

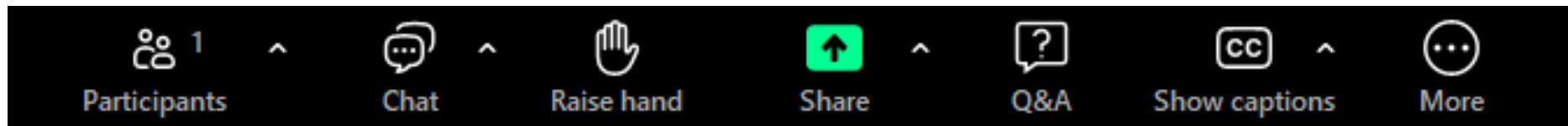
Introduction to TCID: Tank Car Integrated Database

Presented by: Tracy Brewer

General Announcements



- Webinar Reminders
 - Attendees will be muted to reduce background noise.
 - Submit any questions you have via the Q&A box.
 - The presentation is expected to last 40 minutes.
- Please complete the short survey at the end of presentation.



Webinar Agenda



- TCID Set Up
 - SSO User Roles and Permissions
 - User and Company Set Up
- TCID Application
 - Inspections
 - Batch Upload
 - Help & Documentation

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Tank Car Integrated Database



- The Tank Car Integrated Database (TCID) is an application that hosts tank car inspection results, repairs and modifications for tank car owners to comply with all AAR Tank Car Committee reporting requirements
 - It was designed to consolidate the information on the AAR forms R-1, R-2, and Stub Sill inspections
 - TCID provides users the ability to create a new inspection, implement a batch upload, delete, edit, submit, or download an open inspection
 - It also uses inspection templates to accurately report cracks found in the Stub Sill attachment welds
 - TCID also allows users to run reports for their company

TCID User and Company Set Up



User SSO Roles

- **TCID AAR Member**
 - Tank Car Inspection AAR Member that can access web application across all company marks
 - This permission allows the user to view all submitted data, regardless of company or facility submission, but does not allow inputting data
 - This role is only for internal Railinc and AAR use
- **TCID Company Administrator**
 - This role is responsible for granting permissions
 - Company specific administrator granting users access to the web application on behalf of their company
 - This permission does not allow the user to input or view any data
 - This permission is typically included with Tank Car Owner Delegate permissions
- **TCID Owner Delegate**
 - Company specific Car Owner or Delegate user to access web application
 - This permission allows the user to input data and view all their company submissions
- **TCID Facility User**
 - Facility specific user to access the web application
 - This permission allows the user to input data and view their own submissions

TCID Application

Launch Pad



Home

My Applications

FindUs.Rail

Single Sign On System

Tank Car Integrated Database (TCID)

TCID Application



Home

- Logging in
- Access to multiple companies with a Single SSO ID

A screenshot of a web application interface showing a 'User Mark Selection' dropdown menu. The title 'User Mark Selection' is in red. Below it is a text input field with the placeholder 'Select a Mark' and a red upward-pointing triangle on the right. The dropdown menu is open, showing three options: 'AARE' (highlighted with a grey background), 'AARX', and 'RAIL'.

User Mark Selection

Select a Mark ▲

- AARE
- AARX
- RAIL

TCID Application



Tank Car Integrated Database

Launch Pad ▾ Sign Out

Home Inspections ▾ Reports Help

Tank Car Integrated Database

Manage information on tank cars, specifically, inspection results, repairs and modifications. Car owners can use submissions to this system to comply with AAR Tank Car Committee requirements to report such information.

The system allows:

- A** AAR to monitor the tank car fleet for emerging problems
- B** Car owners to comply with 49 CFR Part 180 requirements to monitor their fleets' conditions and modify inspection programs accordingly
- C** Car owners to transfer car inspection history to buyers when selling cars

Resources

- AAR TCID Form
- TCID User Guide
- TCID Data Spec Manual
- Tank Car Templates

Inspection overview for RAIL

105

Total

Open

Submitted

Re-open

1

102

2

1
Open

102
Submitted

2
Re-open

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TCID Screen Theme



Tank Car Integrated Database

BSAXB06 : RAILLaunch PadSign Out

HomeInspectionsReportsHelp

Tank Car Integrated Database

Manage information on tank cars, specifically, inspection results, repairs and modifications. Car owners can use submissions to this system to comply with AAR Tank Car Committee requirements to report such information.

