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CONSTRUCTION SITE REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS

Origination Date: (month year)

Document Identifier:	Name, Number, Unique ID
Date:	Latest Revision Date
Project:	Customer, Unique ID, Part Number
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Abstract:

This document establishes a standard of quality for removal and disposal of asbestos containing materials.

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DOCUMENT CHANGE RECORD

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents and general provisions of the Contract, including General and Supplementary Conditions apply to this Standard.

1.2 SUMMARY

Work Included:

Removal of any Air Quality Management District (AQMD) regulated asbestos containing materials.

Work Specified Elsewhere:

Environmental Protection Standards

Carpeting Standards

Resilient Flooring Standards

Insulation Standards

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 REFERENCES

General:

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.

1.5 DEFINITIONS

Friable Asbestos Containing Material:

Any material that contains more than one percent asbestos and that can be crumbled, pulverized or reduced to powder when dry, by hand pressure or mechanical means (sanding, sawing, shot blasting or any other demolition or renovation techniques).

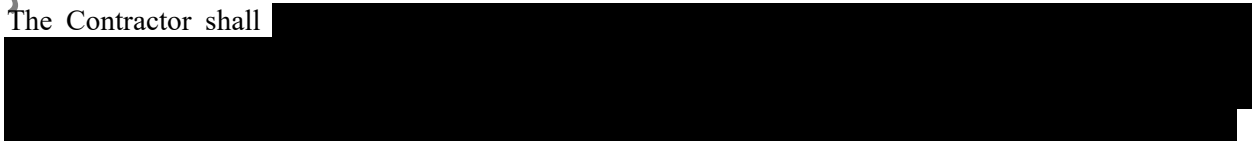
Regulated Asbestos Containing Materials (RACM):

Any friable asbestos containing material or asbestos containing material that may become friable in the course of demolition or renovation.

1.6 CONTRACTOR QUALIFICATIONS

Contractors shall be certified by the applicable State License Board to do asbestos related work.

The Contractor shall



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1.7 CONTRACTOR RESPONSIBILITIES

Contractors shall be fully and totally responsible at all times for compliance with the provisions of 29 CFR 1926.1101, CCR Title 8, Section 1529 and all other local, state and federal standards as they pertain to all construction and related activities involving asbestos containing materials.

Contractors shall send written notification to the Air Quality Management District [REDACTED] at least ten working days prior to any abatement activity. Notification forms can be obtained from the AQMD. Notification must also be provided to [REDACTED]

The Contractor is to be on-site at all times during the removal and is to be knowledgeable in the National Emission Standards for Hazard Air Pollutants (NESHAP) for asbestos; additionally, [REDACTED]

The Contractor shall inspect the premises with Company personnel when all abatement and abatement related activities will occur prior to submitting a bid.

1.8 SUBMITTALS

Provide the following submittals no later than 10 days after contract award:

- [REDACTED]
- Project work plan to include the following:
- [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]

Submit copies of all notifications sent to the AQMD/DOSH and copies of licenses/registrations required by applicable regulations to HazMat Operations. Submit product data, [REDACTED] Safety Data Sheets ([REDACTED]), use instructions and recommendations of the manufacturers of the materials intended for use as [REDACTED]

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Contractor(s) shall submit a written Site Safety Plan that establishes procedures and policies for assuring the health and safety of site personnel during all phases of the project. The Site Safety Plan shall detail information concerning:

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

The site safety plan shall denote on the front cover, who prepared the plan and the date it was prepared. A copy shall be kept at the project site. The site safety plan shall

[REDACTED]

The Contractor is to estimate the quantity of waste generated for this project, the size and number of waste containers and submit to the Company along with the proposal and/or project work plan.

The Final Report shall be submitted no later than fifteen days after the Contractor completes the abatement work. The final report shall include the following:

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

Submit certification signed by an officer of the asbestos abatement contracting firm that exposure measurements, medical surveillance and worker training records are [REDACTED]

1.9 SAMPLES

Furnish samples required for testing and deliver promptly to testing agency. Costs for delivery of samples shall be borne by the Contractor. Where special preparation of samples for testing is required, the work

[REDACTED]

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PART 2: PRODUCTS

2.1 MATERIALS AND EQUIPMENT

Provide for segregation of incompatible [REDACTED]

Disposal drums or bins will be provided by HazMat Operations. This will be coordinated by [REDACTED]

Enclosures shall be constructed using [REDACTED]

Post warning signs, as required by Federal OSHA, 20 CFR 1926.1101 and (your State) Health and Safety Code, e.g., [REDACTED]

Upon completion of the abatement project, HazMat Operations and Contractor will ensure [REDACTED]

2.2 MONITORING ACTIVITIES

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

PART 3: EXECUTION

3.1 PREPARATION OF WORK AREA

The Contractor shall post warning signs meeting the specifications of Federal OSHA and (your State), e.g., [REDACTED] at any location and approaches to a location where airborne concentrations of asbestos may exceed [REDACTED]

