Customer:
Your Company

Location:
308 CUI Project

WO#	Job Number/Purchase Order:
	123456
	4

Safety Activity Plan for the Following Activities:
Asbestos Abatement
Scaffold, Sand Blast, Coatings, Insulation

Contact List:

Role	Name	Phone	Cell
Owners Representative			
Company Contact			
Safety Rep.			
Thermico Scaffold Foreman			
Thermico Insulation Lead			
Thermico Safey Rep.			

Emergency Phone Number 555-1212 555-1212

Alert Assembly Area **Control Room 555-1211**

Evacuation Assembly Area **Control Room follow building personnel**

Scope

This project requires the erection of scaffolding around two towers EQ-580 and EQ-590. Note: EQ-579 extension and EQ-580 combined comprise the 580 column. Additionally insulation removal sandblast, inspection and coatings and subsequent re-insulation for the still pot EQ-2925 is required

Once scaffold is erected, and an enclosure will be built to contain potentially friable asbestos, removal of insulation and insulation components (using asbestos abatement techniques) will commence. Once the asbestos abatement has been completed a fine mesh screen will be installed around the scaffold in preparation for sandblast activities.

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These activities will be followed by a white metal dry blast with black beauty. Subsequent to the blast acvtivities the vessels will be blown down inspected by NDT and coated with Intertherm 751CSA. Piping will receive DC-10 and skirts/structure will receive DC-1. Since there is not adequate access availble in the skirt areas, a Confined Space entry will not be attempted for this project.

Expectations

The goal of Thermico for this project is 0 safety incidents. This goal will be accomplished through the use of a daily STAC cards that will be reviewed and discussed each morning, along with the Daily Safe Work Permit.

The Daily Safe Work Permit will be signed by each employee stating that they have reviewed and understand requirements of the Daily Safe Work Permit.

Near Miss/Incident or Injury Reporting

Near Miss incidents will be reported to the Prime Contractor/Project Management as soon as practical. The importance of Near Miss Reporting is to eliminate future potential incidents /injuries by being attentive to the seemingly small minor details. Left unchecked, these insignificant factors on the job may result in unintended consequences.

Incidents or Injuries will be reported immediately by calling 4300 or 496-4396 (cell phone) pulling a safety shower or activation an eye-wash station. Accidents and injuries are to be reported immediately. No exceptions.

In the event of an injury or incident, the primary responsibility is to respond to the incident and get the necessary help on the way. Once the situation is under control, contact supervision; supervisors will make the proper contacts with the prime contractor and responsible Project Management personnel.

Fall Prevention / Protection

Thermico follows a strict fall prevention and protection policy. A 100% continuous tie off policy will be strictly enforced any time that an employee's feet are **6 feet** off the ground or higher or within **6 feet** of any leading edge.

Any employee found violating this policy will be immediately terminated. Tie off points are to be at least eighteen and a half feet from the floor up when using a lanyard. When working from an aerial lift, tie off to the manufactured anchorage point in the lift 100% of the time you are in the lift.

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Inspections and check lists are to be completed before use and on lift at all times. Continuous fall protection when erecting and dismantling scaffolds will be accomplished by tying to the vertical supports or overhead supports only. The system scaffolding used on this project is rated as safe for tie off as per manufacturer to 5000 lbs. of static force.

Scaffolds on this project may be subject to wind speeds > 25 mph. This limit exceeds the current Dow Corning site standard. As a result, Dow Corning will seek a variance to that site standard predicated on the stamped (engineered drawings) provided by SAFWAY®. (Preliminary scaffold drawings are attached).

Engineered drawings call out that scaffold "tie-backs" to existing structural steel and the vessel framework supply the necessary support to withstand wind speeds of up to 35 mph.

Mark Montel is the Competent Scaffold Builder assigned to this project and this document will serve as the company endorsement for the purpose of this project.

Postings

A copy of this SAP and the pre-job safety minutes will be kept on site along with daily JSA's and daily safe work permits. All STAC cards will be turned in daily at the Thermico field office.

Housekeeping

Housekeeping will be completed on a continuous basis and debris will not be allowed to accumulate on this project.

Workers shall not chew tobacco, or consume sunflower seed shells, on this project work site. Violators will be subject to immediate dismissal.

Personal Protective Equipment

Minimum PPE required for this project:
☒ Safety Glasses with side shields
☒ Hand Protection
☒ Chemical Goggles (100% of the time)
☒ Steel-toed Safety Shoes or Boots
☒ Hard hats
☒ Hearing protection (as required, ☐ carried on person)
☒ Long sleeves
☒ Respirator (asbestos abatement)
☒ Tyvek® Suits (outer layer), ☐ As Required (outer layer)
☐ Fire Rated clothing (outer layer)
☒ Fall protection as required
☐ Reflective Vests

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Intervention

All personnel working on this site have a **RESPONSIBILITY** to intervene when noticing any potential unsafe acts or situations. Workers will be constantly aware of each other and their actions to allow for maximum observation of all personnel. Workers will be aware of body and hand positions for themselves and for each other to prevent any ergonomic issues and to prevent potential pinch points. When performing an intervention it is important to use P.A.C.E. principles to state/voice your concern.