The system allows:

- AAR to monitor the tank car fleet for emerging problems
- Car owners to comply with 49 CFR Part 180 requirements to monitor their fleets' conditions and modify inspection programs accordingly
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Resources

AAR TCID Form

TCID User Guide

TCID Data Spec Manual

Tank Car Templates

Inspection overview for RAIL

105

Total

Open

Submitted

Re-open

1

102

2

1

Open

102

Submitted

2

Re-open

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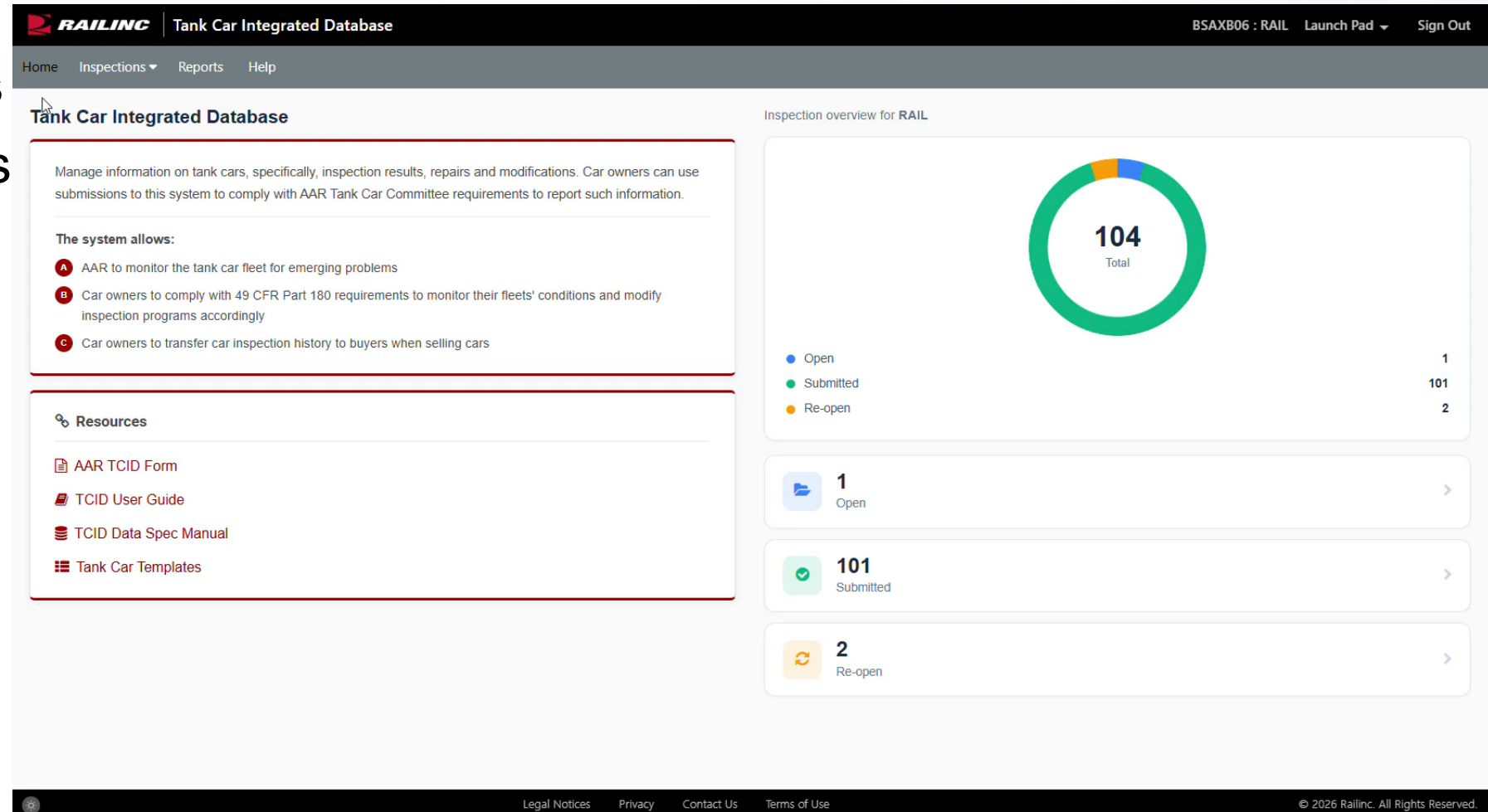
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TCID Inspections Tab



