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CONSTRUCTION ENVIRONMENTAL PROTECTION STANDARDS

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Abstract:

This standard applies to all work where hazardous materials may be encountered or used during the construction process.

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents, including General and Supplementary Conditions and other Standards apply.

1.2 SUMMARY

This standard applies to all work where hazardous materials may be encountered or used during the construction process. These requirements are not intended to be all inclusive but are meant to emphasize existing Company procedures and city, county, regional, state or federal ordinances, laws and regulations applicable to the work. This standard does not relieve the Company or its subcontractors from complying with all appropriate OSHA and other safety regulations pertaining to the work but not listed herein.

Non-conformance to Environmental Protection Standards is considered to be a serious offense and may be subject to severe fines and criminal prosecution. All construction projects need to be coordinated with Company staff to allow for the protection of the environment and for early identification of any special environmental problems. Requirements will vary from project to project. If any doubt as to whether any Environmental Protection Standard applies to work, contact the Project Manager immediately for assessment. The Company shall be liable for any losses, expenses, penalties, etc. incurred by the Customer as a result of the Company's failure to comply with applicable standards.

Work Specified Elsewhere:

- General Construction Project Standards.
- Removal & Disposal of Asbestos Containing Material Standards.
- Temporary Barriers and Enclosures Standards.
- Cleaning and Waste Management Standards.
- Interior and Exterior Painting Standards.

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 REFERENCES

General:

The Company shall comply with the applicable provisions of the referenced standards except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent standard or requirement shall govern.

NTS: Definitions are used when terms are not defined in reference standards.

1.5 SUBMITTALS

Product Data - Submit for Project Manager Action:

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Submit manufacturer's literature and installation instructions for each material and accessory, clearly notating specified requirements. Modify shop drawing scale as necessary.

Closeout Submittals - Submit in Owner's documentation:

[Redacted]

1.6 QUALITY ASSURANCE

Definition of Qualified Installer:

5 years experience in the installation of [Redacted]

Regulatory Requirements:

The Company shall comply with applicable requirements of the laws, codes and regulations of Responsible Authorities (RA). Obtain necessary approvals from RA's.

Pre-Installation Meetings:

Before the start of Work, Company representatives shall [Redacted]

1.7 WARRANTY

Submit in Customer's documentation:

Warranty shall be for [Redacted]

PART 2: PRODUCTS

2.1 ASBESTOS

Asbestos is most commonly found in the following applications:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

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Friable asbestos containing material is defined as any material that

[Redacted]

Asbestos containing material that is friable and contains greater than or equal to 1% asbestos by weight is classified as "Hazardous Waste" when it is to be disposed. It is not to be

[Redacted]

Contractors will fully comply with Air Quality Management District (AQMD) Regulations; especially,

[Redacted]

Upon completion of the asbestos abatement project, an inspection shall

[Redacted]

2.2 HANDLING OF HAZARDOUS MATERIALS AND WASTE

A [Redacted] Safety Data Sheet ([Redacted]) must be provided to the Project Manager, who will provide a copy to [Redacted]

[Redacted]

All job related hazardous waste will

[Redacted]

All job related hazardous waste must

[Redacted]

If a Company supplied container or tank is approved for hazardous waste use, it must

[Redacted]

Each container used for hazardous wastes must be labeled in compliance with NFPA Standard 704 and applicable local regulatory requirements, e.g., California Code of Regulations, Title 8, Section 5192 - Hazardous Waste Operations and Emergency Response and Section 5194 - Hazard Communication (substitute your local regulation). Labeling must include:

- [Redacted]

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- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Labels on the container itself must include [REDACTED]

[REDACTED]

Specific information that must be on the

“Internal Manifest” includes:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

All hazardous waste and/or hazardous materials being stored on Company property must [REDACTED]

[REDACTED]

Storage security must

Weekly documentation of inspections of all job related hazardous materials/hazardous waste storage areas and containers for leaks or other hazardous is required. A record must [REDACTED]

[REDACTED]

The Company must provide each employee or subcontractor on site with information about what to do in case of emergency or chemical spill. This information will include [REDACTED]

[REDACTED]

2.3 CONCRETE OPERATIONS

Handle wet concrete and concrete cutting waters in such a manner as to prevent discharge to the sanitary sewer and storm drains. Blocking-off or plugging drains in the vicinity may [REDACTED]

[REDACTED]

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Do not discharge residual concrete and concrete/asphalt cutting effluent from equipment and machinery to the storm or sanitary sewer systems. Discharge wash waters into [REDACTED]

[REDACTED]

used, [REDACTED] If containers are [REDACTED]

Postpone outdoor concrete work if [REDACTED]

