Verso AAR Load Trial

July 2019

VERSO. 100th ANNIVERSARY
Celebrating a Century in Specialty Papers

Chris Maki

Background

- 28 years with Verso all at the Quinnesec mill in the PS & D department.
- Currently the Transportation Coordinator which I have held for 3 years.

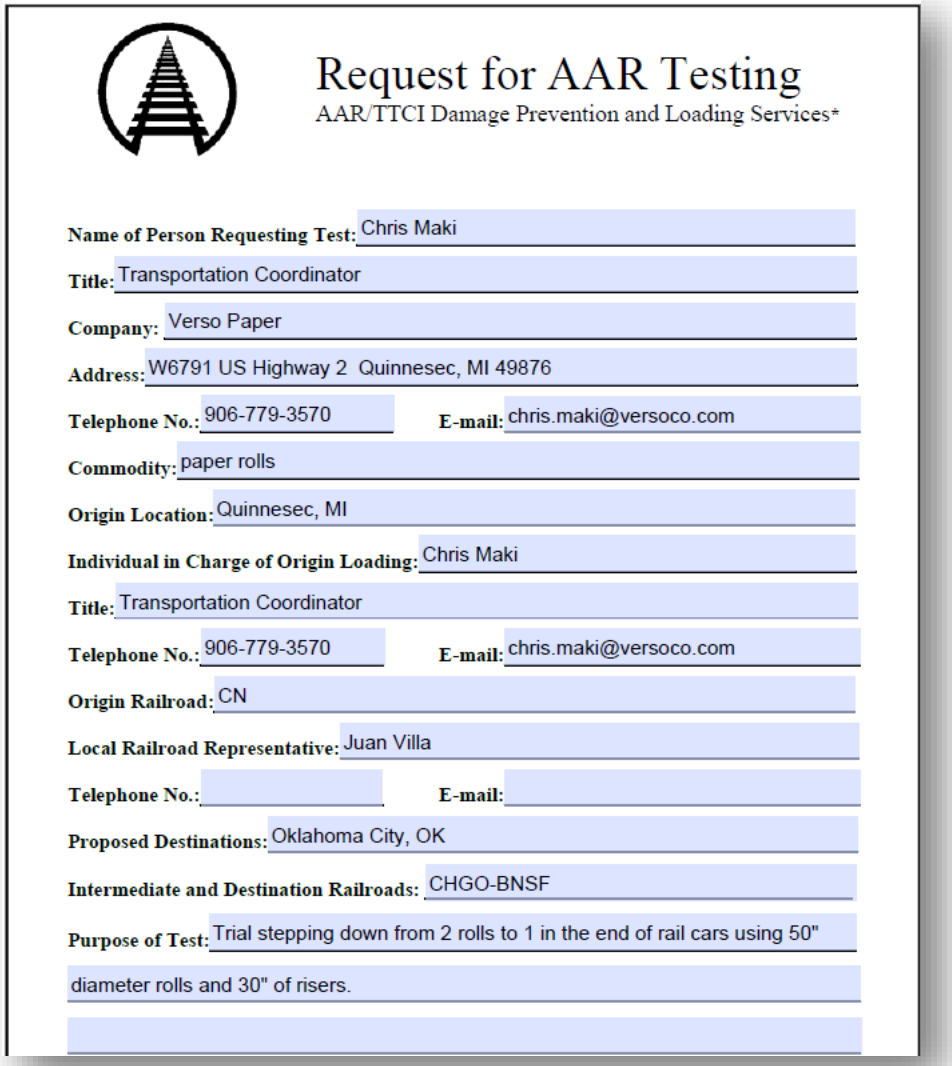
Personal

- Life long “Yooper”
- Enjoy the outdoors and the four seasons we have in the UP.

