1 During periods of active construction, the construction contractor shall ensure that a designated representative who is knowledgeable of the project's hazards and has full authority to act on behalf of the construction contractor conduct frequent, regular, and thorough inspections of their respective areas of the worksite to identify and correct hazards and instances of noncompliance with project safety and health requirements and approved activity hazard analyses. The superintendent and other project supervisory staff shall also include safety as a topical item as part of their routine review of project operations.
- 2.10.2 The construction contractor shall take immediate corrective action to eliminate or control all identified hazards. Newly identified hazards shall be appropriately addressed in revised activity hazard analyses. In cases where immediate corrective action is not possible or responsibility for abatement falls outside the scope of the project, the construction contractor shall:
  - Immediately ensure all affected employees are aware of the hazard and its location and are removed from harm's way. This may require partial or complete suspension of construction operations.
  - Immediately post warning signs at the location of the hazard describing the nature of the hazard.
  - Verbally notify the construction manager immediately of the location and description of the hazard. This notification shall be followed up in writing.
  - Implement further interim control measures, as needed, to protect employees from the identified hazards and secure construction manager approval for continued use of the employed measures.
  - Where responsibility for abatement falls outside the project scope, the construction contractor shall also immediately notify the authority responsible for safety and health management in the affected facility.

2.10.3 All identified hazards and their respective corrective actions shall be documented in project inspection reports. The responsibility and timetable for abating hazards that were not immediately corrected shall also be similarly documented. Follow-up inspections to ensure subsequent abatement of such hazards should be likewise documented.

#### 2.11 Reporting, Recordkeeping, and Accident Investigation

The construction contractor shall comply with reporting, recordkeeping, and accident investigation requirements prescribed in the construction project acquisition documents.

#### 2.11.1 Training Records

The construction contractor shall ensure that records of all required training are maintained and made available, upon request, to the construction manager, Federal project director and other DOE personnel with assigned oversight responsibilities.

APPENDIX A- SAMPLE Construction Project S&H Plan							
Location (Plant or Facility)			Contract Number				
Contractor Name			Project Name				
		-					
Inspector Name (Print)		Inspe	ector Sig	ınature			
This checklist serves as a guide only; it does not repl forth in 10 CFR 851.	ace or	r elimi	nate the	e need to comply	with the requirements set		
Item Description	Yes	No	N/A	Remarks (Any N	NO or N/A item)		
a. Signature sheet							
1. Includes the name, title, signature, telephone number, and qualifications of the Plan Preparer ( <i>Qualified person</i> , <i>i.e. corporate safety staff person</i> )							
2. Includes the name, title, signature, telephone number, and qualifications of the Plan Approver (e.g. owner, company president, regional vice president)							
3. Includes the name(s), title(s), signature(s), telephone number(s), and qualifications for Plan Concurrence (provide concurrence of other applicable corporate and project personnel (contractor)) (e.g. Chief of Operations, Corporate Chief of Safety, Corporate Industrial Hygienist, project manager or superintendent, project safety professional,)							
b. Background information							
1. Includes the Contractor Name.							
2. Includes the Contract Number.							
3. Includes the Project Name.							
4a. Includes the Brief Project Description.							
4b. Includes a Description of the Work to be Performed.							
4c. Includes the Location of the Project (map).							
4d. Includes the Equipment to be Used.							
4e. Includes the Anticipated High Risk Activities.							
5. Includes the Major Phases of Work Anticipated. (Within these major phases of work identified, activities to be performed that will require an AHA shall be specifically highlighted.							
APPENDIX A- SAMPLE Construction Project S&H Plan (cont'd)  Date of Review							
Item Description	Yes	No	N/A	Remarks (Any N	NO or N/A item)		
c. Statement of Safety and Health Policy.							
1. Provide a copy of current corporate/company Safety and Health Policy Statement, detailing commitment to providing a safe and healthful workplace for all employees. ( <i>In addition to the corporate policy statement, a copy of the corporate safety program may provide a portion of the information required by the accident prevention plan.</i> )							

