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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

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Reason	Disp.								
1	/	Cog. Eng.: BD Flanagan	<i>[Signature]</i>	7/5/96	G1-11	PC Ohl	<i>[Signature]</i>	7/16/96	R1-30
1	/	Cog. Mgr.: JG Field	<i>[Signature]</i>	7/16/96	G1-11	MS Tiffany	<i>[Signature]</i>	7/16/96	S5-05
1	/	QA: CR Hoover	<i>[Signature]</i>	7/15/96	G1-11	RJ Smith	<i>[Signature]</i>	7/15/96	G1-11
1	/	Safety: AM Zaman	<i>[Signature]</i>	7/17/96	B1-10				
		Env.							
1	/	TH Bleak	<i>[Signature]</i>	7/16/96	S5-13				
1	/	GN Hanson	<i>[Signature]</i>	7/16/96	S5-05				

18. Signature of EDT Originator <i>[Signature]</i> 7/15/96		19. Authorized Representative Date for Receiving Organization <i>[Signature]</i> 7/16/96		20. Participant Manager Date <i>[Signature]</i> 7/16/96		21. DOE APPROVAL (if required) Ctrl. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments	
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Safety Evaluation for Packaging (Onsite) for the PUREX Facility MC-312 Cargo Tank

B. D. Flanagan

Westinghouse Hanford Company, Richland, WA 99352

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Abstract: This safety evaluation for packaging authorizes transport of sodium hydroxide solutions, potassium hydroxide solutions, and water in the MC-312 cargo tank, registration number H0-64-05473, on the Hanford Site without a complete U.S. Department of Transportation maintenance inspection. These materials are acceptable for transport in the MC-312 cargo tank per 49 CFR 172.101.

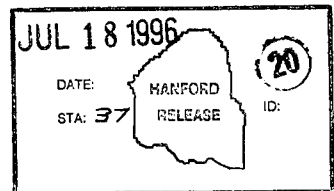
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Release Approval

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LIST OF TERMS

ALARA
DOT
SEP

as low as reasonably achievable
U.S. Department of Transportation
safety evaluation for packaging

SAFETY EVALUATION FOR PACKAGING (ONSITE) FOR THE PUREX FACILITY MC-312 CARGO TANK

1.0 INTRODUCTION

The purpose of this safety evaluation for packaging (SEP) is to authorize transport of sodium hydroxide solutions, potassium hydroxide solutions, and water in the MC-312 cargo tank, registration number HO-64-05473, on the Hanford Site without a complete U.S. Department of Transportation (DOT) maintenance inspection. These materials are acceptable for transport in the MC-312 cargo tank per 49 CFR 172.101.

2.0 PACKAGING SYSTEM

The MC-312 cargo tank has not completed the maintenance inspection schedule per DOT 49 CFR 180.407, in particular the internal visual inspection. However, the cargo tank external visual inspection, pressure test, and leakage test requirements per 49 CFR 180.407 will be current prior to any transports.

The cargo tank was built in 1986, has been in continuous service since, and has been maintained in excellent condition. The trailer meets all DOT regulations except for the aforementioned inspection.

3.0 SAFETY EVALUATION

The internal visual inspection is being waived for as low as reasonably achievable (ALARA) concerns. In the past, the cargo tank has been used for transporting low-level uranyl nitrate hexahydrate waste, which has left the cargo tank contaminated. Also transported have been low pH caustic solutions and water, all of which were noncorrosive to the cargo tank's stainless steel construction.

This SEP is prepared to document that the cargo tank is acceptable for onsite use based on DOT compliance with the exception of the maintenance inspection. Having only transported materials not corrosive to stainless steel, it is unlikely that any degradation to the inside of the tank has occurred. Furthermore, by complying with all other requirements of 49 CFR 180.407, the cargo tank is shown to be in an acceptable and safe condition.

4.0 OPERATING REQUIREMENTS

The following requirements are for the HO-64-05473 cargo tank only.

- The intended use is for transport north of the Wye Barricade. If transported south of the Wye Barricade, then administrative controls including road closures shall be included.
- All MC-312 requirements must be met except for the aforementioned inspection.
- All DOT hazardous material (corrosive) transport requirements must be met.
- The requirements of WHC-CM-2-14, *Hazardous Material Packaging and Shipping*, must be followed.

5.0 REFERENCES

- 49 CFR 172, Subpart B, 1996, "Table of Hazardous Materials and Special Provisions," *Code of Federal Regulations*, as amended.
- 49 CFR 180, 1996, "Continuing Qualification and Maintenance of Packagings," *Code of Federal Regulations*, as amended.
- WHC-CM-2-14, *Hazardous Material Packaging and Shipping*, Westinghouse Hanford Company, Richland, Washington.

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Hanford Company**

Richland, Washington

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

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Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
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