



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

GROUP	F
EXHIBIT	
18	

Agency / Organization

GATX Corporation

Title

**AAR Pressure Relief Device
Approvals, February 22, 2023.**



GATX Corporation
Rail North America
233 S. Wacker Drive
Chicago, IL 60606-7147

Peter R. Manyek
Sr. Manager Design Engineering

Tel: [REDACTED]
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April 24, 2023

Subject: NTSB Investigation RRD23MR005
02-03-23 East Palestine, Ohio, Derailment
GATX095098 Safety Valve Approval Information

The following is the safety valve approval information:

1. MIDLAND_AAR PRD132003 Previous 4-7 Approval
2. MIDLAND_AAR PRD232101 Latest 4-7 Approval



APPLICATION FOR RENEWAL OF APPROVAL FOR VALVES AND FITTINGS

1. AAR APPROVAL No. PRD132003
 2. Date of Application 2/12/13
 3. Previous AAR Approval PRD022020

4. Applicant: Midland Manufacturing
 5. Address: 7733 Gross Point Road; Skokie, IL 60077
 6. Drawing No. See Attached 7. Latest rev. See Attached 8. Date of latest rev. See Attached
 9. Description of device: Pressure Relief Valve 10. Device ID No. A-3400 / A-3404 Series

CERTIFICATION: The subject device is **unchanged** from the previous approval, and conforms with the latest revision of AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

11. By: _____ Title: _____

If device is **changed** since latest approval, fill in the following blanks

12. Reference Previous Drawing	New Drawing	If on Service Trial
No. <u>See</u> Rev. <u> </u> Date <u> </u>	No. <u>See</u> Rev. <u> </u> Date <u> </u>	S.T. No. <u> </u>
No. <u>Attached</u> Rev. <u> </u> Date <u> </u>	No. <u>Attached</u> Rev. <u> </u> Date <u> </u>	S.T. No. <u> </u>
No. <u> </u> Rev. <u> </u> Date <u> </u>	No. <u> </u> Rev. <u> </u> Date <u> </u>	S.T. No. <u> </u>

13. New drawing supersedes previous one or does not obsolete it

CHANGES

REASONS FOR CHANGES

14. a. <u>See Attached</u>	a. <u>See Attached</u>
b. <u> </u>	b. <u> </u>
c. <u> </u>	c. <u> </u>
d. <u> </u>	d. <u> </u>

(if needed use supplemental sheet)

15. Normal operational effect of changes of device: None

16. Drawing submitted with this application: See Attached

CERTIFICATION: The above data is correct and conforms with AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

17. By: [Redacted] Title: Product Engineer

APPROVAL AAR Tank Car Committee:

Date Approved: JUN 04 2013 [Redacted]
 (Signature) on behalf of Committee

**APPLICATION FOR RENEWAL OF APPROVAL FOR PRESSURE RELIEF
DEVICES, VALVES, CLOSURES, AND FITTINGS**

1. AAR APPROVAL No. PRD232101
2. Date of Application _____
3. Previous AAR Approval _____
4. Applicant: _____
5. Address: _____
6. Drawing No. _____ 7. Latest rev. _____ 8. Date of latest rev. _____
9. Description of device: _____ 10. Device ID No. _____

CERTIFICATION: The subject device is **unchanged** from the previous approval, and conforms with the latest revision of AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

11. By: _____ Title: _____

If device is **changed** since latest approval, fill in the following blanks

12. Reference Previous Drawing	New Drawing	If on Service Trial
No. _____ Rev. _____ Date _____	No. _____ Rev. _____ Date _____	S.T. No. _____
No. _____ Rev. _____ Date _____	No. _____ Rev. _____ Date _____	S.T. No. _____
No. _____ Rev. _____ Date _____	No. _____ Rev. _____ Date _____	S.T. No. _____

13. New drawing supersedes previous one or does not obsolete it

CHANGES

REASONS FOR CHANGES

14. a. _____ a. _____
b. _____ b. _____
c. _____ c. _____
d. _____ d. _____

(if needed use supplemental sheet)

15. Normal operational effect of changes of device: _____

16. Drawing submitted with this application: _____

CERTIFICATION: The above data is correct and conforms with AAR Specifications for Tank Cars, Appendix A. The device conforms with drawing listed above.

17. By: _____ Title: _____

APPROVAL AAR Tank Car Committee:

Date Approved: 3/3/2023

(Signature) on behalf of Committee

Supplemental Information for Form 4-7 (page 2)

6. Drawing No.	7. Latest Rev.	8. Date of Latest Rev.	9. Description of Device
A-3400/A-3404	N	6/6/2018	PRESSURE RELIEF VALVE
A-3480-TF	D	6/6/2018	PRESSURE RELIEF VALVE
A-3400-SSR	J	6/6/2018	PRESSURE RELIEF VALVE
A-3400-SSRS	B	6/6/2018	PRESSURE RELIEF VALVE
A-34145-W	A	6/6/2018	PRESSURE RELIEF VALVE

12. Reference Previous Drawing			New Drawing					
No.	Rev.	Date.	No.	Rev.	Date.	14. Changes	Reason for Changes	Comments
A-3400/A-3404	K	1/31/2013	A-3400/A-3404	N	6/6/2018	Additional of supplemental nameplate. Upgraded seal wire material from lead to stainless steel for food grade models.	Product improvement	
A-3480-TF	C	1/31/2013	A-3480-TF	D	6/6/2018	Additional of supplemental nameplate. Upgraded seal wire material from lead to stainless steel for food grade models.	Product improvement	Variation of A-3400 Series valve (A-3480) to include Teflon (TFE) coated body and top guide
A-3400-SSR	H	1/31/2013	A-3400-SSR	J	6/6/2018	Additional of supplemental nameplate. Upgraded seal wire material from lead to stainless steel for food grade models.	Product improvement	Variation of A-3400 Series valves to include stainless steel retainer
A-3400-SSRS	A	1/31/2013	A-3400-SSRS	B	6/6/2018	Additional of supplemental nameplate. Upgraded seal wire material from lead to stainless steel for food grade models.	Product improvement	Variation of A-3400 Series valves to include stainless steel retainer and spring
			A-34145-W	A	6/6/2018			Variation of A-3400 series with dust cap

16. Drawings submitted for this application:

A-3400/A-3404
A-3480-TF
A-3400-SSR
A-3400-SSRS
A-34145-W

CHP: 2/22/23