Inspections >

- New Inspections
- View Inspections
- Batch Upload



TCID New Inspection



Inspections > New Inspection

- Enter Required Fields
 - Selecting the Next button validates data
 - If all data is valid the bottom three sections become visible

The screenshot shows the 'Create Inspection' form within the RAILINC Tank Car Integrated Database. The form is titled 'M-1002 Report of Alterations, Conversions, Welded Repairs, and Stub Sill Inspections'. It features a navigation bar at the top with 'Home', 'Inspections', 'Reports', and 'Help'. The form itself is divided into two main columns of input fields. The left column includes fields for 'Equipment Initial', 'Station Stencil', 'Shop Location (City)', 'Built Date', 'Car Jacketed', 'Reserved 2 (design specific)', 'Builder', 'Stub Sill Design Variation', 'Constructed Car Spec', 'Nature of Damage', 'Stub Sill Deformation' (with checkboxes for 'A End' and 'B End'), 'Tank Containment Failure', and 'Facility Rep. Name'. The right column includes fields for 'Equipment Number', 'Stencil Class', 'Shop Location (State)', 'Inspection Date', 'Reserved 1 (design specific)', 'Original AAR Cert. of Construction No.', 'Stub Sill Design (as inspected)', 'Miles (actual cumulative miles in thousands of miles)', 'Car Spec. After Modification', 'Railroad Responsibility', 'Year of Last Tank Qualification', 'No. of Compartments', and 'Submitted By'. A red arrow points to a 'Next >' button on the right side of the form. A footer at the bottom contains links for 'Legal Notices', 'Privacy', 'Contact Us', and 'Terms of Use', along with a copyright notice for 2026 Railinc.

TCID New Inspection



Inspections > New Inspection

- Station Stencil
 - Selecting the Station Stencil field provides a listing of all registered station stencil codes

A screenshot of the RAILINC Tank Car Integrated Database 'Create Inspection' form. The form is titled 'Create Inspection' and includes a sub-header 'M-1002 Report of Alterations, Conversions, Welded Repairs, and Stub Sill Inspections'. It features a navigation bar with 'Home', 'Inspections', 'Reports', and 'Help'. The form contains various input fields for inspection details, including 'Equipment Initial', 'Equipment Number', 'Stencil Class', 'Shop Location (City)', 'Shop Location (State)', 'Inspection Date', 'Reserved 1 (design specific)', 'Original AAR Cert. of Construction No.', 'Stub Sill Design (as inspected)', 'Miles (actual cumulative miles in thousands of miles)', 'Car Spec. After Modification', 'Railroad Responsibility', and 'Year of Last Tank Qualification'. A dropdown menu for 'Station Stencil' is open, showing a list of registered station stencil codes: AAST, ABXCL, ACAP, ACBQ, ACPTX, ACPW, ACWL, ADM, ADMI, AEXBM, AGCST, AIEI, AIKK, ALRC, ANDR, ANKM, ANMI, ANMO, and APCI. The 'Station Stencil' field is highlighted with a red box. The form also includes a 'Next' button and a footer with 'Legal Notices', 'Privacy', 'Contact Us', 'Terms of Use', and '© 2026 Railinc. All Rights Reserved.'

TCID New Inspection



Inspections > New Inspection

- Enter required fields
 - Selecting the Next button validates data
 - If all data is valid the bottom 3 sections become visible

Create Inspection

M-1002 Report of Alterations, Conversions, Welded Repairs, and Stub Sill Inspections

Inspection/Report Type *

☐ Tank Qualification ☐ Stub Sill Inspection ☐ Alteration ☐ Conversion ☒ Welded Repair ☐ Other

Equipment Initial *

AARX

Equipment Number *

000008880

Station Stencil *

AAST

Stencil Class *

103ALW

Shop Location (City) *

Cary

Shop Location (State) *

North Carolina

Built Date *

3/1/2026

Inspection Date *

5/11/2026

Car Jacketed *

Yes

Reserved 1 (design specific)

Reserved 2 (design specific)