Signs shall be posted at a distance sufficiently far enough away from the work area to permit [REDACTED]

Under Company supervision, shut down and lock out all [REDACTED]

[REDACTED]

3.2 ISOLATION OR WORK AREA FROM OCCUPIED AREAS

The contaminated work area shall be separated from [REDACTED]

Walls shall be constructed of wood or metal framing to support barriers in all openings larger than [REDACTED]

Following completion of the construction of all polyethylene barriers and decontamination system enclosures, allow overnight settling to [REDACTED]

Damage and defects in the enclosure system are to be repaired immediately upon discovery. In all cases, the Project Manager shall be notified. If visible asbestos abatement debris is observed outside of the work area or if damage occurs to barriers at any time during the abatement activities, after barriers have been erected, work shall [REDACTED]

If air samples collected outside of the work area during abatement activities indicate airborne fiber concentrations greater than [REDACTED]

Negative pressure ventilation units shall be equipped with HEPA filters and shall be exhausted directly to the outside of the building. A pressure gauge for measuring negative pressure within the enclosure shall [REDACTED]

Careful installation, air monitoring and daily inspections shall be done by the Contractor to ensure [REDACTED] A log shall be kept of the test results and any repair/reconstruction needed.

- [REDACTED]
- [REDACTED]

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- [REDACTED]

3.3 PRE START REQUIREMENTS

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

3.4 REMOVAL

All removal procedures shall be reviewed by HazMat Operations. Any of the following methods may be used for removal of asbestos containing mastic:

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

Note: No solvents, except water, are to be used. Contractor to notify AQMD in writing to request approval prior to using any dry removal techniques.

Deviations from the approved procedure must [REDACTED]
[REDACTED]

3.5 FIELD QUALITY CONTROL

Assistance to the Testing Agency:

The Company and Contractor shall furnish the Testing Agency with access to [REDACTED]
[REDACTED]

3.6 CLEAN UP PROCEDURES

An approved asbestos vacuum cleaner with HEPA filter shall be used to initially clean all surfaces. All surfaces in the work area shall then [REDACTED]
[REDACTED]

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

If any accumulation of residue is observed, it will be assumed to be asbestos and the clean-up cycle shall be repeated. The work area shall [REDACTED]

[REDACTED]

3.7 DISPOSAL PROCEDURES

The Company shall provide disposal drums or bins - arrangements shall be made through HazMat Operations at least ten days in advance. The Company shall be responsible for offsite disposal of all asbestos-containing waste materials. The Contractor shall [REDACTED]

[REDACTED]

3.8 RE-ESTABLISHMENT OF WORK AREA AND SYSTEMS

Re-establishment of the work area shall only occur following the completion of clean-up procedures and [REDACTED]

[REDACTED]

Following the completion of clean-up procedures, the Contractor and Company shall [REDACTED]

[REDACTED]

Following the satisfactory clearances of the work area, polyethylene barriers may be removed and disposed of as asbestos-contaminated waste. The Company and Contractor shall re-establish HVAC, mechanical and electrical systems in proper working order and repair all areas of damage that occurred as a result of abatement activities.

3.9 AIR MONITORING

Area airborne fiber counts collected inside and outside of the enclosure will [REDACTED]

[REDACTED]

[REDACTED]

Sampling and analytical methods:

Phase Contrast Microscopy (PCM) will be performed using the NIOSH 7400 method and comply with CCR Title 8, Section 1529 Appendix A & B. This analysis will be carried out at the job site, or if off-site, analysis must [REDACTED]

[REDACTED]

Sample volumes:

The number and volume of air samples taken by the Contractor will be according to [REDACTED]

Sample cassettes:

Samples will be collected on 25mm cassettes as follows:

- [REDACTED]
- [REDACTED]

Laboratory testing:

The services of an accredited testing laboratory will be employed by the Contractor to perform laboratory analysis of the air samples. Verbal reports on air samples must [REDACTED]

[REDACTED]

Personal monitoring:

The Contractor is responsible for performing air monitoring to meet OSHA requirements for personnel sampling or any other purpose. Personal monitoring results are to be made available daily to HazMat Operations.

The Company reserves the right to perform air and performance monitoring at any time. The Company may take air samples at any time during or following the completion of the work, up to 48 hours after completion. Work shall not [REDACTED]

[REDACTED]

3.10 CLEARANCE SAMPLING

Where clearance sampling is required upon the completion of the clean-up procedures and the visual inspection, the Contractor, or unless otherwise noted, shall arrange for the services of a third-party Industrial Hygienist and certified testing laboratory to:

- [REDACTED]
- [REDACTED]

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Removal of Asbestos Containing Materials

- [REDACTED]

Verbal results on air samples are [REDACTED]

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