Found we couldn’t maximize the weight in cars with changes to riser rules

IDENTIFY LOADING NEED

30 Inch Risers to Block Incomplete Layers



Request for AAR Testing

AAR/TTCI Damage Prevention and Loading Services*

Name of Person Requesting Test: Chris Maki

Title: Transportation Coordinator

Company: Verso Paper

Address: W6791 US Highway 2 Quinnesec, MI 49876

Telephone No.: 906-779-3570 **E-mail:** chris.maki@versoco.com

Commodity: paper rolls

Origin Location: Quinnesec, MI

Individual in Charge of Origin Loading: Chris Maki

Title: Transportation Coordinator

Telephone No.: 906-779-3570 **E-mail:** chris.maki@versoco.com

Origin Railroad: CN

Local Railroad Representative: Juan Villa

Telephone No.: **E-mail:**

Proposed Destinations: Oklahoma City, OK

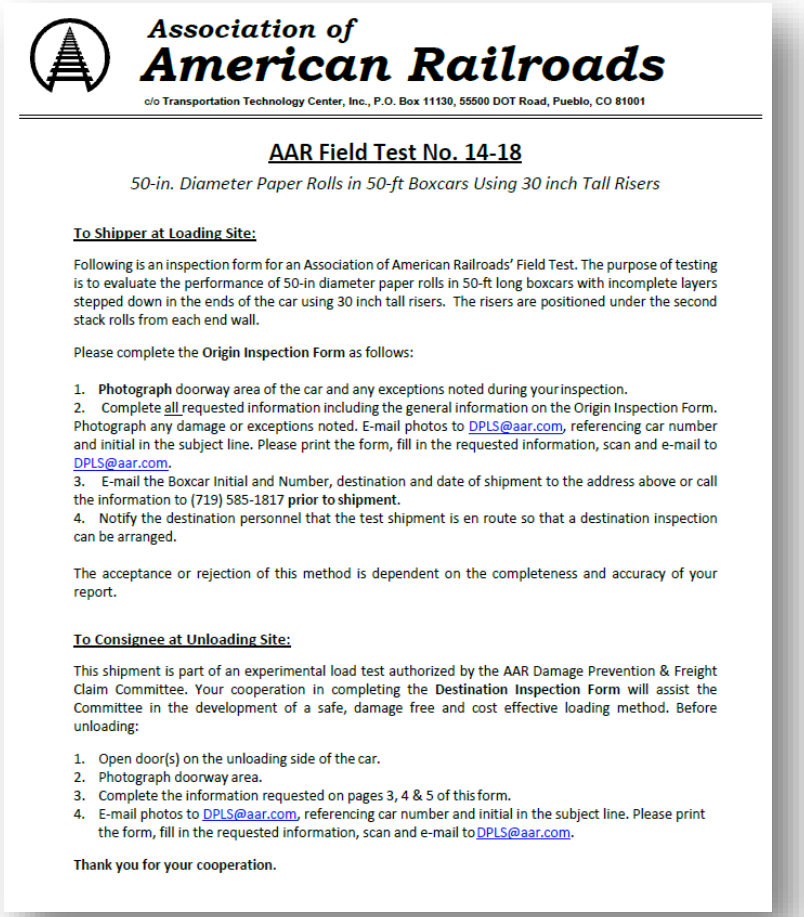
Intermediate and Destination Railroads: CHGO-BNSF

Purpose of Test: Trial stepping down from 2 rolls to 1 in the end of rail cars using 50" diameter rolls and 30" of risers.

- Added freight cost for Verso due to not being able to maximize weight.
- More time consuming for loaders due to loading multiple cars

Recognized a Loading Need

Accepted to Trial by Committee



Association of
American Railroads

c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

AAR Field Test No. 14-18

50-in. Diameter Paper Rolls in 50-ft Boxcars Using 30 inch Tall Risers

To Shipper at Loading Site:

Following is an inspection form for an Association of American Railroads' Field Test. The purpose of testing is to evaluate the performance of 50-in diameter paper rolls in 50-ft long boxcars with incomplete layers stepped down in the ends of the car using 30 inch tall risers. The risers are positioned under the second stack rolls from each end wall.

Please complete the **Origin Inspection Form** as follows:

1. **Photograph** doorway area of the car and any exceptions noted during your inspection.
2. Complete all requested information including the general information on the Origin Inspection Form. Photograph any damage or exceptions noted. E-mail photos to DPLS@aar.com, referencing car number and initial in the subject line. Please print the form, fill in the requested information, scan and e-mail to DPLS@aar.com.
3. E-mail the Boxcar Initial and Number, destination and date of shipment to the address above or call the information to (719) 585-1817 **prior to shipment**.
4. Notify the destination personnel that the test shipment is en route so that a destination inspection can be arranged.

The acceptance or rejection of this method is dependent on the completeness and accuracy of your report.

