

## **Lead Based Paint Stabilization Specification**

384 Miles in Yuba City, Ca.

PROJECT: Lead Stabilization.

**Note: Lead stabilization work shall occur on all exterior fascia, trim and wall paint at the above address in Yuba City, Ca. All exterior painted surfaces shall be scraped and prepared for demolition. All material removed shall be characterized for waste disposal. This project is being done based on EPA and Title 8 CCR 1532.1 guidelines. This specification is in reference to the exterior of the building only.**  
**Note: Soil levels shall be sampled prior to the work starting.**

Initial requirement: From the first day of this project, exposure assessment and worker lead monitoring will occur before, during and after the removal process. Personal air monitoring, wipe sampling, high volume air monitoring and clearance sampling shall be conducted by Asbestos Science Technologies, Inc. All items associated with waste streams shall also be verified by the onsite Lead Project monitor. This monitoring shall occur from the start of the project until the end.

**Note: All exterior materials as indicated above shall be treated as lead containing and removed and disposed of according to EPA requirements. A waste stream profile shall also be conducted for the remaining plastic, suits, rags, filters and all other items associated with the removal process. All loose and peeling paint shall be removed by the abatement contractor.**

Note 2: EPA, Department of Health Services and CAL/OSHA guidelines shall be followed on this project.

Note 3: This project specification is based on the EPA, Department of Health Services and CAL/OSHA guidelines. This work plan is intended to provide guidance to the contractor and his/her employees when they engage in the lead stabilization at the above address. The contractor upon signing the work plan assumes the requirement of the individual sections of the plan. If the contractor wishes to produce his own work plan, he may do so but the plan he/she produces is subject to approval of the lead project monitor and the owner. No work shall be performed onsite without the onsite lead project monitor from Asbestos Science technologies, Inc. being present.

Abatement Requirements:

1. Workers must be trained lead paint abatement workers who are certified by the Department of Health Services. Each worker used in the paint preparation part of the work must have a current photo identification.
2. There is a requirement for blood lead level testing before and after this project. Blood lead levels must be taken before the start of the project within ten days and no later than five days after the project is completed.

3. Removal requirements:

A. The work area must be contained in the following manner.

All areas shall have barrier tape out ten feet from the work area. Completion of an area is subject to approval by the onsite air monitoring professional.

B. A decontamination facility must be set up to allow the employees to shower or as a minimum wash their hands and face prior to eating, drinking or smoking. Decontamination is mandatory.

C. A DHS supervisor must be available to come to the site in case of problems and this supervisor must be able to arrive on site within one hour of the time notified.

D. Other employees on the site or in the building must be notified that lead paint removal will be occurring.

E. Workers will wear approved Tyvec protective clothing and rubber gloves while doing the work. Each worker will also wear a negative pressure half face respirator with HEPA or P-100 filters installed.

F. Paint chips, surface paint, trim, suits, plastic and water shall be characterized as part of this project.

4. Air monitoring requirements

A. CAL/OSHA requires air monitoring of lead abatement projects on a representative basis. The objective of the requirement is to establish the level of air borne lead. If the laboratory report level shows air borne lead above the action level of 30 ug/M3, (30 Micrograms per Meter of air cubed) abatement procedures and controls have to be changed and additional air monitoring will have to be conducted until the level is below the action level.

Asbestos Science Technologies, Inc. will use high volume and low volume air sampling pumps to collect air samples. A rotometer will be used to calculate the amount of air being collected. All rotometers will be calibrated by a bubble meter prior to being used as a secondary standard.

#### 5. Clearance testing

A. Clearance wipe, air and soil sampling shall be performed at the completion of all areas.

#### 6. Disposal of Waste

A. Samples of the waste in its final state must be tested to determine eligibility for disposal. STLC testing shall be used to determine leach-able lead levels. If the ug/kg comes back under 5, the waste is considered not to be hazardous and can be disposed of in a regular land fill. If it is over 5, then the material shall be disposed of as hazardous .

B. If testing determines that the lead content is too high for regular landfill disposal, a profile must be secured to allow the waste to be transported and disposed of at Chemical Waste Management Facility at Kettleman Hills, CA. The final transport requires a Hazardous Waste Manifest with an approved profile with pick up and transport by a licensed hazardous waste hauler to the disposal site.

C. If the contractor decides to avoid the cost of the testing, a profile can be requested on a basis of assuming that the materials are hazardous and the container goes to the required location. One can assume hazardous but non hazardous cannot be assumed.

