LOGSHEET FOR CHANGES TO CONTROLLED DOCUMENTS

Change Number	Date	Document Number	Document Title	Location or section	Description of Change(s)	Responsible Manager Approval	ESH&Q Approval	Radiological Engineering Approval	Quality Assurance Approval	Completion Of ADM 2.01 Checklist	Completion Of SES/USQD Checklist
9	1/5/99	RF/RMRS-98-010	Final Site Specific Health And Safety Plan For The Source Removal At Trench 1 IHSS 108	Appendix B Soil Transport and Backfill AHA	Add section to the AHA to address installing a sheet metal retaining wall in front of the 2 to 5 gallon container in the trench wall.	2/18/99	2/18/99	2/18/99	2/18/99	N/A	N/A
9	1/21/99	RF/RMRS-98-010	Final Site Specific Health And Safety Plan For The Source Removal At Trench 1 IHSS 108	Appendix B -Removal of the Discovered Containers at Trench 1 (IHSS 108) AHA	Add a new AHA to address the removal of the discovered containers manually instead of using heavy equipment.	2/18/99	2/18/99	2/18/99	2/18/99	N/A	N/A
9	2/4/99	RF/RMRS-98-010	Final Site Specific Health And Safety Plan For The Source Removal At Trench 1 IHSS 108	Appendix B Assing Damage and Securing Wind Damaged Structure Door at Trench 1 (IHSS 108) AHA	Add a new AHA to address the assessing the wind damage and securing the wind damaged T-1 tent structure door.	2/18/99	2/18/99	2/18/99	2/18/99	N/A	N/A
9	2/4/99	RF/RMRS-98-010	Final Site Specific Health And Safety Plan For The Source Removal At Trench 1 IHSS 108	Appendix B Removing and Repairing the Wind Damage Structure Door at Trench 1 (IHSS 108) AHA	Add a new AHA to address the removal and repair of the wind damaged tent structure door.	2/18/99	2/18/99	2/18/99	2/18/99	N/A	N/A

[1] Affixed signatures indicate that Operations Review Committee (ORC) and/or Independent Safety Reviews are NOT applicable because Scope and Fundamental Technical Specifications were Not changed. Also, related documents affected by the change(s) were modified accordingly.

TRENCH 1 SOURCE REMOVAL PROJECT

SOIL TRANSPORT AND BACKFILL

Activity Hazard Analysis

1-5-99

NOTE: This Activity Hazard Analysis is to be used in conjunction with "Trench 1 Source Removal Project General Project Hazards" Activity Hazard Analysis.

Activity	Hazard	Preventative Measures
Front-end loader and Compactor operations	Front-end loader or Compactor in poor operating condition	The operator will inspect the front end loader prior to the beginning of each shift. These inspections will be documented.
	Ground personnel being struck with front-end loader or Compactor	Front-end loader operating areas will be established and personnel will remain clear of these areas. A Spotter will be used to assist the operator during the backfill operations.
Heavy equipment entering the trench to backfill soil	Equipment being engulfed in soil	Equipment will not be operated in the trench if the floor of the cab below the top of the trench.
	Equipment stalling or getting stuck in the trench	Operators will not be allowed to exit the vehicle while it is in the trench, until the following steps are met. 1. K-H Excavation Specialist will evaluate the trench for stability and safety prior to entry. 2. Confine Space Permits will be completed, all IH air monitoring will be completed and all safety equipment will be in place proir to entry.

Activity	Hazard	Preventative Measures
Installation of a sheet steel retaining wall in front of the 2 to 5 gallon container in the north wall of the trench at the 142 foot point.	Personnel entering the trench	The trench will be backfilled to less than a 4 foot depth to allow personnel to enter without it being considered a confined space entry. K-H Excavation Specialist will evaluate the trench for stability and safety prior to entry.
	Pinch point and sharp edges	Personnal handling sheet metal will wear heavy leather work gloves. Personnel will be aware of pinch points and keep fingers clear at all times.
Dumping or moving soil	Generation of airborne dust	The operator will carefully dump and move soil. Dust suppression will be conducted as required.