2. Includes Contractor's written safety program goals.					
Includes Contractor's written safety program objectives.					
4. Includes the Contractor Accident Experience ( <i>Copy of OSHA 300 Forms</i> ).					
d. Responsibilities and Lines of Authority.		_	_		
1. Includes statement of the employer's ultimate responsibility for all employees, all sub-contractors and all others on the worksite (includes the strict enforcement of the program).					
Includes the identification and accountability of personnel responsible for safety and health at both the corporate and project level – including their resumes.					
3. Includes the names of Competent (CP) and/or Qualified Person(s) (QP) and proof of competency/qualification to meet specific OSHA CP/QP requirements. (Must include copies of proof of CP/QP).					
4. Includes requirements and details of the safety analysis process. (DOE uses the Activity Hazard Analysis (AHA). Contractors and other individual employer's may use the AHAs or their own version [Job Safety Analyses (JSAs), Job Hazard Analyses (JHAs), or similar Risk Management assessment tools]. These documents are considered equivalent to, and acceptable substitutes for, the AHA provided the data collected is the same as that required by the AHA.)					
5. Includes requirements for initial activity-specific AHAs to be submitted and accepted at preparatory meetings, prior to work being performed;					
<ol><li>Includes requirements that no work by the Contractor shall be performed unless a designated representative is present on the job site.</li></ol>					
7. Includes policies and procedures regarding non-compliance with safety requirements (to include disciplinary actions for violation of safety requirements).					
8. Lines of authority.					
9. Includes written company procedures for holding managers and supervisors accountable for safety.					
APPENDIX A- SAMPLE Construction (cont'd)	n P	roje	ct S&	H Plan	Date of Review
Item Description	Yes	No	N/A	Remarks (Any I	
e. Subcontractors and Suppliers.	. 55	10	- 4/1	i i i i i i i i i i i i i i i i i i i	
1. Includes the list of subcontractors and suppliers. (If not known at the time of initial Plan submittal, the contractor shall include the following statement in their initial Plan: "The subcontractors for the following activities are not known at this time, but additional information will be submitted to the Plan for acceptance prior to the start of any activities listed")					
2. Includes safety responsibilities of subcontractors and suppliers.		Щ			
f. Training					
1. Includes requirements for new hire orientation training at the time					

2. Includes requirements for mandatory training and certifications that are applicable to this project (e.g., explosive actuated tools, confined space entry, crane operator, vehicle operator, HAZWOPER training and certification, PPE) and any requirements for periodic retraining / recertification.						
Includes procedures for periodic safety and health training for supervisors and employees.						
Includes the requirements for emergency response training.						
g. Safety and Health Inspections		<u>'</u>				
Includes specific assignment of responsibilities for a minimum						
daily jobsite inspection during periods of work activity.						
1a. Includes the name(s) of individual(s) responsible for conducting safety inspections. (e.g., project manager, safety professional, supervisors, employees)						
1b. Includes proof of inspector's training / qualifications.						
1c. Indicates when inspections will be conducted.						
1d. Indicates procedures for documentation. (Furnished sample forms upon which inspections will be recorded.)						
1e. Indicates deficiency tracking system and follow-up procedures.						
2. Includes any external inspections / certifications which may be required.						
h. Accident Reporting and Investigation						
1. The plan identifies how, when, and who shall complete the total - hours worked.						
2a. The plan identifies how, when, and who shall complete accident investigations, reports, and logs.						
2b. The plan identifies how, when, and who shall make immediate notification of accidents.						
2c. Includes how, when, and who will provide notice to the CM when corrective actions are completed. (Implement corrective actions as soon as reasonably possible.)						
APPENDIX A- SAMPLE Construction	n P	roje	ct S&	H Plan		
(Cont'd)					Date of Review	
Based on a risk assessment of contracted activities and on mandatory DOE/OSHA compliance programs, the Contractor shall address all applicable safety and occupational health risks and associated compliance plans.  Plans, programs, procedures (assessments and evaluations), may include but not be limited to:						
(1)Include a project-specific compliance plan, as applicable to the work being performed, and as identified below. The plans shall incorporate project-wide procedures to control hazards to which the employees of all project employers may be exposed. (2) These procedures shall be coordinated with all project employers and shall include project-specific, project-wide emergency response and evacuation procedures, PPE requirements, recordkeeping and reporting requirements, and training requirements. (3) The plans shall be prepared prior to the start of any work activities on the job						
site (as much as the information can be known at that point in time). The plans shall be updated throughout the life of the project to include changes in personnel, equipment, conditions, etc. Additional revisions shall be incorporated as necessary to reflect changing site conditions, construction methods, personnel roles and responsibilities and construction schedules. (4) No activity shall be started on site until the Plan is revised and submitted to the CM for acceptance, with the site-specific plans, programs and procedures required to complete the project.						
Item Description	Yes	No	N/A	Remarks (Any NO	or N/A item)	
i. Plans (Programs, Procedures, Assessments, and Evaluations) required by the Safety Manual						
1. Fatigue Management Plan						