#### Scientific Field Testing Associated With This Project

1. As work occurs, a sample of the material shall be sent in for waste characterization prior to disposal. The abatement contractor is responsible for all waste characterization costs.

2. After characterization is complete the waste will be manifested and sent to the previously mentioned disposal site if indicated as hazardous waste. All disposal costs shall be the responsibility of the abatement contractor.

3. All plastic will be wiped down and cleaned with a clean rag prior to characterization. Plastic will not be sent with other materials and will be disposed of according to the plastic characterization.

4. Water and surfactant shall be used for wetting prior to removal.

5. A HEPA vacuum will be used onsite to clean up debris that may occur. All vacuum debris will be put in with the paint chip debris and will be part of the same characterization. **Note: All HEPA vacuums and negative air machines shall be D.O.P. tested or its' equivalent.**

6. After the material has been removed from the building, wipe, air and soil samples shall be taken of all areas. Any sample above the clearance level will cause for the area to be re-cleaned and the cost of said re-cleaning and re-sampling will be borne by the contractor.

## **GENERAL SPECIFICATIONS**

### **SCOPE OF WORK**

The contractor shall furnish all labor, materials, tools, and equipment to remove and properly dispose of the lead containing materials at 384 Miles in Yuba City, Ca. The following are in the scope of work.

Note 1: The specifications as written will supersede all regulatory guidelines if they are enforced to cause the project to be done stricter than is required by the said guidelines. In no way will this project be done less stringently than the regulatory guidelines.

1. All exterior painted fascia, doors, trim and walls at the above address are included in the scope of work. Note: Only areas which shall be impacted as part of the work shall be addressed.

a. All removed materials shall be containerized in an approved disposal container sufficient in size for disposal to the proper disposal site. All loose and or flaking paint shall be removed prior to removal of all components. Plastic shall be placed on all surfaces which are not to be scraped and/or removed. A three stage decontamination chamber is required with hot and cold water. Filtration shall be down to ½ micron for all shower water.

2. Caution tape, critical barriers and negative pressure enclosures shall be utilized for the area in question. Negative pressure shall be a minimum of negative 0.02 inches of water during the removal process and up until clearance has been achieved.

Clearance requirements shall be according to EPA guidelines.

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### **SITE INSPECTION**

Contractor is responsible for visiting the project building and familiarizing himself/herself with all conditions pertaining to this project.

### **2. PERMITS AND INDEMNIFICATION**

The Contractor shall, at his own cost and expense, provide the necessary permits.

### **3. EXAMINATION OF SITE AND CONDITIONS**

Before submitting a proposal, the contractor shall examine the site of the work and ascertain for himself/herself all of the physical conditions in relation thereto. Failure to take this precaution will not release the successful bidder from entering into contracts nor excuse him from performing the work in strict accordance with the terms of the contract. Contractor shall employ, so far as possible, such methods and means of carrying out his work as will not cause any interruption or interference with any other work being performed by Owner. No statement made by any officer agent or employee of the Owner in relation to the physical conditions pertaining to the work site, will be binding on the Owner.

#### **4. STOPPING THE WORK**

A. Work shall be stopped at any time it is determined that conditions are not within the specification requirements of applicable regulations. Stopping the work may be initiated by:

1. The Contractor
2. Lead project monitor
3. Federal, State, or Local regulatory officials

B. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the persons having jurisdiction.

C. Standby time required to resolve violations shall be at the Contractor's expense.

#### **5. SUPERVISION**

The supervision of this work will be done by Asbestos Science Technologies, Inc. Other provisions of the contract governing the removal and disposal of lead will be done by the same individual, acting on behalf of the Owner.

#### **6. INSPECTION OF WORK**

The representatives of the Owner shall at all times have access to the work wherever it is in preparation or progress and Contractor shall provide facilities for such access and for inspection. Although the Owner may have its representatives inspect the property at any time, the Owner is under no duty to inspect the work or property.

#### **7. CLEAN-UP**

The Contractor shall at all times keep the premises free from accumulation of asbestos, waste material or rubbish caused by his employees or work, and at the completion of the work, Contractor shall remove rubbish from and about the buildings and remove all tools and surplus materials and shall leave the work site clean. In the case of dispute, the Owner may remove any waste or rubbish and charge the cost to the Contractor.

