

UNITED INSULATED STRUCTURES CORP.

SAFETY

Subcontractor is responsible for the following rules and regulations. Please note, these OSHA and other legal standards are not all inclusive. All OSHA and other legal standards not specifically referenced in these rules and regulations shall apply when applicable.

A. It shall be the responsibility of all Subcontractors to initiate and maintain such programs as may be necessary to comply with requirements set forth by the Occupational Safety & Health Administration and any other local, state and federal regulations.

B. Frequent and regular inspections of the job site shall be made by a competent onsite safety representative designated by the Subcontractor. Unsafe acts and/or conditions noted during inspections shall be corrected immediately.

C. The Subcontractor shall instruct each employee onsite in the recognition and avoidance of unsafe acts and/or conditions applicable to work environment to control or eliminate injury or illness.

D. The Subcontractor is responsible for providing and requiring the use of appropriate personal protective equipment in all operations where there is an exposure to hazardous conditions.

E. The Subcontractor is responsible for notifying United Insulated Structures Corp. of any hazardous chemicals or substances that they bring or cause to have brought onto the site. The Subcontractor shall provide United Insulated Structures Corp. with a copy of the Material Safety Data Sheet (MSDS) for the chemical or substance and the Subcontractor shall retain a copy of the MSDS onsite for their own reference. The legal storage, use and disposal of wastes of any hazardous chemicals or substances is the responsibility of the Subcontractor.

F. The Subcontractor is responsible for the development of a fire protection and prevention program conforming to OSHA and NFPA standards. The Subcontractor shall also comply with all fire and safety rules and regulations established on the projects.

G. OSHA standards will serve as the minimum safety requirements for the project. Any site safety regulations which exceed the minimum standards established by OSHA shall be incorporated in the individual Subcontractor's safety program.

H. Clothing Requirements:

Shirts shall be worn at all times. Sleeveless shirts and tank tops are not permitted.

Long pants are required.

Sandals, tennis shoes, or any other soft cloth shoe will not be permitted.

Loose fitting clothes or jewelry shall not be worn around moving machinery, grinding operation, etc.

Hair that could come in contact with, or be caught in machinery, shall be protected by a hard hat or hair net.

I. Personal Protective Equipment

Approved hard hats meeting specifications contained in the American National Standards Institute (ANSI), Z89.1-1981 and/or Z89.2-1971 are required.

Proper eye and face protection shall be worn when engaged in, or assisting, such operations as welding, burning, chipping, grinding, handling chemicals and pouring concrete. Safety glasses with side shields will be the minimum type of eye protection.

OSHA approved hearing and respiratory equipment shall be worn when required. The selection, fitting and maintenance requirements of OSHA shall be met by the Subcontractor.

A safety harness shall be worn by all employees when working six feet or more above the ground when no other type of fall protection device is provided. The lanyard shall be securely attached to the employee 100% of the time and shall allow a maximum fall distance of six feet. A safety harness shall also be worn and attached to the tie-off rail when working out of extensible and articulating boom platforms or suspended scaffolding.

Seat belts shall be worn by all employees operating any motor vehicle and any equipment with rollover protection structures while on the project.

Safety nets shall be provided when steel connection is more than 25 feet above the ground where the use of other fall protection devices is impractical.

J. Signs, Signals and Barricades

Signs, signals and barricades shall be visible at all times where a hazard exists.

Signs, signals and barricades shall be removed when the hazard no longer exists.

K. Rigging Equipment

Rigging equipment shall be inspected by a designated, competent Subcontractor employee prior to initial use on the project and monthly thereafter to ensure that it is safe.

Damaged rigging equipment shall be removed from service immediately.

L. Hand and Power Tools

All hand and power tools, whether furnished by the employer, or by the employee, shall be maintained in a safe condition.

Subcontractors shall not issue nor permit the use of unsafe hand or power tools.

Only properly trained employees shall operate power-actuated tools. Certification records, employee certification cards, or equivalent certification documentation shall be maintained by the Subcontractor on each employee using power-actuated tools on the project.

All grinding machines shall conform to OSHA and ANSI requirements.

M. Compressed Gas Cylinders

Compressed gas cylinders shall be secured in an upright position at all times. Location of cylinder storage areas must be approved by United Insulated Structures Corp.

When transporting, moving and storing cylinders, valve protection caps shall be in place and secured.

Cylinders shall not be hoisted by magnets or choker slings. Valve protection caps shall not be used for hoisting cylinders.

Cylinders shall be kept away from sparks, hot slag and flames, or be adequately protected.

Cylinders shall not be placed where they can become part of an electrical circuit.

Cylinders shall be labeled as to the nature of their contents.

Oxygen cylinders in storage shall be separated from fuel gas cylinders or combustible materials a minimum of 20 feet, or by a non-combustible barrier at least five feet high having a fire resistant rating of at least one-half hour. Empty cylinders shall be segregated from full cylinders.