Approved:	Signature	Date
RMRS Project Manager-Bob Griffis		1/5/99
RMRS H&S Supervisor-Anthony Medina		1/7/99
RMRS Radiological Engineer-Bates Estabrook		1/7/99

TRENCH 1 SOURCE REMOVAL PROJECT

REMOVAL OF THE DISCOVERED CONTAINER AT TRENCH 1 (IHSS 108)

Activity Hazard Analysis

1-21-99

NOTE: This Activity Hazard Analysis is to be used in conjunction with "Trench 1 Source Removal Project General Project Hazards" Activity Hazard Analysis presented in the Site-Specific Health and Safety Plan for the Source Removal at Trench 1 Site, IHSS 108, RF/RMRS-97-010.

Activity	Hazard	Preventative Measures
Construction and demoblization of the enclosure around the container location.	Collapse of the enclosure structure	Experienced trades personnel will construct the enclosure with the assistance of Engineering and RCT personnel. The enclosure will be constructed of light weight material such as PVC tubing and clear visqueen.
	Personnel falling into the excavation	Since the excavation is less than 4 feet deep fall protection is not required, so limiting exposure to falling hazard is necessary. Brief personnel on being careful when working near the edge of the excavation.
	Fire	The enclosure will be constructed of noncombustible or fire retardent materials in accordance with HSP-34.09 "Plastic House Fire Protection"
Venting the container prior to removal from the excavation wall.	Pressurized container	The container will be pierced with a non-sparking tool attached to an 8 to 10 foot length of pipe.

Activity	Hazard	Preventative Measures
Venting the container prior to removal from the excavation wall. (Continued)	Pressurized container	Personnel will only expose the upper portion of the container prior to venting, allowing the soil surrounding the container to help prevent an uncontrolled pressure release. Personnel will rest the non-sparking tool on the top edge of the retaining wall; place the tool against the upper portion of the container; stand back at the opposite end of the tool off to one side; and use a small sledge hammer to tap the end to pierce the container in a controlled manner.
	Fire	Inside the enclosure sand and soil will be used for suppression of fires that involve DU or unknown metal materials. Met-L-X Fire Extinguishers will also be available to use as a last resort for unknown metal type fires, because Met-L-X may react adversly with some radioactive material. ABC Fire Extinguishers will not be used for metal type fires, they should be utilized for any fires that involve the enclosure or other objects. HSS will conduct continuous heat test measurement on containers using a hand held infrared thermometer. Combustable material will be kept away from the container area.

Activity	Hazard	Preventative Measures
Excavation of the container by hand.	Personnel being struck in the legs by falling rocks or soil	Personnel will remove the soil from above and around the container in a safe and controlled manner. The proper tools will be used and the tools will be in good condition. A sheet steel retaining wall has been installed in front of the container to control the collapse of the soil.
	Fire	Inside the enclosure sand and soil will be used for suppression of fires that involve DU or unknown metal materials. Met-L-X Fire Extinguishers will also be available to use as a last resort for unknown metal type fires, because Met-L-X may react adversly with some radioactive material. ABC Fire Extinguishers will not be used for metal type fires, they should only be utilized for any fires that involve the enclosure or other objects. HSS will conduct continuous heat test measurement on containers using a hand held infrared thermometer. Combustable material will be kept away from the container area.

Activity	Hazard	Preventative Measures
Personnel handling the container manually.	Back injury or spread of contamination	While personnel are excavating the container and prior to moving the container, personnel will evaluate the physcial condition of the container to determine if it can be moved easily without back injury or without spread of contamination. If the container is to heavy to lift safely and/or is in poor physcial condition, a 55 gallon overpack container will be layed down and secured with the open end toward the container, so the container can be slid into the overpack by hand or with shovels. Once the container is in the overpack, personnel will stand up the overpack in a safe and controlled manner. Contaminated soil will be placed on plastic sheeting or in plastic bags to control spread of contamination.
Sampling the contents of the container.	Spread of contamination	Prior to opening the container plastic sheeting or a plastic bag will be placed underneath and/or around the container to contain potential contamination while sampling the contents. Personnel will conduct the sampling under the direction of the T-1 Sample Manager and in accordance with the Sampling and Analysis Plan (SAP).
Use of breathing air supply trailer to trans-fill the MSA Quickfill SCBAs .	Improper use of breathing air system	Personnel will be trained in the use and operation of the breathing air system.
	Loss of air supply to the workers in SCBA	A trained person will continuously monitor the air supply system, while workers are in Level-B Respiratory Protection.