Original AAR Cert. of Construction No. *

ABS123

Builder *

TETX - Texana Tank

Stub Sill Design (as inspected) *

CNC002

Stub Sill Design Variation *

N/A

Miles (actual cumulative miles in thousands of miles) *

10

Constructed Car Spec. *

105A100ALW

Car Spec. After Modification

105A100ALW

Nature of Damage *

N/A

Railroad Responsibility *

No

Stub Sill Deformation ☒ A End ☐ B End

Year of Last Tank Qualification *

2018

Tank Containment Failure

No

No. of Compartments *

1

Facility Rep. Name *

TCID

Submitted By *

Webinar

Next >

Next >

TCID New Inspection



Inspections > New Inspection

- 3 Sections
 - Drawing Inspection
 - Weld Inspection
 - Shell/Sill Damage
- Actions Available
 - Save Inspection
 - Submit Inspection

Nature of Damage *

Stub Sill Deformation ☒ A End ☐ B End

Tank Containment Failure

Railroad Responsibility *

Year of Last Tank Qualification *

No. of Compartments *

[+ Add Drawing Inspection](#)

Alterations and Conversions

Compartment No.	Change Category	Drawing No.	AAR Approval Reference No.	Comment	Actions
No drawings found					

[+ Add Weld Inspection](#)

Weld Inspection Results

Compartment No.	Inspection Results	Weld Code	Weld Location	Inspection Technique	No. of Defects	Max Defect Length (in.)	Defect Orientation Code 1	Defect Orientation Code 2	Defect Orientation Code 3	How Repaired (Weld)	Actions
No Inspection Found											

[+ Add Shell/Sill Damage](#)

Shell/Sill Inspection Results

Compartment No.	Failed Component	Failure Type	Failure Cause	How Repaired (Shell)	Defect Length (in.)	Defect Area	Repair Location	Inspection Method	Actions
No Inspection Found									

Facility Rep. Name *

Submitted By *

Close [Save Inspection](#) [Submit Inspection](#)

TCID New Inspection



Inspections > New Inspection

- 3 sections
 - Drawing Inspection
 - Weld Inspection
 - Shell/Sill Damage
- Actions available
 - Save Inspection
 - Submit Inspection

Add Shell/Sill Damage

Failed Component *
Select one

Compartment No. *
Select One

Failure Type *
Select one

Failure Cause *
Select one

How Repaired *
Select one

Defect Length (inches) *
Zero '0' indicates an omitted value

Defect Area *
Zero '0' indicates an omitted value

Repair Location *
Select one

Inspection Technique *
Select one

× Add Shell/Sill Damage ×

Failed Component *
Tank Shell Exterior

Compartment No. *
1

Failure Type *
Blister

Failure Cause *
Corrosion

How Repaired *
Grinding and Blending with no We

Defect Length (inches) *
5

Defect Area *
5

Repair Location *
B End

Inspection Technique *
[OT] Other

Save Cancel

Save Cancel

+ Add Shell/Sill Damage

Shell/Sill Inspection Results

Compartment No.	Failed Component	Failure Type	Failure Cause	How Repaired (Shell)	Defect Length (in.)	Defect Area	Repair Location	Inspection Method	Actions
1	Tank Shell Exterior	Blister	Corrosion	Grinding and Blending with no Weld Buildup	5	5	B End	[OT] Other	

TCID New Inspection

Inspections >

New Inspection

- Save Inspection
- Submit Inspection



Create Inspection

M-1002 Report of Alterations, Conversions, Welded Repairs, and Stub Sill Inspections * denotes a required field

Inspection/Report type ☐ Tank Qualification ☐ Stub Sill Inspection ☐ Alteration ☐ Conversion ☒ Welded Repair ☐ Other

Equipment Model *	AARX	Equipment Number *	0000008880
Station Street *	AAST	Street Class *	103ALW
Shop Location (City) *	Cary	Shop Location (State) *	North Carolina
Built Date *	3/1/2026	Inspection Date *	5/11/2026
Car Jacketed *	Yes	Reserved 1 (design specific)	
Reserved 2 (design specific)		Original AAR Cert. of Construction No. *	ABS123
Builder *	TETX - Texoma Tank	Stub Sill Design (see inspection) *	CNC002
Stub Sill Design Variation *	N/A	Mile (actual cumulative miles in thousands of miles) *	10
Constructed Car Spec. *	105A100ALW	Car Spec. After Modification	105A100ALW
Nature of Damage *	N/A	Railroad Responsibility *	No
Stub Sill Deformation ☒ A End ☐ B End		Year of Last Tank Qualification *	2018
Tank Containment Failure	No	No. of Compartments *	1