To Consignee at Unloading Site:

This shipment is part of an experimental load test authorized by the AAR Damage Prevention & Freight Claim Committee. Your cooperation in completing the **Destination Inspection Form** will assist the Committee in the development of a safe, damage free and cost effective loading method. Before unloading:

1. Open door(s) on the unloading side of the car.
2. Photograph doorway area.
3. Complete the information requested on pages 3, 4 & 5 of this form.
4. E-mail photos to DPLS@aar.com, referencing car number and initial in the subject line. Please print the form, fill in the requested information, scan and e-mail to DPLS@aar.com.

Thank you for your cooperation.

- Worked with crews to document each shipment as it was loaded including photos and measurements.
- Worked with consignee to have access to the facility to inspect cars and have the cars spotted when I was able to travel to the facility.

Trial Forms

Origin

Association of
American Railroads
c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

FL 14-18: Origin Inspection Report

INSTRUCTIONS:

Label the ends of the car in the diagram, either A end or B end. The B end of the car is where the brake wheel is located. After loading is complete:

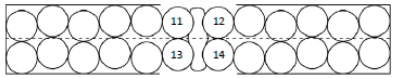
1.) Measure and record the distance between the roll loaded in the ends of the car and the car end walls.
2.) Measure and record the distance between rolls 11 and 12 and between 13 and 14.
3.) Measure and record the distances between roll 11 and the door. Do the same for rolls 12, 13 and 14.
4.) Photograph airbags and dunnage from the doorway and from the top (if possible).
5.) Record the type and size of airbags and void fillers used and record the pressure (psi) of the airbags.
6.) Measure and record the location of additional dunnage used to fill voids.

7.) Submit the completed form and photos to DPLS@aar.com, referencing car number and initial in the subject line.

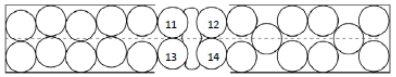
3.) Measure to Door	
Roll 11	
Roll 12	
Roll 13	
Roll 14	

5).	Type & Size	Void Filled (in):	Pressure (psi)
Top Bag			
Bottom Bag			

Select Load Pattern: ☐ 8.2.4.2



☐ 8.2.4.3



1.) End Wall Voids	
Left	Right

2.) Measure Voids	
11 and 12	
13 and 14	

1.) End Wall Voids	
Left	Right

Destination

Association of
American Railroads
c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

FL 14-18: Destination Inspection Report

Please complete all information fields on the load diagram.

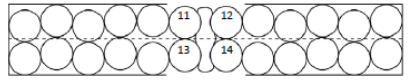
Label the ends of the car in the diagram, either A end or B end. The B end of the car is where the brake wheel is located.

1.) Measure and record the distance between the roll loaded in the ends of the car and the car end walls.
2.) Measure and record the distance between rolls 11 and 12 and between 13 and 14.
3.) Measure and record the distances between roll 11 and the door. Do the same for rolls 12, 13 and 14.
4.) Photograph airbags and dunnage from the doorway and from the top (if possible).
5.) Record the type and size of airbags and void fillers used and the pressure (psi) of the airbags.
6.) Note the condition of additional dunnage used to fill voids.
7.) Note any load / roll exceptions on the following page.
8.) Submit the completed form and photos to DPLS@aar.com, referencing car number and initial in the subject line.

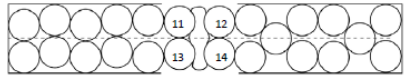
3.) Measure to Door	
Roll 11	
Roll 12	
Roll 13	
Roll 14	