2.4 ACQUISITION AND DISPOSAL OF WASTE CONTAINERS

Waste containers may be acquired from the HazMat Operations through the Project Manager. Environmental Procedures

If a Company-supplied container or tank is approved for hazardous waste use, it must [REDACTED]

[REDACTED] All the Company supplied waste containers must [REDACTED]

2.5 MATERIAL STORAGE

Store construction, demolition and excavation materials ([REDACTED]) under a roof or structure or [REDACTED]

[REDACTED] A diversion ditch may also be used to [REDACTED]

2.6 EQUIPMENT INSTALLATION-REMOVAL-MODIFICATION

The Company will arrange for any necessary pollution discharge permits or regulatory agency permit notifications for equipment being installed, moved, modified or removed by a Company. The Company should not [REDACTED]

[REDACTED]

2.7 WOOD PRESERVATIVES AND OTHER SURFACE TREATMENTS

Apply only as much of the chemical as the wood can absorb or [REDACTED]

2.8 PAINTS-COATINGS-ADHESIVES

Aerosol spray paints may only be used if they [REDACTED]

Waste solvent, coatings and solvent contaminated rags, wipes and aerosol cans must [REDACTED]

Clean-up of brushes, trays, etc., used with water based paints may be done in [REDACTED]

Clean-up of all coating equipment must be done in [REDACTED]

Use impermeable ground cloths during paint scraping operations, such as [REDACTED]

If spray painting, use temporary scaffolding to hang drop cloths or draperies to shield personnel from the wind and to collect overspray. Arrange the draperies to [REDACTED]

2.9 MONITORING ACTIVITIES

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

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PART 3: EXECUTION

3.1 BROKEN/RUPTURED UNDERGROUND PIPES CONTAINING LIQUID

For broken lines that contain anything other than potable water, the Company shall immediately notify both the local Fire Department and the Project Manager and initiate the following actions immediately:

- [REDACTED]
- [REDACTED]

3.2 PARTICLES-SPARK EMISSIONS TO THE AIR

The official method for quantifying visible emissions requires special training and certification. To avoid violating the laws regarding air pollution emissions, a conservative general policy has been adopted:

[REDACTED]

For processes where visible dry plumes may be expected on a regular basis, such as [REDACTED]

No equipment, process or operations shall emit [REDACTED]

Operations, processes or equipment use shall not [REDACTED]

No equipment, process or operation shall emit [REDACTED]

The Company must ensure that no emissions are re-entrained into the buildings occupied by employees.

3.3 DEWATERING OF EXCAVATION AND SUMPS

The Project Manager must be notified if it is likely that there will be a need to remove/dispose of ground water prior to excavation or construction and must be given [REDACTED]

[REDACTED]

Construction-related ground water should not be drained or pumped to a storm sewer. Discharge of ground water to the sanitary sewer will always be [REDACTED]

[REDACTED]

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All pumped ground water will require temporary storage (tank, barrels, etc.) to allow [REDACTED]

Arrangements must be made with HazMat Operations for the collected ground water to be [REDACTED]

No waste water can be discharged into the sewer connection with a pH greater than [REDACTED] or less than [REDACTED] or with a total toxic organic concentration of more than [REDACTED]

The Company must observe the initial and subsequently daily discharges from temporary storage containers to make sure the water does not [REDACTED]

All temporary storage must be labeled. Labels shall include, at a minimum:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Arrangements must be made with HazMat Operations for the sludge and/or solids that collect on the bottom of the temporary holding tank(s) to be [REDACTED]

3.4 PUMPING GROUND WATER FROM WELLS

The Company policy is to dispose of ground water pumped from wells, as part of well development or sampling, to the City sanitary sewer if possible. Sanitary sewer means [REDACTED]

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All pumped ground water will require temporary storage (tank, barrels, etc.) to allow [REDACTED]
[REDACTED]

The Company must observe the initial and subsequently daily discharges to make sure [REDACTED]
[REDACTED]

All temporary storage must be labeled. Labels shall include:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Arrangements must be made with HazMat Operations for the collected ground water to be [REDACTED]
[REDACTED]

No waste water can be discharged into the sewer connection with a pH greater than [REDACTED] or less than [REDACTED]
or with a total toxic organic concentration of more than [REDACTED]
[REDACTED]

The rate of discharge must be monitored and recorded daily or immediately following discharge for the duration of the permit. Written records of discharges must [REDACTED]
[REDACTED]

Arrangements must be made with the Project Manager for the sludge and/or solids that collect on the bottom of the temporary holding tank(s) to be [REDACTED]
[REDACTED]

3.5 DISCHARGE TO SANITARY SEWER

Sanitary sewer means [REDACTED]
[REDACTED]

Discharge to the sanitary sewer will always be [REDACTED]
[REDACTED]