+ Add Drawing Inspection

Alterations and Conversions	Compartment No.	Change Category	Drawing No.	AAR Approval Reference No.	Comment	Action
	No drawings found					

+ Add Weld Inspection

Weld Inspection Results	Compartment No.	Inspection Results	Weld Code	Weld Location	Inspection Technique	No. of Defects	Max Defect Length (in.)	Defect Orientation Code 1	Defect Orientation Code 2	Defect Orientation Code 3	How Reported (RWE)	Action
	No inspection found											

+ Add Shell/Stub Damage

Shell/Stub Inspection Results	Compartment No.	Failed Component	Failure Type	Failure Cause	How Reported (Shell)	Defect Length (in.)	Defect Area	Repair Location	Inspection Method	Action
	1	Tank Shell Exterior	Stitch	Corrosion	Grinding and blending with no Weld Buildup	5	5	B End	DOT Other	✕

Facility Rep. Name * TCID Submitted By * Webinar

Close Save Inspection Submit Inspection

TCID New Inspection



Inspections >
New Inspection

- Save Inspection

✓ Inspection has been successfully saved

- Submit Inspection

tankcar.railinc.com says

Are you sure you want to submit this inspection?

OK

Cancel



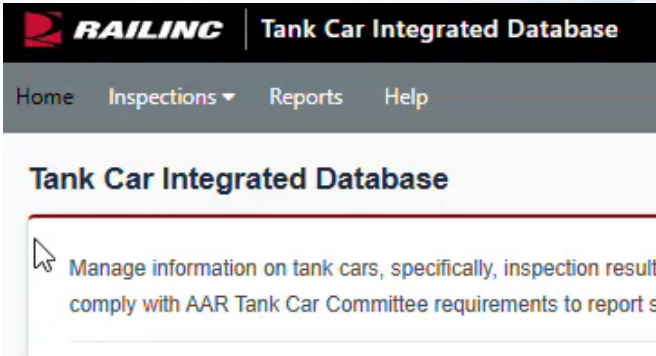
Inspection has been successfully
submitted

TCID Viewing Inspections



Actions

- Edit
- View
- Delete
- Unsubmit



View Inspections page

Inspections									
EIN	Equip Initial	Equip Number	Builder	Built Date	Inspection Date	Modified Date	Status	Actions	Report
0010810726	RAIL	0000000929	AB	03/03/2026	03/03/2026	03/11/2026 06:29:55 AM	Open	Edit Delete	
0010812897	RAIL	0000000531	TRIN	06/01/1989	02/02/2025	01/07/2026 03:44:16 PM	Re-open	Edit Delete	
0010812897	RAIL	0000000531	TRIN	06/01/1989	02/02/2025	01/07/2026 03:39:12 PM	Re-open	Edit Delete	
0010812897	RAIL	0000000531	TETX	03/01/2026	05/11/2026	05/11/2026 12:20:08 PM	Submitted	View Unsubmit	
0010793825	RAIL	0000790576	ACFX	09/01/2015	12/02/2020	05/08/2026 03:53:39 PM	Submitted	View Unsubmit	

TCID Viewing Inspections



- Filtering inspections
- View Inspections page where 'Builder' is filtered by 'ACFX'

Inspections									
EIN	Equip Initial	Equip Number	Builder	Built Date	Inspection Date	Modified Date	Status	Actions	Report
			ACFX						
0010793825	RAIL	0000790576	ACFX		12/02/2020	05/08/2026 03:53:39 PM	Submitted	View Unsubmit	
0010793490	RAIL	0000790255	ACFX		12/02/2020	04/29/2026 02:53:12 PM	Submitted	View Unsubmit	
0010793769	RAIL	0000790528	ACFX		12/02/2020	04/29/2026 02:52:59 PM	Submitted	View Unsubmit	
0010793657	RAIL	0000790422	ACFX		12/02/2020	04/29/2026 02:52:52 PM	Submitted	View Unsubmit	

TCID Editing Inspections



Inspections > View Inspections

- Edit/Delete Inspection
- Add Drawings

Edit Inspection

M-1002 Report of Alterations, Conversions, Welded Repairs, and Stub Sill Inspections

Inspection/Report Type *

☐ Tank Qualification ☒ Stub Sill Inspection ☐ Alteration ☐ Conversion ☐ Welded Repair ☐ Other