"NO SMOKING" signs shall be posted at storage areas and signs shall clearly indicate contents of cylinders.

Anti-flash back valves are required on all oxygen and acetylene lines.

N. Scaffolds

Footings or anchorage for any scaffold shall be sound, rigid and capable of carrying the maximum intended load without settling or displacement.

No unstable objects such as concrete blocks shall be used to support scaffolds or planks.

Any part of a scaffold weakened or damaged shall be repaired or replaced immediately.

All scaffold planking shall be free of knots and cracks and shall completely cover the work platform.

Scaffold planks shall be laid tight, cleated at both ends or overlapped a minimum of 12 inches and nailed or bolted to prevent movement. Overlaps to occur directly above scaffold supports.

Safe access shall be provided to the scaffold platform. Specifically, a ladder with a safe means of access to the platform from the ladder.

Scaffolds shall be equipped with a top rail made of lumber not less than 2 x 4 inches (or equivalent strength), 42 inches high; a 21 inch high midrail, made of lumber not less than 1 x 6 inches (or equivalent strength); and toeboards shall be installed on all open sides and ends of scaffold platforms 10 or more feet above the ground or floor.

Employees working on suspended scaffolds shall wear safety harnesses with lanyards attached to an independent lifeline.

O. Cranes and Derricks

All cranes and derricks shall be certified as being in safe operating condition by the Subcontractor prior to using the crane or derrick onsite. This certification shall be maintained by the Subcontractor.

All crane operators shall be certified by a competent person who is capable of identifying existing and predictable hazards in the surroundings and working conditions which are unsanitary, hazardous, or dangerous to employees and who has authorization to take prompt corrective measures to eliminate them. Certification records shall be maintained onsite and made available to United Insulated Structures Corp. upon request.

The swing radius of the crane shall be barricaded.

Hand signals prescribed by ANSI shall be posted at the operator's station. Manufacturer's specifications shall be observed.

Equipment shall not be operated where any of the equipment or load will come within 10 feet of electrical distribution or transmission lines.

No person shall ride the headache ball, hook or load being handled by the crane.

Equipment shall not be lubricated while in use.

Rated load capacities, recommended operating speeds, special hazard warning, specific hand signal diagram and special instructions shall be visible to the operator while at the Control Station.

Employees shall not be allowed to work under the load of cranes.

Cranes and derricks will be inspected prior to use and at monthly intervals. Records of these inspections shall be maintained onsite by the Subcontractor and copies shall be made available to United Insulated Structures Corp., by the Subcontractor, upon request.

P. Equipment and Motor Vehicles

All equipment must be inspected daily before use by the operator. Formal inspections must also be made at 30-day intervals with proper documentation maintained onsite by the Subcontractor and copies shall be made available to United Insulated Structures Corp. upon request.

Defective equipment shall be repaired or removed from service immediately.

All rubber-tired self-propelled scrapers, rubber-tired front-end loaders, rubber-tired dozers, wheel-type agricultural and industrial tractors, crawler tractors, crawler-type loaders and motor graders shall be equipped with rollover protective structures and seat belts.

All equipment with an obstructed view to the rear must have a reverse signal alarm audible above the surrounding noise level or must have a flagman.

All cracked and broken glass shall be replaced before bringing vehicles on the jobsite. If glass is broken or damaged onsite and if damage is severe enough to cause a potential safety problem, the machine will be stopped until such damage has been repaired.

Vehicles used to transport employees shall have seats firmly secured and adequate for the number of employees to be carried and all passengers shall be properly seated. Standing on the back of moving vehicles is prohibited.

Locations for storage of all fuels, lubrications, starting fluids, etc. shall be approved by United Insulated Structures Corp.

Q. Electrical

All electrical work, installation and wire capacities shall be in accordance with the pertinent provisions of the National Electrical Code, ANSI and OSHA.

Each Subcontractor shall develop a ground fault program in accordance with requirements established by OSHA. In the absence of ground fault protection, each Subcontractor will establish a monthly assured grounding program to include color coding. The codes used on this project are (PLEASE NOTE: The cycle of colors repeats every 6 months):

January - Yellow	July - Yellow
February - White	August - White
March - Brown	September - Brown
April - Green	October - Green
May - Red	November - Red
June - Blue	December - Blue

All temporary power panels shall have covers installed at all times.

R. Ladders

The use of ladders with broken or missing rungs or steps, broken or split rails or other defective construction is prohibited.

Ladders shall extend no less than 36 inches above landing and be secured to prevent displacement.

Portable ladders must be equipped with safety shoes.

Wooden ladders shall not be painted.

Metal ladders shall not be used where they can become part of an electrical circuit.