5).	Type & Size	Void Filled (in):	Pressure (psi)
Top Bag			
Bottom Bag			

Select Load Pattern: ☐ 8.2.4.2



☐ 8.2.4.3



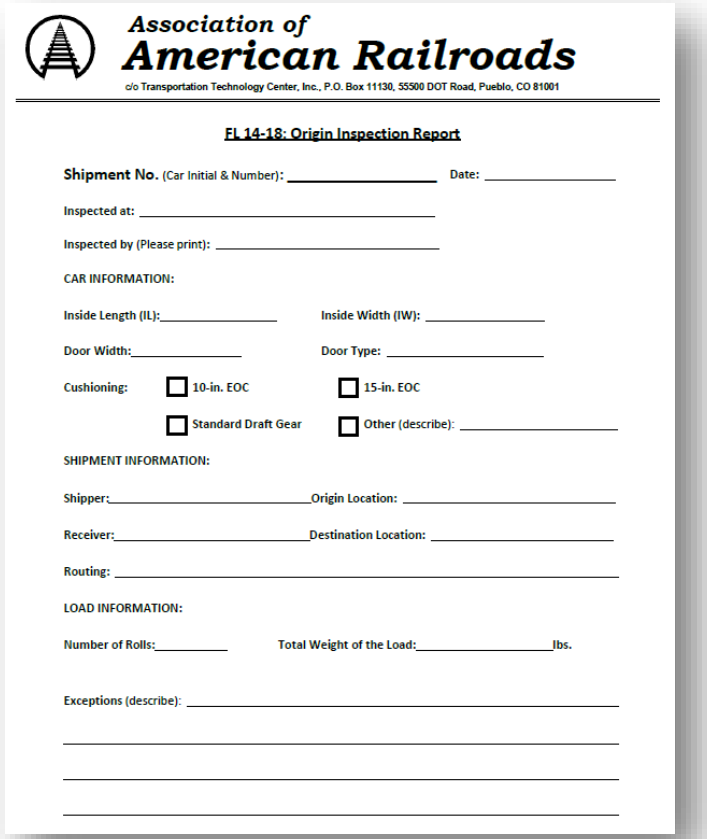
1.) End Wall Voids	
Left	Right

2.) Measure Voids	
11 and 12	
13 and 14	

1.) End Wall Voids	
Left	Right

Trial Forms

Origin



Association of
American Railroads
c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

FL 14-18: Origin Inspection Report

Shipment No. (Car Initial & Number): _____ Date: _____

Inspected at: _____

Inspected by (Please print): _____

CAR INFORMATION:

Inside Length (IL):_____ Inside Width (IW): _____

Door Width:_____ Door Type: _____

Cushioning: ☐ 10-in. EOC ☐ 15-in. EOC

☐ Standard Draft Gear ☐ Other (describe): _____

SHIPMENT INFORMATION:

Shipper:_____Origin Location: _____

Receiver:_____Destination Location: _____

Routing: _____

LOAD INFORMATION:

Number of Rolls:_____ Total Weight of the Load:_____lbs.

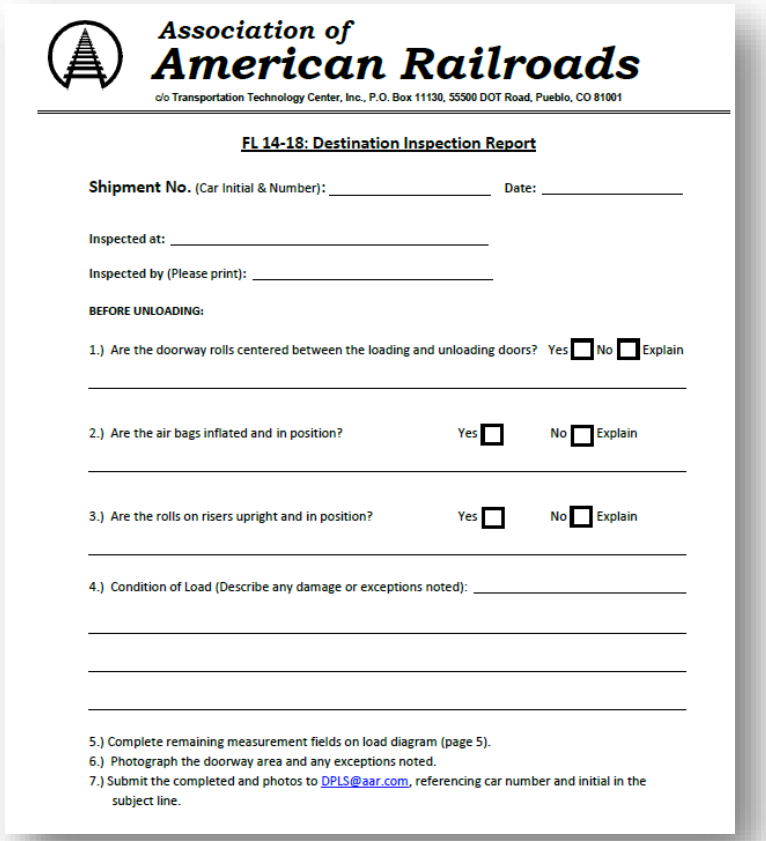
Exceptions (describe): _____

_____

_____

_____

Destination



Association of
American Railroads
c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

FL 14-18: Destination Inspection Report

Shipment No. (Car Initial & Number): _____ Date: _____

Inspected at: _____

Inspected by (Please print): _____

BEFORE UNLOADING:

1.) Are the doorway rolls centered between the loading and unloading doors? Yes ☐ No ☐ Explain

_____

2.) Are the air bags inflated and in position? Yes ☐ No ☐ Explain

_____

3.) Are the rolls on risers upright and in position? Yes ☐ No ☐ Explain

_____

4.) Condition of Load (Describe any damage or exceptions noted): _____

_____

_____

_____

5.) Complete remaining measurement fields on load diagram (page 5).
6.) Photograph the doorway area and any exceptions noted.
7.) Submit the completed and photos to DPLS@aar.com, referencing car number and initial in the subject line.

