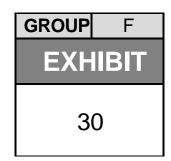


NATIONAL TRANSPORTATION SAFETY BOARD Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N derailment with subsequent hazardous material release and fires, in East Palestine, Ohio, on February 3, 2023



Agency / Organization

GATX Corporation

Title

Application for Approval and Certificate of Construction, GATX 95098, December 30, 1991

TO THE ADDRESS OF ADDRESS AL AD	d CERTIFICATE OF CONSTRUCTION
	R Tank Car AAR NO. <u>F916110</u>
AFFRUTAL REQUESTED OF L	Applicant's No. 9168
THE THE THE THE THE P.O.BO	x 568887 DALLAS, TX 75356-8887DATE: 12-30-91
Applicant TRINITY INDUSTRIES, INC. INC.	
APPLICATION FOR APPROVAL OF: D Construction	Conversion Alterations Welded
Reporting Marks	100pm110
and Car NumbersGATX	Number of Cars
DOT 105A300W	SAFETY RELIEF DEVICES:
	10 Ture VALVE Number 1
	Start to Discharge 225 psi (kPa)
a contract to the second of the second	$(12 \text{ Flow} \text{ Cap'v} (\text{Air}) \text{ Actual} 29280 \text{ cfm} (\underline{m^3/s})$
	M = M = M = M = M = M = M = M = M = M =
TANK SHELL: 5. Full Water Cap'y 25,742 gal. (L) 15. Tank Surface Area <u>1547</u> ft ² (m [*])
6. Dom : ap'y or Outage, 515 gal (LI CAR STRUCTURE.
maloon NODM $time PLASINE 307$	U 16 Undertrame VDP DIOD OTTOM
D/36 MTN $= 1$	m = 17 Fetunated 1300 mL $-00, 500$ $m = 10$ (
D/1(1) / m	- VID Conterniting VITV LOBORO JULA CAMPING V
116	-10 Reilload Limit 200,000 10 (
	m = 20 (Pruck Langelli, 1011) $- 222$
Radii) Knuckle N.A. in m 10. Test Pressure, 300 psi kF	a) 0.65" FIBERFRAX WITH 4 FIDERGEASS
$\lim_{m \to \infty} \frac{1}{m} = \frac{1}{m} \frac{1}{m}$	KING
Thermal Conductivity 0.256 Bru-in/hrft	$kJ \cdot mm/h \cdot m^2 \cdot C)$
THE PRODUCTS AUT	HORIZED IN
<u></u>	
REQUIREMENTS AND NONREGULATED COMMODIT COMPATIBLE WITH THIS CLASS OF CAR.	Former Lading
COMPATIBLE WITH THIS OHNOD OF CHILL	
	Precedent/Certificate
The Following Drawings Apply	Drawing Number Drawing Number Application/Certificate
22 General Arrangement	D-40418D D-40418B A916005A
23. Arrangement, Tank	D-42540A SH.1 D-42540 SH.1 A916005A
24. Reinforced Openings	D-42540A SH.2 D-42540 SH.2 A916005A D-260457B A916062
25. BOLSTER AND DRAFT SILL ARRANGEMENT	
26. Fittings Arrangement	D-44638 SH.1&2 D-44571 SH.1&2 A916005A D-340039 A916005A
27. Manway Assembly	<u>y y 1008</u>
28. Protective Housing	<u>D-143547</u> <u>D-44638 SH.1 D-44571 SH.1 A916005A</u>
29. Venting, Loading and Discharge Valves	
30 Safety Relief Devices MIDLAND	<u>A-J+za</u>
31. Heater Systems	NONE A916005A
32 Gaging Devices MIDLAND	
33. Bottom Outlet Valve	NONE A896059A
34 JACKET ANCHOR	D-46344 A896059A D-243786 A916005A
35 MANWAY COVER	D-343922 A916005A
36 CALCULATIONS	APPLICATION BY SANDY L. MCQUEEN
REVISIONS:	t markle that the loregoing conforms to all applicable DOT
	A A B requirements including Specifications, regulations,
	Rules of Interchange and the PGF Railfoad Safety Appliance
	Standards
	SIGNATURE STATUS SIGNATURE SIGNATURE SIGNATURE STATUS SIGNATURE S
	TILL
	2/2/9- Secretary
APPROVAL AAR Tank Car Committee Date Approved	Signature of behalf of Tank Car Committee
	description and to all applicable DOT and
CERTIFICATE OF The cars enumerated below conform CONSTRUCTION: AAR requirements, including Specific	to the above approved description and to the DOT Railroad sations. Regulations, Rules of Interchange and the DOT Railroad
Color Appliance Standards CODV 01	This Certificate in Construction with the test
others required by 49 CFR Part 179 5	before these cars are placed in service.
	Date 6-19-92
Initials and Car Numbers:	B)
GATX	Title Director Quality assurance
Free AAR 12 Revised 10-17-86	Page 1 of 2

B.O. <u>11607</u>

1. Sec. - 1.

Form AAR 4-2 Revised 10-17-86

AAR NO_F916110 Applicant's No. 9168 Date 12-30-91

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION - SUPPLEMENTAL NOTES

GENERAL ARRANGEMENT - D-40418 REVISION D

DRAWING D-40418 REVISION D IS THE SAME AS D-40418 REVISION B EXCEPT THAT THE TOP PLATFORM HANDRAIL SAFETY CHAIN HAS BEEN DELETED AND AIRBRAKE NOTE 8 HAS BEEN REVISED TO REFLECT ABDW STABILIZED, ABDX OR DB60 EQUIPMENT IN LIEU OF ABDW.

TANK ARRANGEMENT - D-42540 SH.1 AND SH.2, REVISION A

DRAWINGS D-42540 SHEETS 1 AND 2, REVISION A ARE THE SAME AS D-42540 SHEETS 1 AND 2 EXCEPT THAT NOTES REQUIRING LIQUID PENETRANT OR MAGNETIC PARTICLE EXAMINATION OF FRONT SILL PAD AND REINFORCING BAR WELDS HAVE BEEN ADDED TO DRAWINGS.

FITTINGS ARRANGEMENT - D-44638 SHEET 1 AND SHEET 2

DRAWINGS D-44638 SHEETS 1 AND 2 ARE THE SAME AS D-44571 SHEETS 1 AND 2 EXCEPT THAT ELASTOMER SEALS AND O-RING IN VALVES AND FITTINGS HAVE BEEN CHANGED FROM EPDM MATERIAL TO EPR MATERIAL.

	APPLICATION BY <u>SANDY L. MCQUEEN</u> I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regula- tions, Rules of Interchange and the DOT Railroad Safety Appliance Standards. SIGNATURE
APPROVAL AAR Tank Car Committee	
	Date Approved 2/1/92 (Signature) on behalf of Tank Car Committee
Form AAR 421 Revised 10-17-86	Page <u>2</u> of <u>2</u>

Form AAR 4-2.1 Revised 10-17-86

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