APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

1 APPROVAL REQUESTED OF: PRECEDENT	2 TYPE: CONSTRUC	TION	WELDED REP	AIRS	3 AAR NO.		Page 1 of 2 L986049A
NON-PRECEDENT	ALTERATION	V	OTHER		4 DATE:		JUNE 9, 1998
	CONVERSIO	N			5 APPLICANT'S		97155
6 APPLICANT: TRINITY INDUSTRIES, IN			16/4		7 TANK SPECIFIC	CATION:	DOT 111A100W1
P.O. BOX 568887 DALLA					8 STENCILED SP	PEC.:	AAR 211A100W1
9 REPORTING MARKS & CAR NUMBERS EUS	X 448013 thru EUSX	448	030	one Si	10 NUMBER OF C	-	18
1 Initial commodity	SEE NOTES	112	Density, lb.	per gallon			7.2
3 Full water capacity, gal. 23,568 TC	TAL SEE PAGE 2		Dome capa			CE	E PAGE 2
	TM A516 GR. 70		Material typ				M A516 GR. 70
7 Material thickness - heads, in.	7/16		Material thi			AST	
	VCHEM 253						7/16 99
1 Inside diameter - end rings, in.	99						
3 Test pressure, psi	165	24					
5 Insulation thickness, in.	4						
7 Type and no. of safety relief devices	SEE NOTES				discharge, ps		0.29
9 Safety device flow capy., cfm reqd. 1	40- LARGEST COMPINIT				pacity, cfm, a		75
	EST COMPARTMENT		Underframe				1109
Center of gravity, loaded, in.	81.35		Est. light we		туре	STUI	B SILLTRN 023
AAR clearance diagram	C C						94,600
Truck capacity, tons	100		Rail load lim				263,000
OTES:	100	130	Head shield	S			NONE
ONE SAFETY RELIEF <u>VALVE</u> PER COMPA	RTMENT.			ate rmer ladin	g		
			1	Th	ne following p	rior app	rovals apply:
The Following Drawings Apply	Drawing Nu	umbe	er		g Number		ation/Certificate No.
General Arrangement	D-40957B						
Arrangement, Tank	D-42968 SH. 1	1E					
Reinforced Openings	D-42968 SH. 2	2A,3	,4A,5A,6				
Bolster & Draft Sill Arrgt.	D-440402 SH.					+	986075 Pending
Fittings Arrangement	D-45205B						- coord criaming
Manway Assembly	D-440077						
Protective Housing	D-45205B				The Reserve		
Venting, Loading and Discharge Valves	MIDLAND A-2	17-V	N				A916001
Safety Relief Devices	MIDLAND A-1	075					A921007
Heater Systems (Int. ☐ Ext. ☑)	SEE PAGE 2						
Gaging Device	D-42968 SH. 2	2A					
Bottom Outlet Valve	JAMESBURY 4"	AZF	RC-22HBM	T			E979037A
Jacket Anchor	B-23650					10000	L966027A
Manway cover	D-243649B						A946104A
Calculations	D-444045 SH.	1&	2			The second	
VISIONS:	. 505 1 111 6		APPLICATION				BITTING
<u>IE 15, 1998-REV. A</u> : REVISE CALCULATION ZZLEDWG. D-444045 REPLACES D-143971	S FOR UNLOADING	i	including Specific	cations, Regul	orms to all applic ations, Rules of I	able DOT	and AAR requirements e, and the DOT Railroad
			Safety Appliance	- 4	1:11:	X	Bitting
			SIGNATURE TITLE				LCAR DIVISION
PROVAL - AAR Tank Car Committee	Da		opholyed it	1 1998	IN ENGINEE	R-RAII	2
				Signa	ture on behalf	of Tank	Car Committee
RTIFICATION: The cars enumerated below	conform to the above app	rove	d description	and to all an	nlicable DOT	and AAD	roquiromente
uding Specifications, Regulations, Rules of Intenstruction will be furnished to the owner and other and Caroline and Caroline and Caroline and Caroline and	rchange and the DOT Rail	road	Safaty Applia	nco Standay	de Comune Al		cate of
als and Car Numbers:		. i all	C TO S DETOILE	mese cars	are placed in s	ETVICE.	11
12 ASX 448013 - 448030)		Name	Lu	Verke	y Da	ate $\frac{7}{31}/98$
m AAR 4-2 Revised 10/12/95			Title	Pir	ector Quality	Assura	ince

AAR Number	L986049A		
Applicant's No	97155		
Date	June 9, 1998		

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THE FOLLOWING DRAWINGS	APPLY	DRAWING NUMBER	PRECEDENT APPLICATION NUMBER
 54. MANWAY COVER INSTALLAT 55. 14" MULTI-HOUSING NOZZLE 56. 14" MULTI-HOUSING NOZZLE 57. BOTTOM OUTLET ARRANGEM 58. 3" SAFETY VALVE NOZZLE AS 59. SAFETY VALVE ARRANGEME 	ASSEMBLY COVER FLANGE IENT SSEMBLY	D-443618D D-440110A D-440133 D-45802A B-27514H D-45507A	L986056

LINE 48----HEATER SYSTEMS

EXTERIOR COIL ARRANGEMENT (COMPARTMENTS 1 & 4) ---- D-140753 SH. 1 & 2 EXTERIOR COIL ARRANGEMENT (COMPARTMENTS 2 & 3) ---- D-140754 SH. 1 & 2

LINES 13 & 14--FULL WATER CAPACITY AND OUTAGE

LINE 13 ---- FULL WATER CAPACITY:

COMPARTMENT NO. 2 COMPARTMENT NO. 3	7586 GALLONS 4198 GALLONS 4198 GALLONS 7586 GALLONS
	23,568 GALLONS

LINE 14 --- OUTAGE--- 2%

TOTAL	472	GALLONS
COMPARTMENT NO. 4		
COMPARTMENT NO. 3	84	GALLONS
COMPARTMENT NO. 2	84	GALLONS
COMPARTMENT NO. 2	132	OALLONS
COMPARTMENT NO. 1	152	GALLONS

THE TANK CARS OF THIS APPLICATION ARE DESIGNED IN ACCORDANCE WITH AAR STANDARD S-259 FOR FREIGHT CARS FOR POTENTIAL SERVICE AT 286,000 LB. GROSS RAIL LOAD.

APPLICATION BY	William R. Bitting
I certify that the foregoing of	conforms to all applicable DOT and
AAR requirements, including	ng Specifications, Regulations, Rules
Standards	Railroad Safety Appliance
SIGNATURE Edite	ciam R. Bitting

TITLE

Design Engineer - Railcar Division

APPROVAL AAR Tank Car Committee

Date Approvalue 1 7 1998

(Signature) on behalf of Tank Car Committee

Form AAR 4-2.1 Revised 10-17-86

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Hague, Secretary