

HEALTH AND SAFETY PLAN (HASP)

The Contractor shall develop a written, Contract specific plan, referred to herein as the HASP, to:

1. Protect the lives and health of all persons.
2. Prevent damage to property and environment.
3. Avoid work interruptions or delay to Railroad services.
4. Ensure high levels of Work Site safety for all tasks performed; and
5. Define personnel responsible to develop and ensure safe work practices.

HASP Organization. The HASP shall be organized into the following sections with the following information:

1. Cover Page with the name of the Contractor, Contract number, Contract name, revision number and date (if applicable), name and signature of the SM indicating approval.
2. Table of contents listing all Sections and Exhibits.
3. Safety Policy Statement signed by an officer of the Contractor's company that shall include signatures of all Subcontractors as they are retained by the Contractor.
4. Comprehensive description of the Work, including any site-specific information.
5. Organization chart of Contractor personnel responsible for implementing the HASP and their duties and responsibilities. The chart shall show the reporting relationship and integration of the Safety Manager and all top level managers responsible for implementation of the HASP.
6. Description of Safety Manager and other personnel's responsibilities.
7. Incident Response – Include a generic action plan for review, analysis and immediate action necessary to prevent recurrence of serious incidents including near misses. The Contractor shall review and, if necessary, revise the HASP based on the occurrence of serious incidents including near

- misses or any changes in job conditions or as required by the Project CEO.
8. Procedures for incident reporting and incident investigation including the incident report forms to be used, and an incident investigation decision chart for identifying root causes to prevent recurrences.
 9. Emergency Preparedness and Response Program including, but not limited to, the following:
 - i. The identification of potential environmental incidents and emergencies associated with site-specific construction activities and the response procedures to construction site environmental incidents and emergencies, including for fire and tunnel collapse, flooding, property damage, utility damage, ventilation for underground areas.
 - ii. Evacuation and emergency escape routes as applicable.
 - iii. Telephone numbers of emergency agencies and Key Personnel.
 - iv. Annual emergency preparedness drills including method to account for all personnel during an evacuation.
 - v. Notification to the Construction Manager and all appropriate AHJs.
 - vi. Annual reviews and revisions of the emergency preparedness procedures as well as reviews after the occurrence of environmental incidents and emergency situations.
 - vii. Procedures to identify the root causes of incidents or incidents and processes to prevent recurrences
 10. Orientation Program for new employees including, but not limited to, the following:
 - i. Description of the Work.
 - ii. Review of Safety Policy, including Alcohol, Drugs and Tobacco Policy, pre-employment drug testing and testing for cause.
 - iii. Attendance requirements at “Just-in-time Training” Safety Meetings and Briefings, and adherence to Safe Work Plan (SWP) procedures.
 - iv. Distribution of Project safety documents, such as SWPs.

- v. Identification for all personnel.
- vi. OSHA 30-hour construction safety training and any other applicable trainings.
- vii. Emergency Preparedness and Response Procedures and Drill.
- viii. Specific Work Site hazards and safe working methods.
- ix. Review of hazardous materials communication program.
- x. Track Safety Training as required.
- xi. Incident/near miss/unsafe condition reporting and notification procedures.
- xii. PPE and safety procedures.
- xiii. Fire prevention.
- xiv. Location of first aid and medical facilities.
- xv. Review of public safety concerns.
- xvi. Attendance requirements at worker safety meetings/briefings.
- xvii. Review of hazard communication program.
- xviii. General Site safety requirements.
- xix. Construction equipment safety.
- xx. Vehicle safety.
- xxi. Warning devices and safety postings.
- xxii. Disciplinary procedures.
- xxiii. Safety awards program.
- xxiv. Non-Harassment Plan.
- xxv. Potential exposures to physical risk factors and prevention/mitigation strategies.

11. Description of anticipated work-related hazards and site configuration hazards, such as the following examples:

<u>Work Related Hazards</u>	<u>Site Configuration Hazards</u>
Temporary Construction	Access/Egress
Cranes & large equipment	Underpinning/Excavation
Power tools	Public protection/rodent control

Compressed gases	Support of Utilities
Flammables	Open Excavations
Hazardous Chemicals/Spills	Falling Objects, Fire
Unsafe Acts (other)	Flying Objects
Lockout/Tagout	Site Clean Up Falls From Elevation
Noise Damage	
Weather Conditions	Maintenance & Protection of Traffic
Slips, Trips and Falls	Site Security
Material Delivery	Confined Spaces
Cutting/Grinding/Chipping	Operating track/energized rail
Fall Protection	Unsafe Conditions (other)

12. Management and Recordkeeping of Safety Documents. Prepare a binder and maintain at each Work Site with the following documents:
- i. Minutes of safety meetings and sign-in sheets.
 - ii. Training records including schedule for refresher training and plans for safety briefing subject matter.
 - iii. Pictures of each employee's identification and OSHA 30-hour training card.
 - iv. Training and orientation manuals for new employees.
 - v. Daily logs prepared by the Safety Manager, Safety Coordinators, and/or Competent Persons.
 - vi. Incident records including OSHA Form 300A, incident investigation reports, and C-2F Forms.
 - vii. Permit log consisting of description of permit, permit number, date issued, date of expiration.

The Contractor shall maintain all safety documents for the period required under Article 14.07 of the General Provisions.

13. Hazard Communication (HazCom) Program to provide effective training to

employees who are exposed to hazardous chemicals as required by OSHA Hazard Communications Standard. This HazCom Program shall include an introduction with:

- i. a brief explanation of the training requirements and how the training program is designed to meet the requirements.
 - ii. guidance for site-specific training.
 - iii. lessons, slides, and quizzes with examples of approaching hazards generally, or that are site-specific that may be encountered; and
 - iv. for requirements on Hazardous Material, see PRDC Section 12.
14. Hearing Conservation Program to prevent hearing loss due to noise for occupational exposure. This program shall include engineering controls; monitoring; testing; hearing protectors; training; and record keeping as set forth in 29 CFR 1910.95.
 15. Respiratory Protection Program to protect employees for situations in which permissible exposure limits of airborne containment limits are exceeded or when respirators are required. This program shall include the evaluation methods for the Work Site prior to the start of Work; engineering controls; monitoring; testing; respiratory protectors; training and record keeping.
 16. Confined Space Program to control and protect employees from permit required confined space hazards and for regulating employee entry into permitted spaces. This program shall include the specifications for performing testing in the confined spaces.
 17. Lockout/Tagout Program to control hazardous energy program for machinery or equipment where the release of stored energy could cause injury or death. This program shall include procedures to mark energy isolation points, lockout/tagout procedures, training, inspection procedures, and the use of lockout/tagout devices.
 18. Fall Protection Program to identify and evaluate fall hazards to which employees may be exposed and provide training as required by 29 CFR 1926, Subpart M. This program shall include the type of fall protection

measures, such as fixed barriers and surface opening protectors, and any site-specific fall hazards.

19. Procedures to use, store, inspect and handle compressed gas and equipment as well as the physical hazards associated with high pressure systems in compliance with 29 CFR 1910.101, 1910.101(a) and (b), 1910.1200, and 1910.1450.
20. General safety rules and procedures at all Work Sites for the following:
 - i. Plans for safe ingress and egress.
 - ii. Traffic control plans.
 - iii. Explosives handling, transportation, and storage.
 - iv. Public protection.
 - v. Plans for fire protection and emergency response.
 - vi. Plans for Lead and Asbestos Abatement.
 - vii. Site security.
21. Requirements for the preparation and maintenance of the Daily Safety Reports in compliance with this Section