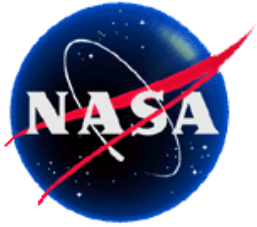


# Lead Awareness

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## During Lead Abatement Projects





# Lead Overview

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## **Lead:**

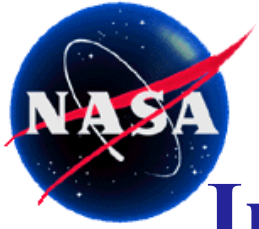
-A naturally occurring metallic element found in the earth's crust

-Durable, heavy, soft, and toxic

-Highly resistant to corrosion and widely used in the past

-Can be found in many parts of the environment including water and soil

**\*Lead exposure can occur at or away from work\***



# In What Products Can Lead Be Found?

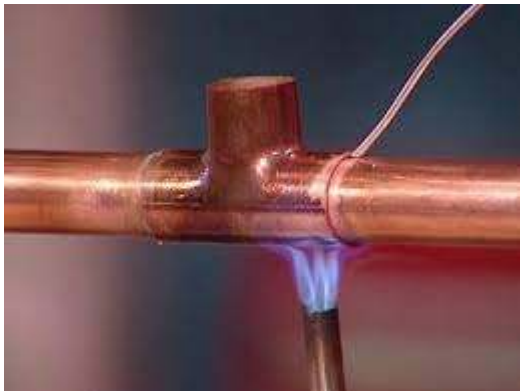
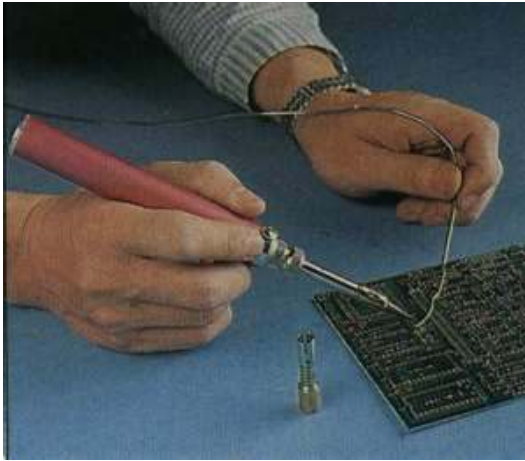
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- Ammunition
- Lead batteries
- Pigments for paints and coatings

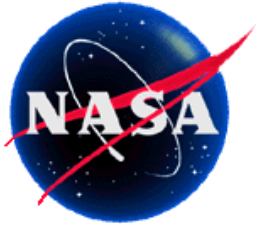




# In What Products Can Lead Be Found?



- Solder
- Fishing jigs and sinkers
- Residential piping



## Lead at Stennis Space Center (SSC)

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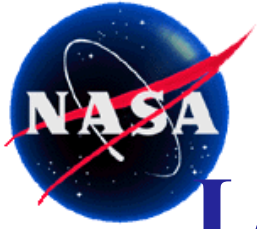
Lead-based paint is the most common source of lead at SSC and can be found in multiple buildings.

**Intact Paint**



**Flaking/Peeling Paint**





# Lead at Stennis Space Center (SSC)

Floor plans for buildings known to contain lead based-paint at SSC are in the process of being updated. Floor plans (current and future) can be found by accessing the following website addresses:

<http://ssccommunity.ssc.nasa.gov/ohs/indust.html>

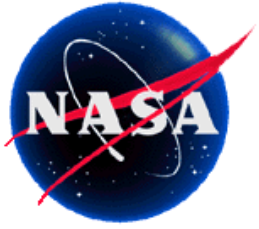
SSC's Industrial Hygiene Website

or

<http://sscodyyssey.ssc.nasa.gov/environmental/lead.htm>

"Lead Information" Website

**NOTE:** If you have any questions regarding floor plans for buildings known to contain lead-based paint, please contact Stennis Space Center's Lead Program Manager at 228-688-1234.

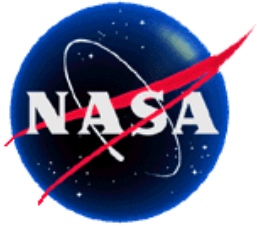


## Sources of Lead Exposure at SSC

- Operations involving the demolition or salvage of structures containing lead
- Maintenance operations involving the disturbance of lead-based paint
- Firing range operations
- Soldering
- Welding



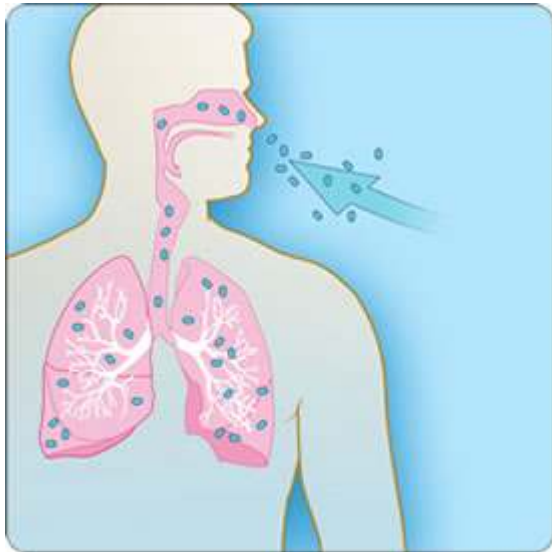




# Routes of Exposure

## Inhalation

- Breathing lead fumes or dust. Inhalation is the most common route of entry in the workplace.