2. Emergency Plans	П	П	П		
(a) Procedures & Test					
(b) Spill Plans					
(c) Fire Fighting Plan					
(d) Posting of Emergency Telephone Numbers					
(e) Plan for prevention of alcohol and drug abuse					
3. Site Sanitation/Housekeeping Plan					
4. Medical Support Agreement. Outline on-site medical support and off-site medical arrangements including rescue and medical duties for those employees who are to perform them, and the name(s) of on-site Contractor personnel trained in first aid and CPR.					
5. Bloodborne Pathogen Program	Ш				
6. Exposure Control Plan					
7. Site Layout Plan					
8. Access/Haul Road Plan					
9. Hearing Conservation Program					
10. Respiratory Protection Plan					
11. Health Hazard Control Program					
12. Hazard Communication Program					
13. Process Safety Management Plan					
, ,					
14. Lead Compliance Plan	ш				
, ,					
14. Lead Compliance Plan	nd on isks a	mand	latory D	OE/OSHA compl	
14. Lead Compliance Plan 15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities as Contractor shall address all applicable occupational in	nd on isks a	mand nd co	latory D mpliand	OE/OSHA compl	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities as Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan 15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities as Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities as Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities as Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
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14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities as Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan  19. Indoor Air Quality Management Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
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14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to litem Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan  19. Indoor Air Quality Management Plan  20. Mold Remediation Plan  21. Chromium Exposure Evaluation  22. Crystalline Silica Assessment	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan  19. Indoor Air Quality Management Plan  20. Mold Remediation Plan  21. Chromium Exposure Evaluation  22. Crystalline Silica Assessment  23. Lighting Plan for Night Operations	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational reassessments and evaluations), may include but not be limited to litem Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan  19. Indoor Air Quality Management Plan  20. Mold Remediation Plan  21. Chromium Exposure Evaluation  22. Crystalline Silica Assessment  23. Lighting Plan for Night Operations  24. Traffic Control Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational in (assessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan  19. Indoor Air Quality Management Plan  20. Mold Remediation Plan  21. Chromium Exposure Evaluation  22. Crystalline Silica Assessment  23. Lighting Plan for Night Operations  24. Traffic Control Plan  25. Fire Prevention Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures
14. Lead Compliance Plan  15. Asbestos Abatement Plan  APPENDIX A- SAMPLE Construction (Cont'd)  Based on a risk assessment of contracted activities at Contractor shall address all applicable occupational reassessments and evaluations), may include but not be limited to Item Description  i. Plans (Programs, Procedures) continued.  16. Abrasive Blasting Plan  17. Heat Stress Monitoring Plan  18. Cold Stress Monitoring Plan  19. Indoor Air Quality Management Plan  20. Mold Remediation Plan  21. Chromium Exposure Evaluation  22. Crystalline Silica Assessment  23. Lighting Plan for Night Operations  24. Traffic Control Plan  25. Fire Prevention Plan  26. Wild Land Fire Management Plan	nd on risks a	mand nd co	latory D mpliand	OE/OSHA compl ce plans. Plans, pro	iance programs, the ograms, procedures

