

JAN 28 1998  
Sta. 37

ENGINEERING DATA TRANSMITTAL

2. To: (Receiving Organization) <b>Packaging Engineering</b>		3. From: (Originating Organization) <b>Packaging Engineering</b>		4. Related EDT No.: <b>NA</b>	
5. Proj./Prog./Dept./Div.: <b>03E00</b>		6. Design Authority/ Design Agent/Cog. Engr.: <b>P. C. Ferrell</b>		7. Purchase Order No.: <b>NA</b>	
8. Originator Remarks: <b>For approval.</b>				9. Equip./Component No.: <b>NA</b>	
				10. System/Bldg./Facility: <b>NA</b>	
11. Receiver Remarks:    11A. Design Baseline Document? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				12. Major Assm. Dwg. No.: <b>NA</b>	
ENGINEERING DATA TRANSMITTAL				13. Permit/Permit Application No.: <b>NA</b>	
				14. Required Response Date:	

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	HNF-2167		0	Safety Evaluation for Packaging (Onsite) Nitrogen Trailers Propane Tanks	SQ	1		

16. KEY			
Approval Designator (F)	Reason for Transmittal (G)		Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval	4. Review	1. Approved
	2. Release	5. Post-Review	2. Approved w/comment
	3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment
			4. Reviewed no/comment
			5. Reviewed w/comment
			6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
		Design Authority				1	/	AJ Kostelnik		1/20/98	S7-12
		Design Agent				1	/	S.S. Shiray		1/28/98	
1	/	Cog. Eng.: PC Ferrell	<i>PC Ferrell</i>	1/20/98	H1-15						
1	/	Cog. Mgr.: JG Field	<i>JG Field</i>	1/28/98	H1-15						
1	/	QA: CR Hoover	<i>CR Hoover</i>	1/20/98	H1-15						
1	/	Safety: T Romano	<i>T Romano</i>	1-23-98	H1-15						
		Env.									

18. <b>P. C. Ferrell</b> Signature of EDT Originator    Date: 1/20/98		19. _____ Authorized Representative Date for Receiving Organization		20. <b>J. G. Field</b> Signature of Design Authority/ Cognizant Manager    Date: 1/28/98		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) Nitrogen Trailers Propane Tanks

**P. C. Ferrell**

Waste Management Federal Services, Inc., Northwest Operations,  
Richland, WA 99352  
U.S. Department of Energy Contract DE-AC06-96RL13200

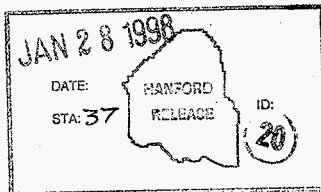
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B&R Code: EW3120074 Total Pages: ~~6~~ 5  
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Key Words: Safety Evaluation for Packaging, Onsite, Nitrogen Trailers Propane Tanks

Abstract: The purpose of the Safety Evaluation for Packaging (SEP) is the evaluation and authorization of the onsite transport of propane tanks that are mounted on the Lockheed Martin Hanford Corporation Characterization Project's nitrogen trailers. This SEP authorizes onsite transport of the nitrogen trailers, including the propane tanks, until May 31, 1998.

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*Janis Aardal* 1-28-98  
Release Approval Date

Release Stamp

**Approved for Public Release**

**SAFETY EVALUATION FOR PACKAGING (ONSITE)  
NITROGEN TRAILERS PROPANE TANKS**

The purpose of this Safety Evaluation for Packaging (SEP) is the evaluation and authorization of the onsite transport of the propane tanks that are mounted on the Lockheed Martin Hanford Corporation (LMHC) Characterization Project's nitrogen trailers. The three nitrogen trailers (HO-64-4966, HO-64-4968, and HO-64-5170) are rated for 1,361 kg (30,000 lb) and are equipped with tandem axles and pintel hitches. Permanently mounted on each trailer is a 5,678 L (1,500 gal) cryogenic dewar that is filled with nitrogen, and a propane fired water bath vaporizer system, and a 454 L (120 gal) propane tank. The nitrogen trailer system is operated only when it is disconnected from the tow vehicle and is leveled and stabilized. When the trailers are transported, the propane tanks are isolated via closed supply valves.