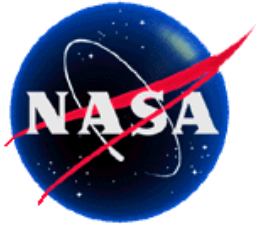


## Ingestion

- Swallowing lead dust via food, water, cigarettes etc.



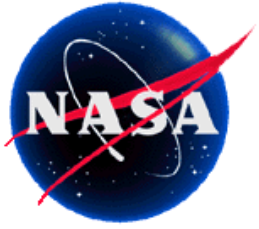




# Lead Related Health Effects

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- Lead which is inhaled or ingested gets into the bloodstream and can be circulated throughout the body.
- Some lead is excreted while some remains in bones, organs, and body tissue.
- If lead exposure is continuous, the amount of lead stored in the body will increase if the body is absorbing more than it is excreting.

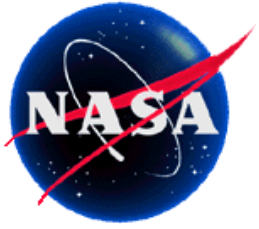


# Lead Related Health Effects

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During prolonged chronic lead exposure, many body systems can be affected, including:

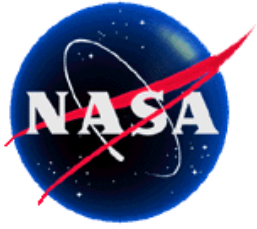
- the brain
- kidneys
- muscles
- bones
- reproductive



# Lead Related Illnesses

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- Increased blood pressure
- Poor muscle coordination
- Nerve damage
- Reproductive problems
- Fetal development

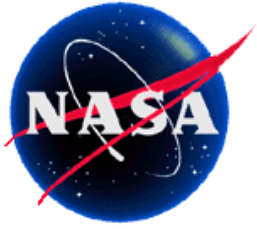


# SSC Employee Responsibilities

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## SSC Employees Are To:

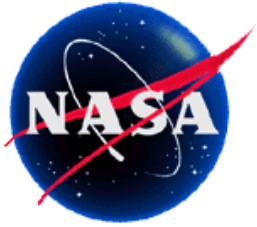
- **Avoid disturbing lead-based paint.**
- **Report the following to their supervisor:**
  - Any dust or debris known or suspected to contain lead
  - Any flaking/peeling paint known or suspected to contain lead
  - Any paint chips known or suspected to contain lead
  - Any dust or debris known or suspected to contain lead
- **Contact their supervisor if there are any questions or concerns regarding lead.**



# SSC Lead Hazard Control Policy

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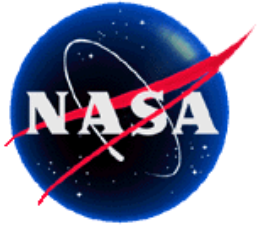
- **The policy is contained in SSC SCWI-8500-0018-ENV**
- **The SSC policy requires trained qualified persons to perform activities that disturb lead-based paint.**
- **Lead disturbance activities may be:**
  - **Small operations and maintenance (O&M) jobs (<20 square feet)**
  - **Large abatement jobs (>20 square feet)**
  - **Cleanup of flaked lead paint or lead paint debris**
- **Small O&M lead jobs require specific lead O&M training. Cleanup of flaked lead paint or lead paint debris requires this training and use of special equipment. Small O&M paint removal jobs require job review and approval.**



# SSC Lead Hazard Control Policy

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- **Large abatement jobs require licensed lead abatement contractors supervised by a licensed lead supervisor and performed by trained lead workers.**
- **Large lead abatement projects must be managed by a FOSC Construction Manager who has current EPA Lead Supervisor/Contractor training.**
- **Lead abatement projects must undergo a review and approval process prior to start-up.**
- **Only trained and authorized personnel may enter the lead regulated area, including a containment area. Required training and qualifications includes:**
  - **Respiratory protection training**
  - **Medical evaluation and qualification**
  - **Respirator fit test**
  - **PPE training**
  - **Lead Awareness – Lead Worker Training**

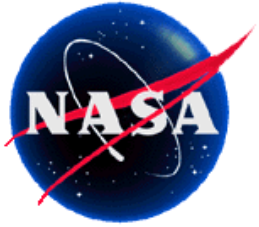


# SSC Lead Hazard Control Policy

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- **Prior to the abatement contractor beginning the on-site preparations, the control of the abatement area is a construction zone and is under the sole control of the FOSC Construction Manager or other NASA designated project manager. This construction site control remains until the abatement area is cleared by and returned to the control of the operation's facility manager.**
- **Any project-related communications or technical concerns during the course of the project should be channeled through the area's facility manager and then to the FOSC Construction Manager.**
- **After the construction site control has been returned to the facility manager, and if concerns arise related to the lead abatement project, the facility manager should notify the project's construction manager for resolution.**





ANY  
QUESTIONS  
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