At Origin

At Origin

A end

B end

At Destination

At Destination

A end

B end

At Destination

Results

Origin

Association of American Railroads
c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

FL 14-18: Origin Inspection Report

70993 150
BNSF 728804

INSTRUCTIONS:

Label the ends of the car in the diagram, either A end or B end. The B end of the car is where the brake wheel is located. After loading is complete:

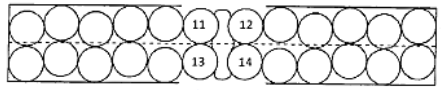
1.) Measure and record the distance between the roll loaded in the ends of the car and the car end walls.
2.) Measure and record the distance between rolls 11 and 12 and between 13 and 14.
3.) Measure and record the distances between roll 11 and the door. Do the same for rolls 12, 13 and 14.
4.) Photograph airbags and dunnage from the doorway and from the top (if possible).
5.) Record the type and size of airbags and void fillers used and record the pressure (psi) of the airbags. Mark with an 'X' on the diagram all side and end wall fillers.
6.) Measure and record the location of additional dunnage used to fill voids.

7.) Submit the completed form and photos to DPLS@aar.com, referencing car number and initial in the subject line.

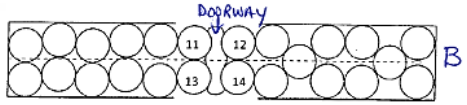
3.) Measure to Door	
Roll 11	8"
Roll 12	8"
Roll 13	6½"
Roll 14	6¼"

5).	Type & Size	Void Filled (in):	Pressure (psi)
Top Bag	LS 48"x108"	-0-	9.21"
Bottom Bag	LS 48"x108"	-0-	9.18"

Select Load Pattern: ☐ 8.2.4.2



☒ 8.2.4.3 A



B

1.) End Wall Voids	
Left	Right
-0-	-0-

1.5" wall liner used

2.) Measure Voids	
11 and 12	6"
13 and 14	9¼"

1.) End Wall Voids	
Left	Right
-0-	-0-

1.5" wall liner used

Destination

Association of American Railroads
c/o Transportation Technology Center, Inc., P.O. Box 11130, 55500 DOT Road, Pueblo, CO 81001

FL 14-18: Destination Inspection Report

Please complete all information fields on the load diagram.

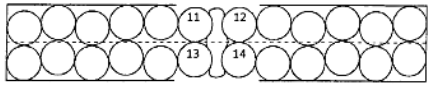
Label the ends of the car in the diagram, either A end or B end. The B end of the car is where the brake wheel is located.

1.) Measure and record the distance between the roll loaded in the ends of the car and the car end walls.
2.) Measure and record the distance between rolls 11 and 12 and between 13 and 14.
3.) Measure and record the distances between roll 11 and the door. Do the same for rolls 12, 13 and 14.
4.) Photograph airbags and dunnage from the doorway and from the top (if possible).
5.) Record the type and size of airbags and void fillers used and the pressure (psi) of the airbags.
6.) Note the condition of additional dunnage used to fill voids.
7.) Note any load / roll exceptions on the following page.
8.) Submit the completed form and photos to DPLS@aar.com, referencing car number and initial in the subject line.

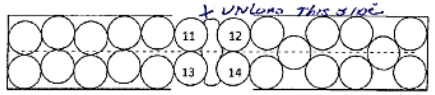
3.) Measure to Door	
Roll 11	8
Roll 12	8
Roll 13	6
Roll 14	6¼

5).	Type & Size	Void Filled (in):	Pressure (psi)
Top Bag	LS 48x108	Ø	4.9
Bottom Bag	LS 48x108	Ø	1

Select Load Pattern: ☐ 8.2.4.2



☒ 8.2.4.3



1.) End Wall Voids	
Left	Right
1.5	1.5

WALL LINER

2.) Measure Voids	
11 and 12	10.5"
13 and 14	13"

1.) End Wall Voids	
Left	Right
1.5	1.5

WALL LINER