Temporary Barricades

All Temporary barricades will be tagged per the Dow Corning Safety Booklet (pp 26) with the company name, date, responsible person, and contact information included on the tag.

Inclement Weather

Thermico will not allow workers to perform their tasks in adverse weather conditions. If necessary, prior to start, all snow and ice must be removed from outside areas where scaffold is to be erected, and throughout the work shift as needed. Ice melt will be applied to planking as needed during inspections before working on these scaffolds. We will practice the 30/30 rule for lightning strikes.

Ladders and Scaffolds

All personnel working from ladders, ascending, or descending a scaffold will maintain 3 points-of-contact at all times. Personnel working from a scaffold shall abide by the requirements listed on the scaffold tag. All material and tools will be hoisted and lowered by rope, NOT carried by the person climbing up or down the scaffold.

Thermico will furnish our own ladders for this project. Employees are to inspect these ladders before each use.

Hand Tools

All hand tools will be used in accordance with the manufacturer's instructions. And tools will be kept in tool buckets or pouches and not carried in pockets. Gloves shall be worn at all times.

Lifting

Personnel shall not lift anything weighing 50 pounds or more. Anything weighing over 50 pounds shall be moved using the buddy system, or mechanical assistance. Evaluation of the tasks and ergonomic cards are to be completed and kept on person before any work is to begin.

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Sign In/Out and Safe Work Permits (Operator Phone# 496-4734)
Each individual worker will be required to sign in and out of the area using the sign in book located in the 304 building. When entering names the employees are expected to ***legibily print their first initial and last name***. Entries must be completed by each individual.

Work Hours:
Work hours for this project are

Hazards
Overhead work, head knockers, others working in the area, cuts, pinch points, slips & trips, particles in the eye, falls. Strains & sprains, falling objects, line of fire, moving equipment, and weather.

Task	Hazard	Mitigation
1. Erecting scaffold	Strains and sprains, pulled muscle	Stretch/warm up before carrying parts to elevated locations. Team lift items weighing over 50#
2. Assemble, erect base poles and bearers.	Pinch points, struck by hammer.	Adjust body position such that while striking blows bodies are not in the "line of Fire"
3. Inspect and tag scaffold	Climbing ladders to location, slips and trips	Maintain three points of contact with the ladder at all times.
4. Install fine mesh screen for catching blast media	Strains and sprains. Struck by heavy material	Stretch/warm up before carrying parts to elevated locations. Team lift items weighing over 50#.
5. Install visqueen to contain potentially friable asbestos	Strains and sprains. Struck by heavy material	Stretch/warm up before carrying parts to elevated locations. Team lift items weighing over 50#.
6. Set up blast cans	Caught in or between while moving cans into position	Plan the path. Position the body to avoid placing body or body parts between vehicle and the blast can. NEVER leave vehicle running an unattended.
7. Position blast hoses on platforms	Strains or sprains from lifting hoses	Use mechanical assist or pulleys to position hoses
8. Sandblast the towers	Sand blast abrasions, strains sprains from lifting hose. Repetitive stresse injuries.	Wear protective blast clothing at all times. DO NOT tape, wire or otherwise modify the dead man switch on the hose.
9. Wash-down/blow down the towers to remove blast media	Slips and falls, particles in the eye or abrasions to the face or body.	Wear protective equipment during the blow-down wash-down phase. Position the body away from the sources being used.

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Task	Hazard	Mitigation
10. Coating application	Exposure to coating fumes (inhalation, ingestion or spills)	Position body upwind of coatings and wear protective equipment.
11. Touch-up coating applications	Exposure to coating fumes (inhalation, ingestion or spills)	Position body upwind of coatings and wear protective equipment.
12. Stage and install insulation	Strains and sprains from lifting	Team lift and use mechanical assist
13. Install insulation jacketing system	Strains and sprains from lifting	Team lift and use mechanical assist
14. Dismantle scaffold (upon successful completion of the field weld)	Pinch points, struck by hammer.	Adjust body position such that while striking blows bodies are not in the "line of Fire"
15. Remove parts from site and clean-up work area	Strains and sprains, pulled muscle	Stretch/warm up before carrying parts from elevated locations. Team lift items weighing over 50#
16. Close out job final inspection	Climbing stairwells, slipping tripping.	Use handrail. Maintain 3 points of contact.
17.		
18.		

Inspections

All tools and equipment will be inspected before being brought on site, And to be inspected by each employee before use throughout each day.

Scaffolds

Scaffold erected and disassembled will be under the direct control of a scaffold competent person. Scaffold will be properly tagged at all times with either a red, yellow, or green scaffold Tag.

Scaffold systems will be erected in accordance with the manufacturer's recommendations, following the current Dow Corning and MIOSHA Standards. All scaffold parts will be inspected prior to use and will be taken out of service if defective.

All scaffolds are to be inspected by a scaffold competent person prior to use.

Associated Site Concerns / Comments

- Plan the work and work the plan.
- Significant amount of maintenance work occuring in this area.
- Use the 360 (20, 20, 20) process to periodically check the work area for changes in condidtions.
- Observe equipment location and conditions prior to executing work. Take special care around instruments and process control devices to assure they are not moved, damaged or altered.

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All personal working on this project will review and sign this SAP and the pre-job safety minutes prior to performing any work.

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