30. Critical Lift Plan	ΙП		11	П		
31. Fall Protection and Prevention Plan			7			
32. Demolition/Renovation Plan (to include engineering survey))	H	╁╞	11			
33. Excavation/Trenching Plan	$\overline{\Box}$	17	7			
34. Fire Prevention and Protection Plan for Underground						
Construction						
35. Compressed Air Work Plan for Underground Construction			$\rfloor \parallel$			
36. Erection and Removal Plan for Formwork and Shoring						
37. Precast Concrete Plan						
APPENDIX A- SAMPLE Construction (Cont'd)						Date of Review
Based on a risk assessment of contracted activities a Contractor shall address all applicable occupational r (assessments and evaluations), may include but not be limited to	isks a					
Item Description	Yes	N	lo	N/A	Remarks (Any N	NO or N/A item)
i. Plans (Programs, Procedures) continued.						
38. Lift-slab Plans						
39. Masonry Bracing Plan						
40. Steel Erection Plan						
41. Explosives Safety Site Plan						
42. Blasting Plan						
43. Tree Felling Program						
44. Confined Space Entry Procedures						
45. Electrical Safety Program						
j. Detailed project-specific hazards and controls shall be provided by Activity Hazard Analysis for each activity. No work will begin on an activity until the initial AHA has been accepted by the CM addressing the project-specific hazards. Note: DOE uses the Activity Hazard Analysis (AHA) as part of a safety analysis process. Contractors and other individual employer's may use the AHAs or their own version [Job Safety Analyses (JSAs), Job Hazard Analyses (JHAs), or similar Risk Management assessment tools]. These documents are considered equivalent to, and acceptable substitutes for, the AHA provided the data collected is the same as that required by the AHA.						
Remarks:						

# APPENDIX B-SAMPLE CONTRACTOR CONSTRUCTION PROJECT CHECKLIST

		FINDING
Project:		Acceptable For Review
Contractor:		Requires Modification
Reviewer/Date:		Missing
Recommendation: Return to Contractor for Revision		Not Applicable to Contract
☐ Approved		
REQUIREMENT	FINDING	COMMENT
A statement of the subcontractor's commitment to provide a safe and healthful construction worksite for all employees including subcontractors' employees and owner's personnel		
Include a policy statement concerning substance abuse on the construction site		
A signature of a responsible manager of the subcontracting company		
Name, title and qualifications of the designated Site Safety and Health Representative and designated alternates		
Documented evidence of Off-Site Training for the Site Safety and Health Representative		
Description of the inspections performed by this individual (frequency and format for documentation of inspections)		
Procedures for coordinating safety and health with lower tier subcontractor personnel on the construction worksite		
Procedures for communicating and coordinating safety and health requirements to non-English speaking subcontractor personnel		
The activity hazard analyses required for the project		
Description of activity hazard analysis process, including how workers are informed of hazards and protective actions		
How workers will acknowledge being provided the information		
A disciplinary process for non-compliance with protective measures identified in the AHA		

		FINDING
Identify safety and health training requirements and procedures including but not limited to:		
Orientation of new workers prior to beginning work on the construction worksite		
Worker acknowledgement of work hazards		
Frequency of tool-box safety meetings		
Updates or changes on safety practices relevant to the construction worksite, discussions of lessons learned from incidents at the construction worksite and elsewhere.		
The Subcontractor's hazard communication program and the specifics for the construction worksite.		
Identification of the activities on the construction worksite that will require employees to be under an occupational medical or exposure-monitoring program. Upon owner's request, the Subcontractor shall submit documentation of compliance.		
An emergency response plan that sets forth the procedures to be followed upon the occurrence of serious injuries, illnesses, fatalities, fires, structural failures, or other emergencies, including procedures for the administration of first aid and/or other necessary medical treatment. This shall include a list of nearby medical care providers available to the Subcontractor's employees.		
Procedures for recording and reporting safety incidents and maintaining safety and health records in accordance with DOE requirements and in accordance with owner's reporting requirements  Procedures for the investigation of job-related incidents to determine possible cause and corrective action		
Specific designation of management persons responsible for review of injury and illness reports		
Additional comments to provide contractor for su	bsequent revision:	Recommended Resolution