

HAZARD ANALYSIS

Work Plan Prepare Lead sheets for Minerva absorber use.

Date: 01/10/08

Prepared By: John L. Voirin

Reviewed By: (Optional)

Approved By: (Supervisor or Task Manager)

Description of work: Lead pallets will be HEPA vacuumed clean, opened and all debris will be vacuumed up. Packing material will be set aside for reuse. Using a vacuum lifting fixture lead will be set on a table and ultrasonic thickness measurements will be taken. Then the sheet will be set on the tarp on the floor. The lead will be painted. Using two sheets of plywood the lead will be flipped over and the other side painted. After drying the lead will be restacked onto the pallets and taken to wideband for use in the Minerva experiment.

All workers will have Lead worker or Lead handling training.

Personal Protective Equipment: (Check protective equipment required for the job.)

<input checked="" type="checkbox"/>	Safety Glasses with Side Shields	<input type="checkbox"/>	Chemical Splash Goggles
<input type="checkbox"/>	Hearing Protection	<input type="checkbox"/>	Hard Hats
<input checked="" type="checkbox"/>	Shoe covers	<input type="checkbox"/>	Impact Goggles
<input checked="" type="checkbox"/>	Tyvek coveralls	<input type="checkbox"/>	Rubber Apron
<input checked="" type="checkbox"/>	Nitrile Gloves	<input type="checkbox"/>	Hot/Cold Thermal Protective Gloves
<input type="checkbox"/>	Chemical Resistant Gloves (Specify Type)	<input type="checkbox"/>	Respirators
<input type="checkbox"/>	Other (Specify)	<input type="checkbox"/>	Fall Protection Equipment (Specify)

Equipment required for the job: (List the tools needed to perform the job.)

Tarp, Plastic sheet. PPE as above. HEPA vacuum for Lead. Paint, Rollers Two sheets of plywood for flipping lead.

Work Plan History Information: (List any lessons learned accidents from this job, tips from previous jobs) Initial task will be performed as if lead worker training is necessary. After sampling requirements, may be lowered to Lead handling reqs.

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Step	Description	Hazards	Precautions / Safety Procedures
1	Vacuum skid Remove packing and store. Vacuum packing and surfaces.	Lead contamination	Full lead worker PPE with respirator Sample exposure.
2	Move lead to table for measuring thickness. Measure. Move to tarp.	Dropping lead sheet. Finger pinch. Back injury	Use vacuum fixture and crane. Crane to be operated by trained crane operator. Wear nitrile gloves under any other gloves if other gloves are preferred. Raise load only as high as needed. Stay out from under load. Clean vacuum fixture after use with maslin.
3	Paint Lead	Ventilation. Slipping hazard	Keep area well ventilated. Do not walk on painted surface. Wear Tyvek overalls to protect clothing from paint, nitrile gloves.
4	Flip lead	Back injury	Use proper lifting technique. Use plywood and clamps. Use crane. Crane to be operated by trained crane operator
5	Restack lead	Dropping lead sheet. Finger pinch. Back injury	Use vacuum fixture and crane. Crane to be operated by trained crane operator. Wear gloves. Raise load only as high as needed. Stay out from under load
6			
7			
8			
9			
10			

(Use additional pages as needed.)

My supervisor has reviewed this hazard analysis with me and I understand the hazards and required precautionary actions. I will follow the requirements of this hazard analysis or notify my supervisor if I am unable to do so. I understand that there are Environmental, Safety and Health Professionals on staff if I need further assistance or clarification.

Name and ID (please print)

Signature

Date

C. Richardson 3648



1-16-08

K. TAHERI 4292



1-17-08