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1	I	Cog. Eng. R. G. Brown	<i>[Signature]</i>	7/1/99	S7-12						
1	I	Cog. Mgr. J. S. Schofield	<i>[Signature]</i>	7/1/99	S7-12						
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18. <i>[Signature]</i> 7/1/99 T. E. Rainey Signature of EDT Originator Date		19. <i>[Signature]</i> 7/1/99 Authorized Representative for Receiving Organization Date		20. <i>[Signature]</i> 7/1/99 R. M. Boger Design Authority/Cognizant Manager Date		21. DOE APPROVAL (if required) Ctrl No. _____ ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments	
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DECISION DOCUMENT FOR THE STORAGE AND MAINTENANCE ACTIVITIES OF CHARACTERIZATION LONG LENGTH CONTAMINATED EQUIPMENT REMOVAL SYSTEM

R. M. Boger

Prepared by Lockheed Martin Hanford Corporation
Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

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Abstract: The Long Length Contaminated Equipment Removal System (LLCERS) was designed to aid in the removal of long contaminated equipment from tanks. The equipment has been stored in an open laydown yard with no weather protection. After a review of alternatives for storage of the LLCERS an decision was made to lease a steel rib framed fabric structure to store the equipment.

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Date

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**DECISION DOCUMENT FOR THE STORAGE AND MAINTENANCE
ACTIVITIES OF CHARACTERIZATION LONG LENGTH
CONTAMINATED EQUIPMENT REMOVAL SYSTEM**

Prepared by

T. E. Rainey

for the

Lockheed Martin Hanford Corporation
Richland, Washington

**DECISION DOCUMENT FOR THE STORAGE AND MAINTENANCE
ACTIVITIES OF CHARACTERIZATION LONG LENGTH
CONTAMINATED EQUIPMENT REMOVAL SYSTEM**

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APPROVALS

R. M. Boger, Decision Action Officer 7/1/99
Date

M. D. Hasty, Decision Maker 7/1/99
Date

DECISION DOCUMENT FOR THE STORAGE AND MAINTENANCE ACTIVITIES OF CHARACTERIZATION LONG LENGTH CONTAMINATED EQUIPMENT REMOVAL SYSTEM

1.0 STATEMENT OF THE ISSUE

Major pieces of Characterization Sampling Equipment are currently stored outdoors. This includes the Long Length Contaminated Equipment Removal System (LLCERS). A decision required determining the preferred alternative for facilities to store and maintain this equipment.

2.0 DATE OF SELECTION

The date of the decision is the date this document is signed by the Decision Maker.

3.0 DECISION MAKER

The Decision Maker is M. D. Hasty, RPP Manager, Characterization Project Operations.

4.0 DECISION ACTION OFFICER

The Decision Action Officer is R. M. Boger, RPP Manager, Characterization Engineering.

5.0 ALTERNATIVE SELECTED

The selected alternative is to lease a fabric-covered frame shelter to be erected just northeast of 2101HV. This location is similar to the laydown yard north of 2704HV with the exception that it is utilized by RPP Characterization Project. The *Alternative Generation and Analysis Report, Storage and Maintenance Activities of Characterization Long Length Contaminated Removal System, HNF-4329, Rev. 0* (Deichelbohrer 1999) alternatives evaluation determined the preferred alternative to be the purchase of a fabric structure to be located just west of the cold test facility off Route 3. Because of the timing of available funding, there are insufficient resources available to purchase a structure and make road and site improvements in a timely manner.

6.0 DECISION CRITERIA

A decision criterion is a factor used to select a preferred alternative. The following relevant decision criteria were chosen for the conduct of the decision analysis process involved in the preparation of the Alternatives Generation Analysis (AGA) report and Decision Analysis (Deichelbohrer 1999).

- **Cost:** The cost of the alternative is the total cost with the assumption that the life cycle is complete within ten years.
- **Safety:** Impact on the health and safety of Hanford Site workers and the off-site population from radiological, toxicological, industrial, and environmental hazards associated with work-site activities. Controlling radiation exposure to employees at levels that are as low as reasonably achievable (ALARA) shall be a primary goal.
- **Operability:** "Ease of Use" operability measures to consider include preparation of equipment for first deployment, preventive maintenance (before and after deployment), storage of contaminated equipment, and availability of equipment for training.
- **Equipment Protection:** The impact on the condition of the equipment while in storage shall be considered, including the amount of degradation of parts and systems.
- **Accountability:** The physical security of all equipment.
- **Programmatic risk:** Alternatives are evaluated based on the ability to meet current and potential future requirements for equipment use.

7.0 ASSUMPTIONS

Major assumptions for this decision are that funding to procure a structure or make road and site improvements will not be available in FY 1999. The equipment should be sheltered before the end of FY 1999. Additional assumptions are included in the AGA (Deichelbohrer).

8.0 ALTERNATIVES REJECTED

The following alternatives were considered. A detailed description of the alternatives and the reasons why most were rejected are included in the *Alternative Generation and Analysis Report, Storage and Maintenance Activities of Characterization Long Length Contaminated Removal System, HNF-4329, Rev. 0* (Deichelbohrer 1999):

- Use Building 337/300 high bay
- Use Building 335/300 maintenance shop
- Use Building 167 at WNP-1
- Use Building 274EA/200E
- New facility
 - Purchase fabric/PVC structure
 - Lease fabric/PVC structure
 - Purchase pole/wood frame structure
 - Purchase metal building
- Store and maintain in place

- Do nothing

For new facilities alternatives for the location were evaluated. These included three areas near the cold test facility off Route 3 and the laydown yard north of 2704HV/200 East Area.

9.0 REFERENCES

Deichelbohrer, P. R., 1999, *Alternatives Generation and Analysis Report, Storage and Maintenance Activities of Characterization Long Length Contaminated Removal System*, HNF-4329, Rev. 0, Lockheed Martin Hanford Corporation, Richland, Washington.

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