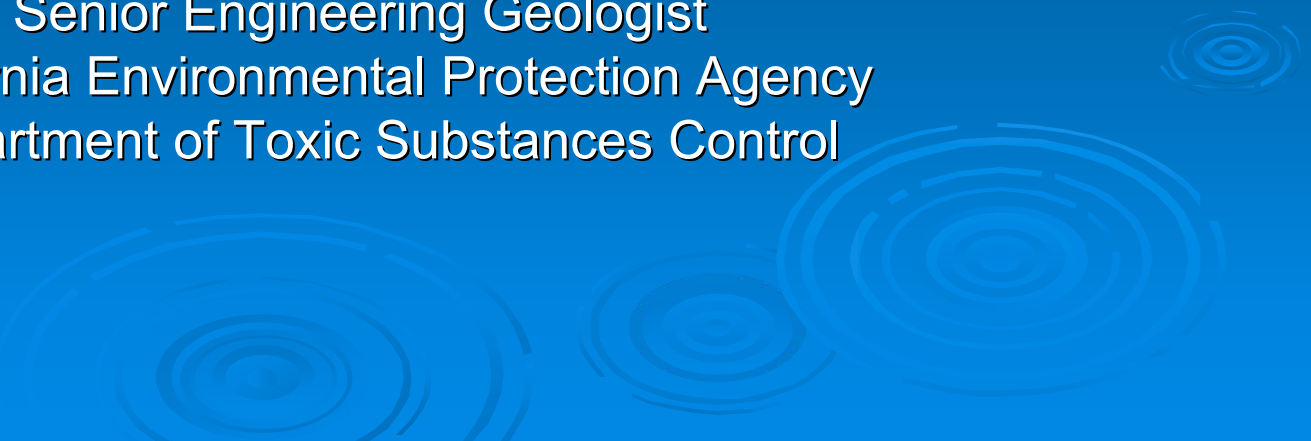


BUILDING DEMOLITION DEBRIS CHARACTERIZATION AND MANAGEMENT

STANDARD OPERATING PROCEDURES

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Today's discussion...

- Draft Standard Operating Procedures (SOP) for Building Demolition Debris Characterization and Management at SSFL – February 24, 2010
- The SOP is for Boeing owned buildings only*
- DTSC is planning a 30 day Public Comment Period to begin week of March 8

*NASA has deferred removal of buildings in Area II until later date. Removal of DOE owned buildings in Area IV on hold.

Purpose of the Building Demolition Standard Operating Procedures

- Establish procedures that will
 1. Assure that building demolitions will not result in the removal and uncontrolled reuse of potentially contaminated debris;
 2. Require limits on the scope of demolitions to assure the activities will not adversely affect the ongoing site investigations; and
 3. Ensure that the activity does not involve removal of contaminated soil or constitute an activity requiring a workplan for DTSC approval.
 4. Ensure review, approval, documentation, and the administrative record of proposed building demolitions meet federal RCRA and state Hazardous Waste Control Law regulatory requirements

Building Demolition Activities

- The building demolition activities are NOT intended to include activities involving removal of contaminated soils, or removal of waste management units where hazardous materials have been released, that would require a separate workplan for DTSC review and approval.
- A separate workplan will be required for activities involving removal of contaminated soils.

SOP Document Review

- **October 14, 2009** – Letter to Boeing from DTSC requesting amendment to June 2009 **Building Feature Evaluation SOP (Rev 1)**. Purpose was to improve notification and agency review procedures.
- **November 3, 2009** - Draft Building Demolition Debris Characterization SOP submitted by Boeing
- **February 11, 2010** – Letter to Boeing with comments on the draft SOP.
- **February 24, 2010** - Draft Standard Operating Procedures: Building Demolition Debris Characterization and Management – Submitted by Boeing

Proposed Standard Operating Procedures for Building Demolition Activities

- Boeing will inform DTSC 30 days in advance.
- Submit proposed demolition package with maps, figures, and description, and sample data to DTSC for review.
- Package to include a signed statement based on review of historical documents identifying radiological-related activities (if any).
- All building structures, equipment, and materials, including road base, will undergo a pre-demolition radiation screening.
- Assessment of impacts the proposed activity may have on RFI Investigation activities will be provided.

Proposed Standard Operating Procedures for Building Demolition Activities

- DTSC will visit the proposed demolition areas to evaluate the proposal and ensure the activity does require submittal of a separate workplan for DTSC review and approval
- Submittal of a Post demolition summary report with post demolition maps, field reports, screening and sample results, chemical release identification findings, photographic documentation, and copies of the debris/waste recycling and removals.

3.0 Pre-demolition document review

- Historical information pertaining to chemical use will be reviewed
- Potential chemical residues or contamination that may be present on building structure elements, floors, concrete/asphalt, ceilings, and equipment will be evaluated.
- Applicable analytical data will be reviewed.
- Facility drawings, maps, logs, photographs, will be reviewed.

4.0 Pre-demolition Inspection

- Asbestos and lead paint surveys
- Tank and pressure vessel surveys
- General Site Safety surveys
- Concrete assessment surveys
- Energetics surveys
- Underground features surveys
- Coolant, hydraulic oil, refrigerant, other fluid surveys
- Radiological survey

5.0 Pre Demolition Planning

- Dust control methods
- Sediment runoff control measures
- Storm Water Pollution Prevention
- Traffic control measures



6.0 Demolition Preparation Activities

- Tank and pressure vessel draining and disposition
- Removal of potentially hazardous materials from lines and equipment
- Removal of equipment, appliances, and fixtures
- Loose paint abatement
- Asbestos Abatement
- Removal of hazardous surface deposits and residues

7.0 Containment of hazardous and potentially hazardous waste

- All hazardous waste will be accumulated in closed containers to prevent release of any material
- Potentially hazardous waste will be managed as hazardous waste until verified by analytical testing
- Hazardous waste will be managed in accordance with Title 40 CFR, Title 22 CCR, and Chapter 6.5 of the California Health and Safety Code.

8.0 Characterization of Waste during Demolition

- Characterization will be based on generator knowledge and/or a sampling plan developed in accordance with SW-846 and State certified laboratory results.
- Waste will be characterized before they are loaded into trucks and/or trailers for transport to offsite disposal facilities

9.0 Demolition Waste Recycling

➤ Waste will be recycled when appropriate

- Recoverable Metals
- Concrete and Asphalt

Concrete that exhibits heavy staining or history suggesting significant exposure to chemical constituents (including contact with soils) will be investigated to verify it is non-hazardous.

- Electronic and Electrical Waste will be recycled
Oil filled transformers will undergo verification for PCBs

10.0 Demolition Waste Disposal Facilities

- Non-hazardous non-liquid wastes not designated for recycling may be transported to Class 2 or Class 3 landfills for disposal. Boeing may elect to transport to Class 1 facilities
- Non-hazardous liquid waste will be transported to wastewater processors that accepts the type of waste
- Hazardous non-liquid waste will be transported to a permitted Treatment, Storage, and Disposal Facility (TSDF)
- Hazardous liquid waste will be transported to a permitted TSDF

11.0 Waste Monitoring and Release Investigation During Demolition

- Soils exposed during removal of floor slabs, concrete, and pavement, will be monitored for indications of chemical release.
- During this phase of the demolition a geologist or engineer will be present to monitor subsurface conditions. DTSC may elect to be present.
- If indication of environmental impact in soils is observed work will be stopped.
- If significant soil contamination is identified indicative of a release, DTSC will be notified in writing within 24 hours.
- Resumption of demolition in suspected release location shall occur only with DTSC concurrence.

QUESTIONS