The propane tanks are rated as storage containers for permanent installation on consumer premises. The propane tanks are not rated for normal transport and are not U.S. Department of Transportation (DOT) specification tanks. However, propane storage containers may be shipped under DOT regulations if they meet the requirements of 49 CFR 173.315(j). This regulation allows for the transport of propane tanks to and from the seller and consumer locations. The following is an evaluation of the propane tank's compliance with 49 CFR 173.315(j).

1. The tank must be constructed in compliance with the requirements of the American Society of Mechanical Engineers (ASME) Code and must be marked to indicate compliance in the manner specified by the respective code.

*Evaluation:* The attached data reports verify that the propane tanks meet this requirement. The tanks were fabricated and are currently marked in accordance with the ASME Code.

2. Each tank must be equipped with safety devices in compliance with the requirements for safety devices on containers as specified in the National Fire Protection Association (NFPA) pamphlet no. 58 (NFPA 1995).

*Evaluation:* Each propane tank has a safety valve that was installed by the manufacturers per the requirements of NFPA pamphlet no. 58 (NFPA 1995).

3. The containers shall be so braced or otherwise secured on the vehicle as to prevent relative motion while in transit. Valves or other fittings shall be adequately protected against injury during transport.

*Evaluation:* The propane tanks are bolted to the trailers and will not move relative to the surrounding equipment mounted on the trailers. A protective shroud is placed over most of the tank valving during transport. The propane tank is located between the nitrogen tank and the vaporizer system, and is inboard from the sides of each trailer. As such, the propane tanks are adequately protected and secured during transport.

4. Storage tanks of less than 473 L (125 gal) may be shipped when charged with propane in compliance with DOT filling density.

*Evaluation:* This requirement will need to be verified prior to each shipment.

Although the propane tanks meet the requirements of 49 CFR 173.315(j), they are not rated for continuous transport and are not DOT specification containers. As a result of this finding, this SEP was prepared to authorize interim use of the nitrogen trailers while a permanent solution can be developed.

This SEP authorizes onsite transport of the nitrogen trailers, including the propane tanks until May 31, 1998.

#### REFERENCES

- 49 CFR 173.315, 1996, "Compressed gases in cargo tanks and portable tanks," *Code of Federal Regulations*, as amended.
- NFPA, 1995, *Standard for the Storage and Handling of Liquefied Petroleum Gases*, Pamphlet No. 58, prepared by the Technical Committee on Liquefied Petroleum Gases and acted on by National Fire Protection Association, Inc., at Fall Meeting, November 14-18, 1994 in Toronto, Ontario, Canada, issued February 7, 1995.

ATTACHMENT: MANUFACTURER'S DATA REPORT FOR THE PROPANE TANKS.

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS  
 (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) S/O  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and Certified by AMERICAN WELDING & TANK CO., DIVISION OF PLANT CITY STEEL CO  
HARSCO CORP-PLANT #5, 5520 OLD BINGHAM HWY. WEST JORDAN, UT 840

2. Manufactured for STOCK

3. Location of Installation \_\_\_\_\_

4. Type: HORIZONTAL 7SA00284-7SA00342 A-120, REV. B 1974  
(Type or part name) (Mfg.'s Serial No.) (CPN) (Drawing No.) (Part's Bld. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1, 1972  
Year

Address: 1972 N/A N/A  
(Date) (Code Class No.) (Special Service per US-1200)

6. Shell: SA-414-G .159" 0 2' 0" O.D. 4'-6.25"  
(Mat. Spec. No., Grade) (Wall Thk. (in)) (Corr. Allow. (in)) (SINGL. W.L.D.) (Length (overall) (ft & in))

7. Seams: WLD. DBL-BUTT FULL 100 --- --- --- SPOT 1  
(Welding Det. Spec. (see Part 1)) (RT Spec. (see Part 1)) (ER % (see Part 1)) (KV Temp. (°F)) (Time (hr)) (Mat. (see Part 1)) (Welding Det. Spec. (see Part 1)) (RT Spec. (see Part 1)) (No. of Courses or Passes)

8. Heads: (a) SA-455 (b) SA-455  
(Mat. Spec. No., Grade) (Mat. Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Membrane Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a) END	.159"	0			2:1				CONCAVE
(b) END	.159"	0			2:1				CONCAVE
If removable, bolts used (describe other fastenings) _____ <small>(Mat. Spec. No., Gr., Size, No.)</small>									

9. MAWP 250 psi at max temp. 650 °F  
 Min. design metal temp. -20 °F at 15 psi. Hydro. pres. or code test pressure 375 psi.

10. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Gr. or Size	Type	Mat.	Non-Test	Reinforcement Mark	How Attached	Location
OUTLET	2	.75"	FLG	SA-105 3000#		INHERENT	WELDED	SHELL
INLET	1	1.25"	FLG	SA-105 3000#		INHERENT	WELDED	SHELL
SAIUGE	1	1.25"	FLG	SA-105 3000#		INHERENT	WELDED	SHELL
SAFETY VALVE	1	.75"	FLG	SA-105 3000#		INHERENT	WELDED	SHELL

11. Supports: Skirt NO Legs 4 Other \_\_\_\_\_ Attached SHELL/WELDED  
(Yes or No) (No) (No) (Description) (Where & How)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: \_\_\_\_\_  
(Name of part, item number, Mfg.'s name and identifying marks)

120 GAL CAPACITY STORAGE TANK FOR LIQUEFIED PETROLEUM GAS, AG, NON-CORROSIVE SERVICE, 24" DIAMETER X 68" O.A.L., U.L. LISTED, CIRCUMFERENTIAL JOINTS CONSTRUCTED PER UW-13.1.(K), CONSTR PER PROVISIONS OF UG-90(C) (2) AND UG-20(F) REAL TIME RADIOGRAPHIC EXAMINATION PERFORMED.

CERTIFICATE OF SHOP COMPLIANCE  
 We certify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1, UG-100, UG-101, UG-102, UG-103, UG-104, UG-105, UG-106, UG-107, UG-108, UG-109, UG-110, UG-111, UG-112, UG-113, UG-114, UG-115, UG-116, UG-117, UG-118, UG-119, UG-120, UG-121, UG-122, UG-123, UG-124, UG-125, UG-126, UG-127, UG-128, UG-129, UG-130, UG-131, UG-132, UG-133, UG-134, UG-135, UG-136, UG-137, UG-138, UG-139, UG-140, UG-141, UG-142, UG-143, UG-144, UG-145, UG-146, UG-147, UG-148, UG-149, UG-150, UG-151, UG-152, UG-153, UG-154, UG-155, UG-156, UG-157, UG-158, UG-159, UG-160, UG-161, UG-162, UG-163, UG-164, UG-165, UG-166, UG-167, UG-168, UG-169, UG-170, UG-171, UG-172, UG-173, UG-174, UG-175, UG-176, UG-177, UG-178, UG-179, UG-180, UG-181, UG-182, UG-183, UG-184, UG-185, UG-186, UG-187, UG-188, UG-189, UG-190, UG-191, UG-192, UG-193, UG-194, UG-195, UG-196, UG-197, UG-198, UG-199, UG-200, UG-201, UG-202, UG-203, UG-204, UG-205, UG-206, UG-207, UG-208, UG-209, UG-210, UG-211, UG-212, UG-213, UG-214, UG-215, UG-216, UG-217, UG-218, UG-219, UG-220, UG-221, UG-222, UG-223, UG-224, UG-225, UG-226, UG-227, UG-228, UG-229, UG-230, UG-231, UG-232, UG-233, UG-234, UG-235, UG-236, UG-237, UG-238, UG-239, UG-240, UG-241, UG-242, UG-243, UG-244, UG-245, UG-246, UG-247, UG-248, UG-249, UG-250, UG-251, UG-252, UG-253, UG-254, UG-255, UG-256, UG-257, UG-258, UG-259, UG-260, UG-261, UG-262, UG-263, UG-264, UG-265, UG-266, UG-267, UG-268, UG-269, UG-270, UG-271, UG-272, UG-273, UG-274, UG-275, UG-276, UG-277, UG-278, UG-279, UG-280, UG-281, UG-282, UG-283, UG-284, UG-285, UG-286, UG-287, UG-288, UG-289, UG-290, UG-291, UG-292, UG-293, UG-294, UG-295, UG-296, UG-297, UG-298, UG-299, UG-300, UG-301, UG-302, UG-303, UG-304, UG-305, UG-306, UG-307, UG-308, UG-309, UG-310, UG-311, UG-312, UG-313, UG-314, UG-315, UG-316, UG-317, UG-318, UG-319, UG-320, UG-321, 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