No person shall discharge wastes to a city sanitary sewer that causes, threatens to cause or is capable of causing either alone or by interaction with other substances:

- [REDACTED]
- [REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]

If there is any question whether a material is allowed to be put into the sanitary sewer, contact [REDACTED]
[REDACTED]

All employees shall provide and maintain protection from accidental discharge of any materials into the sanitary sewer. In the event of any accidental discharge of any prohibited materials into the sewer, [REDACTED]
[REDACTED]

3.6 DISCHARGE TO STORM SEWER

Storm sewer means [REDACTED]
[REDACTED]

The Company shall manage each job site in such a manner to avoid discharges of [REDACTED]
[REDACTED]

The Company shall employ special precautions if rain is forecast. These precautions include:

- [REDACTED]
- [REDACTED]

The Company shall keep the working area clean every day. Sweep up [REDACTED]
[REDACTED]

3.7 EXCAVATION AND/OR DRILLING

In cases where soil contamination is known or suspected to be hazardous waste, either by historical data (known spills, releases, etc.) or by visual indication or odor during excavation and/or drilling, the excavated soil or soil cuttings must [REDACTED]
[REDACTED]

[REDACTED]

Labels shall include:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Arrangements must be made with HazMat Operations for the soil to be [REDACTED]
[REDACTED]

Unless specifically exempted by the Customer, all borings will be [REDACTED]
[REDACTED]

A special permit must be obtained for borings deeper than [REDACTED]
[REDACTED]

Special well construction requirements, such as conductive casings, may be required in certain areas of the site to prevent [REDACTED]
[REDACTED]

3.8 UNDERGROUND TANKS

Prior to the end of any job involving installation, repair or upgrading of underground storage tank, approval must [REDACTED]
[REDACTED]

3.9 DECONTAMINATION

Construction projects involving hazardous waste removal or decontamination need to be coordinated with [REDACTED]
[REDACTED]

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nts will vary from project to project – a Site Safety Plan may be required prior to starting each project.

3.10 DEMOLITION

Hazardous Material/Waste:

Construction projects involving demolition of structures need to be coordinated with the Project Manager as well as HazMat Operations to allow for

[REDACTED]

Non-hazardous material/waste:

Where feasible to prevent or minimize contact with rain water during the wet season, store demolition materials on

[REDACTED]

3.11 SANDBLASTING

The Project Manager must be notified prior to any sandblasting. All abrasives used for dry, unconfined blasting shall not contain more than

[REDACTED]

After blasting, abrasives used for dry, unconfined blasting shall not

[REDACTED]

Any violation of the local Air Quality Management District (AQMD) regulations concerning abrasive blast cleaning shall

[REDACTED]

3.12 OUTDOOR SANDBLASTING

Place tarpaulin or ground cloths beneath work to capture the blasting medium and particles from the surface being cleaned. Hang tarps or drop cloths to

[REDACTED]

Clean-up frequently:

[REDACTED]

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3.13 WASHING OF EXTERIOR BUILDING SURFACES

Wash water from exterior surfaces of buildings (including roofs) shall not [REDACTED]

If wash water cannot be directed to landscaping, the water shall [REDACTED]

If the wash water has been determined to be sewerable by HazMat Operations, collect (contact the Project Manager for method coordination) and pump the water to an approved sanitary sewer connection (filtration may be required for wash waters). For information on approved sanitary sewer locations, contact the Project Manager.

If the water has been determined to be non-sewerable, [REDACTED]

3.14 MONITORING ACTIVITIES

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

3.15 SOLVENT CLEANING

Solvents are organic compounds that are used as [REDACTED]

Wipe-cleaning is a method of cleaning that utilizes [REDACTED]

Use of trichloroethylene (TCE) as a cleaning solvent is [REDACTED]

Solvent, including waste solvent and swabs, rags, paper or other solvent cleaning materials shall [REDACTED]

Rags and other solvent containing materials shall [REDACTED]

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A total of no more than [REDACTED] of flammable solvent, such as [REDACTED] shall be allowed to evaporate to the air from a wipe-cleaning operation area in any one day and no more than [REDACTED] in any one hour. No more than [REDACTED] chlorinated solvents such as [REDACTED] may be allowed to evaporate from a wipe cleaning operation area in any one day. (substitute your local regulations here)

3.16 EQUIPMENT CLEAN-UP

Waste solvent, coatings and solvent contaminated rags, wipes and aerosol cans must [REDACTED]

Clean-up of brushes, trays, etc., used with water based paints may [REDACTED]

Both water based and solvent based coatings must be disposed of as hazardous waste.
Clean-up of all coating equipment must be done in a way that [REDACTED]

Clean-up of concrete mixing, holding, pumping or transporting equipment must be done in a way that [REDACTED]

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