## **8. INTERPRETATIONS**

Should a bidder find discrepancies in, or omissions from the specifications, or be in doubt as to their meanings, he/she should at once notify the supervisor of the project. Owner will not be responsible for oral interpretations.

## **9. EVIDENCE OF QUALIFICATIONS**

The Contractor shall submit a minimal submittal package of worker certificates, medicals, fit tests, contractor's license and additional insured certificate.

## **10. WORK PLAN**

As a further part of submittals, Contractor shall specify how the intended work is going to be accomplished, what manner and methods may be utilized, and how Contractor intends to comply with all applicable Federal, State and other rules, regulations and ordinances. The Owner reserves the right to determine if qualifications of Contractor are satisfactory.



## **11. TEMPORARY UTILITIES**

The contractor shall furnish all water, electricity, lighting, and other utilities as needed for completion of the work.

## **12. AIR MONITORING**

A lead project monitor working for Asbestos Science Technologies, Inc. shall provide air, soil and wipe sampling throughout the project. The Contractor is not required to provide air monitoring under these specifications, except as required under local, state or Federal air quality guidelines.

Workers will wear protective clothing and respirators beginning the moment that the first paint is scraped and continuing until clearance is achieved whenever they are active in the removal process. Workers will decontaminate each time they exit the work area. Contractor will provide decontamination facilities.

All work to be performed using the federal and state regulations which follow:

### **APPLICABLE DOCUMENTS AND REGULATIONS**

All lead removal work shall comply with the requirements of:

1. All applicable Federal, State, and local laws and regulations.
2. Title 29, Code of Federal Regulations, Section 1926.58, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor. Title 8, CCR 1529 including all appendix sections. Also including 1532.1.
3. Title 40, Code of Federal Regulations, Part 61, Subparts A and B, National Emissions Standards for Hazardous Air Pollutants, U.S. Environmental Protection Agency (EPA).
4. National Institute for Occupational Safety and Health (NIOSH):  
"Respiratory Protection...A Guide for the Employee".

## **SUBMITTALS AND NOTICES**

The following notifications shall be filed by the Contractor as required by law prior to commencement of work:

1. Pre job and post job employee blood tests are required on this project as specified by these specifications. This is the responsibility of the contractor to inform his employees on the hazards of lead. Pre and post job blood tests are required under these guidelines.
2. Submit documentation indicating that each employee has had instruction on the hazards of lead exposure, on use and fitting of respirators, on protective dress, on use of decontamination areas and on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction.
3. Post caution signs in and around the work area to comply with OSHA 3142, 1993. Lead in Construction.
4. Provide copies of lead training certificates as requested.
5. Submit proof satisfactory to the Owner that all required permits, site location, and arrangement for transport and disposal of lead paint-containing or contaminated materials, supplies, and the like have been obtained.
6. Submit to the owners' representative a description of plans for construction of decontamination systems (locations of showers) and for isolation of the work areas in compliance with these specifications and applicable regulations.
7. Submit documentation indicating that each employee has had instruction on the hazards of lead exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction.

9. Submit proof satisfactory to the Asbestos Science Technologies, Inc. that all required permits, profiles, site location, and arrangement for transport and disposal of lead-containing or contaminated materials, supplies, and the like have been obtained.
10. Submit a description of plans for construction of decontamination enclosure systems and for isolation of the work areas in compliance with these specifications and applicable regulations.
11. Submit manufacturer's certification that vacuums, negative air pressure equipment, and other local exhaust ventilation conform to ANSI 29.2-1979 (American National Standards Institute).
12. Provide disposal certificates to Owner as requested.
13. Submit to Asbestos Science Technologies, Inc. copies of security and safety log showing names of persons entering the workspace, date and time of entry and exit, record of any accident, emergency evacuation, or any other safety and/or health incident.

#### **PRE-COMMENCEMENT CONFERENCE**

Prior to the beginning of actual removal activities, the Contractor shall present a general overview of the following:

1. Abatement plans including-
  - a. Drawings of the decontamination facilities and their location.
  - b. Work area isolation plan with lay out of engineering controls (e.g. HEPA filters, etc.).
  - c. Security program.
2. In order to expedite approval of these documents, the Contractor is encouraged to confer with the Asbestos Science Technologies, Inc. during their preparation.
3. No work shall be performed without approval of the work plan.
4. Description of protective clothing and approved respirators to be used.
5. Explanation of decontamination sequence to be used.
6. Description of the final clean-up procedures to be used.
7. Proposed landfill for disposal of waste materials.