Approved:	Signature	Date
RMRS Project Manager-Bob Griffis	R L Griffis	1/26/99
RMRS H&S Supervisor-Anthony Medina	[signature]	1/26/99
RMRS Radiological Engineer-Bates Estabrook	[signature]	1/26/99
K-H Fire Protection Engineering	[signature]	1/26/99

TRENCH 1 SOURCE REMOVAL PROJECT

ASSESSING DAMAGED AND SECURING WIND DAMAGED STRUCTURE DOOR

Activity Hazard Analysis

2-4-99

NOTE: This Activity Hazard Analysis is to be used in conjunction with "Trench 1 Source Removal Project General Project Hazards" Activity Hazard Analysis.

Activity	Hazard	Preventative Measures
Assessing damage and securing the wind damaged door on top of the structure with 3/8 inch aircraft cable (or 5/8 inch nylon rope temporarily).	Personnel and equipment being struck by falling debris	Personnel and heavy equipment will remain out from under the damaged door. Personnel will wear hard hats and safety glasses at all times. An aerial Lift maybe used to place the cable (or rope) over the door arches.
	Pinch point and sharp edges	Personnel handling sheet metal will wear heavy leather work gloves. Personnel will be aware of pinch points and keep fingers clear at all times.
	Improper use of Aerial Lift	Only trained and qualified personnel will operate aerial lift. Operator will inspect equipment prior to use. Personnel will wear fall protection while operating the aerial lift.

Approved:	**Signature**	**Date**
RMRS Project Manager-Bob Griffis		2/4/99
RMRS H&S Supervisor-Anthony Medina		2/4/99

TRENCH 1 SOURCE REMOVAL PROJECT

REMOVING AND REPAIRING THE WIND DAMAGED STRUCTURE DOOR

Activity Hazard Analysis

2-4-99

NOTE: This Activity Hazard Analysis is to be used in conjunction with "Trench 1 Source Removal Project General Project Hazards" Activity Hazard Analysis.

Activity	Hazard	Preventative Measures
Hoisting and rigging with a crane for removing damaged door arches	Crane and all hoisting and rigging equipment in poor operating condition	• Crane and all hoisting and rigging equipment will be inspected prior to entering RFETS. • The operators will inspect and document crane and all hoisting and rigging equipment prior to the beginning of each shift or prior to use. • All hoisting and rigging accessories, where feasible, must have legible tags or labels indicating capacities, if the tags is damaged or not legible or the pieced of equipment is damaged in any way, it must be placed out of service immediately. • Hoisting and rigging operation will be performed in accordance with HSP-12.02 and the Hoisting and Rigging Checklist will be completed.
	Improper operation and use of crane and all hoisting and rigging equipment	• Personnel will be experienced and knowledgeable in the use and limitation s of the equipment. • Any hoisting and rigging operation will be approved and performed in accordance with Hoisting and Rigging Checklist RFETS HSP 12.02, Appendix 2.
	Electrical shock	• Crane will be operated with a 10' minimum clearance between the power lines and any part of the equipment.

Activity	Hazard	Preventative Measures
		• A spotter will be required when moving suspended loads.
	Ground personnel being struck with suspended or falling loads	• Ground personnel will wear orange vests, stay at least 20' away from crane, and maintain line of sight with the operators. • Loads will be properly secured and ground personnel, while assisting with the positioning arches, will use tag lines. • Tag lines will not be wrapped around the hand. • Ground personnel will never stand directly below a suspended load.
	Other equipment being struck with heavy equipment	• Crane operations will be conducted in a safe manner. • A spotter will be required when moving suspended loads.
	Pinch point and sharp edges	Personnel handling cable will wear heavy leather work gloves. Personnel will be aware of pinch points and keep fingers clear at all times.
	Improper use of Aerial Lift	Only trained and qualified personnel will operate aerial lift. Operator will inspect equipment prior to use Personnel will wear fall protection will operating the aerial lift..

Approved: **Signature** **Date**

RMRS Project Manager-Bob Griffis R L Griffis 12/4/99

RMRS H&S Supervisor-Anthony Medina 12/4/99