S. Floor and Wall Openings and Stairways:

Floor and wall openings shall be guarded by a standard guardrail and toeboard, or adequately covered.

Guardrails must be sufficient strength to support 200 pounds of pressure when applied at midspan of the guardrail parallel with the floor and perpendicular to the guardrail.

Covers must be adequately secured to prevent displacement and have "DANGER" signs attached identifying the hazard.

Every flight of stairs having four or more risers shall be equipped with standard stair railings. Stairs are not to be used until risers and railings are securely installed. Treads will be poured as soon as possible where poured treads apply.

Debris and other loose material shall not be allowed on stairways or at access points to stairway. Debris shall not be allowed to accumulate in stairwells.

T. Excavations and Trenching:

Prior to opening any excavation or trench, each Subcontractor must notify United Insulated Structures Corp.'s Site Superintendent or Project Engineer. In addition, each Subcontractor shall contact other necessary personnel to determine whether underground installations (i.e., sewer, telephone, fuel, electric lines, etc.) may be encountered and where they are located.

Excavations and trenches shall be inspected by a competent Subcontractor Representative each day and after every rainfall to determine if they are safe.

All banks 5 feet high or more shall be sloped to the angle of repose (the greatest angle above the horizontal plane at which a material will lie without sliding), or shall be adequately shored.

Ladders or steps shall be provided in all trenches 4 feet or more in depth. Ladders or steps shall be located to require no more than 25 feet of lateral travel before having access or egress.

Material excavated shall be stored at least 2 feet from the edge of the excavation or trench and shall be barricaded to prevent material from falling into the excavation.

All trenches and excavation shall be properly barricaded to prevent persons from walking into them.

All walkways or ramps crossing over excavations shall be securely fastened and equipped with standard guardrails.

U. Steel Erection

At no time shall there be more than four floors or 25 feet of unfinished bolting or welding above the foundation or uppermost permanently secured floors.

A temporary and/or permanent floor shall be maintained within 2 stories or 30 feet, whichever is less, below and directly under that portion of each tier of beams on which any work is being performed.

Planking or metal decking in temporary floors shall be of proper strength and thickness to carry the working load. Decking shall be secured to prevent movement.

Standard guardrails and toeboards shall be installed around open sides of permanent floors. During structural steel assembly, safety railings (cable) of 1/2 inch diameter shall be installed approximately 42 inches high, recessed into interior of floor around all temporary floors.

Where fall distance exceeds 25 feet, scaffolds, ladders, catch platforms, or harnesses with lanyards attached to lifelines or other substantial objects shall be used. If the use of these are impractical, safety nets shall be provided.

Tag lines shall be controlling loads.

Containers shall be provided for storing or carrying bolts or rivets. When bolts, driftpins, or rivet heads are being removed, a means shall be provided to prevent accidental displacement.

During the final placing of solid web structural members, the load shall not be released from the hoisting line until the members are secured with not less than two bolts, or equivalent, at each connection.

A safe means of access to the level being worked shall be maintained. Climbing and sliding columns are not considered safe access.

V. Confined Areas or Spaces

All Subcontractors shall develop an entry procedure to be used when employees are required to enter confined areas or spaces. Such areas include storage tanks, process vessels, bins, boilers, ventilation or exhaust ducts, sewers, underground utility vaults, tunnels, pipelines, open-topped pits, basements and temporary wood framing covered with plastic.

All employees required to enter confined areas or space shall be instructed as to the nature of hazards involved, necessary precautions to be taken, and in the use of protective and emergency equipment required.

Before employees are permitted entry into any confined areas or spaces, the atmosphere within the space shall be tested to determine the oxygen level and concentrations of flammable vapors, gases, and toxic contaminants. The Subcontractor, needing access to the confined area, shall furnish the testing equipment and a person competent in the use of the testing equipment.

When welding, cutting or heating in confined areas or spaces, ventilation shall be provided. When sufficient ventilation cannot be provided without blocking the means of access, employees shall be protected by air line respirators and an employee shall be stationed outside the confined area to maintain communication with those working and to aid them in an emergency.

W. Housekeeping

During the course of construction, all debris and scrap material shall be kept away from the work area.

Containers shall be provided by the Subcontractor for collection and separation of waste, trash, oily and used rags and other refuse.

Garbage and other waste shall be disposed of at frequent and regular intervals in a manner approved by United Insulated Structures Corp.

The Subcontractor shall notify United Insulated Structures Corp. of any hazardous waste they will generate while on the project. The Subcontractor has the direct responsibility of maintaining proper storage of these wastes while onsite and will verify to United Insulated Structures Corp. in writing that the wastes have been disposed of in a legal manner.

The Subcontractor will not pour, bury, burn, or in any way dispose of a chemical on the work site without the permission of United Insulated Structures Corp. or the Client.