## **PERSONNEL**

1. Superintendent and Foreman shall have-
  - a. Training and knowledge of applicable regulations and expertise in safety and environmental protection.
  - b. Experience with abatement work as evidenced through participation in at least two public agency abatement projects.
  - c. Records of medical examination and blood tests required under applicable Federal or State regulations.
2. Workmen shall have-
  - a. Training as evidenced by the participation and successful completion DHS worker lead training with the qualifications stated above, on respiratory protection and the standard operating procedures for lead abatement work.
  - b. Skills and experience with all phases of abatement work.
  - c. Records of medical examination required under applicable Federal or State regulations.
3. Contractor shall at all times enforce strict discipline and good order among his workmen.
4. There shall be no smoking in buildings or within 500 feet of the work area. A \$500.00 dollar fine shall be imposed for smoking and the contractor removed from the job.
5. Maintain a sufficient number of trained and qualified workers and superintendents to accomplish the work within the required schedule.

## **PERSONNEL PROTECTION**

1. Prior to commencement of work, the workers shall be instructed and shall be knowledgeable in the areas described in Section 3 "Submittals and Notices".

2. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and MSHA and suitable for the asbestos exposure level in the work area according to CAL OSHA Standard CCR 1529. Where respirators with disposable filters are employed, provide sufficient filters for replacement as required by the worker or applicable regulation.

3. CAL/OSHA Regulations, require respirators if airborne concentrations of lead paint are higher than the OSHA standard of 30 ug per 8 hour time-weighted average. The type of respirator required depends on concentrations:

4. If the contractor can provide sufficient evidence to show that other similar jobs have resulted in air borne concentrations of lead below the 30 ug per 8 hour time weighted average using the same removal methods, the contractor may allow his/her employees to work without respiratory protection. This must however be approved by Asbestos Science Technologies, Inc. Sufficient documentation will be required in this effort.

#### Protection Factors for Respirators

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- a. half face respirator if between 1x and 10x the standard;
- b. powered air purifying respirator if between 10x and 100x the standard;
- c. type "C" respirator if greater than 100x the standard.

The Contractor is responsible for determination of the concentration of air borne lead in the air. This can be done by analysis of air samples from actual or similar jobs. The representative from Asbestos Science Technologies, Inc shall determine which type of respirator shall be used during the work.

5. Provide authorized visitors with suitable respirators with filters or cartridges whenever they are required to enter the work area, to a maximum of 2 per day.

6. Provide workers with sufficient sets of protective full body clothing. Such clothing shall consist of full body coveralls and headgear. Provide eye protection and hard hats as required by applicable safety regulations.

7. Provide and post, in the washing room, the decontamination and work procedures to be followed by workers.

## **MATERIALS AND EQUIPMENT**

1. Store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficient to prevent damage or contamination.

2. Damaged or deteriorating materials shall not be used and shall be removed from the premises.

3. Tape - capable of sealing joints of adjacent sheets of plastic sheets and for attachment of plastic sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

4. Warning labels and signs - as required by CAL/OSHA.

5. Provide suitable tools for pressure washing, filtering and final cleanup.

## **CLEAN-UP**

1. Remove visible accumulations of paint material and debris.

2. Clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA vacuum equipment. After cleaning the work area, request clearance.

3. Sealed drums and all equipment used in the work area shall be included in the cleanup and shall be removed from work areas.

4. If visible accumulations of dust in the work area occur, the Contractor shall repeat the wet cleaning until the work area is in compliance, at the Contractor's expense.

5. Final sampling shall be performed by a lead professional working for Asbestos Science Technologies, Inc.

6. The decision of the onsite lead project monitor for Asbestos Science Technologies, Inc. is final as to whether the work areas pass inspection and clearance criteria.

## REESTABLISHMENT OF OBJECTS AND SYSTEMS

1. Relocate objects moved to temporary locations in the course of the work to their proper positions.

The lead abatement contractor has read the above specifications and does hereby agree to abide by the terms of the specifications as they are prepared and written. Change orders shall not be accepted for items already listed in the specifications.

Note: This specification, the sample results and narrative associated with this specification are not transferable to any other air monitoring or hazardous materials enforcement company. This specification is proprietary to Asbestos Science Technologies, Inc. It is for our firms' enforcement and bidding purposes for abatement.

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