Equipment Initial *

RAIL

Station Shered *

AAST

Shop Location (City) *

Cary

Start Date *

3/3/2026

Car Jacketed *

Yes

Reserved 2 (design specific)

Builder *

AB - AMF BEAIRD

Stub Sill Design Variation *

Continuous

Constructed Car Spec. *

103

Nature of Damage *

N/A

Stub Sill Deformation ☐ A End ☐ B End

Tank Containment Failure

No

SIR *

0010810726

Equipment Number *

0000000929

Shedlet Class *

103

Shop Location (State) *

North Carolina

Inspection Date *

3/3/2026

Reserved 1 (design specific)

Original AAI Cert. of Construction No. *

65763

Stub Sill Design (as inspected) *

ACF100

Miles (actual cumulative miles in thousands of miles) *

100

Car Spec. After Modification

103

Railroad Responsibility *

Yes

Year of Last Tank Qualification *

2026

No. of Compartments *

1

Shedlet Mark Owner *

RAIL

+ Add Drawing Inspection

Alterations and Conversions

Compartment No.	Change Category	Drawing No.	AAI Approval Reference No.	Comment	Actions
No drawings found					

+ Add Weld Inspection

Weld Inspection Results

Compartment No.	Inspection Results	Weld Code	Weld Location	Inspection Technique	No. of Defects	Max Defect Length (in.)	Defect Orientation Code 1	Defect Orientation Code 2	Defect Orientation Code 3	How Repaired (Weld)	Actions
1	Defects Found	A1	A	[A] Acoustical Emission	2	32	No exceptions found			Grinding and Straightening with no Weld Sublap	✎ ✕

+ Add Shell/Sill Damage

Shell/Sill Inspection Results

Compartment No.	Failed Component	Failure Type	Failure Cause	How Repaired (Shell)	Defect Length (in.)	Defect Area	Repair Location	Inspection Method	Actions
1	BCV Mounting Saddle	Corrosion - Grouped F/A	Corrosion	IBC - Replace in Kind Not Otherwise Listed in the Repair Codes	1	0	C Center	[A] Acoustical Emission	✎ ✕

Facility Rep. Name *

RAIL

Submitted By *

QA

Close

Delete

Save Inspection

Submit Inspection

TCID Application



Common Questions

Q: I am a Repair Shop. What access do I need to submit an inspection on behalf of my customer?

A: The TCID Company Admin may grant the Shop the role of TCID Facility User under the Car Owner Mark. This will allow the shop to submit an inspection on their behalf. This role will only allow the Shop to see the inspections they have submitted for that Mark. They will not be able to see any other inspections for that same mark.

TCID Application



Common Questions

Q: Does Railinc have any rules that follow entry submissions into TCID by a 3rd party?

A: No, there are no rules around the entry for the "submitted by name" field. However, when transcribing a New Inspection Form for a shop into TCID, the 'submitted by name' must be the name that is listed on the paper form or the name of the submitter that is manually transcribing the paper form into the electronic portal. In general, the intention of TCID is to be a digital copy of the paper form, so when in doubt the customer should be entering what is on the paper form.

TCID Data Specification Manual



- The types of fields are described in the Data Rules column:

- Required
- Optional
- Conditional

	Batch Field Name	Interface Field Name	Description	Data Rules
1	INSP_INDICATOR		This field allows you to bulk add or bulk delete inspections via CSV upload.	A or blank = Add D = Delete
2	INSP_ID		Unique inspection ID, assigned by submitting party for each event, for batch upload files only	(●) Alpha-Numeric, 12 characters max
3	INSPREASON	Inspection/Report Type	Reason for Inspection	(●) Numeric, 2 digit max from 1 to 63 corresponding to the bitwise or one of these six options. When two reasons are applicable, enter the total value (e.g., Conversion and Alteration value [1+2] is 3): • Conversion: 1 • Alteration: 2 • Stub Sill Inspection: 4 • Tank Qualification: 8 • Other: 16 • Welded Repair: 32 Select appropriate checkbox(es) for this field.
4	CARMARK	Equipment Initial	The reporting mark stenciled on the car	(●) Alpha-Numeric, 4 characters max; If an additional mark is needed, contact the company administrator. See App C for details.
5	CARNUM	Equipment Number	The equipment number stenciled on the car	(●) Numeric, 6 digit max
6	CLASS	Stencil Class	Current car specification, as stenciled, prior to any R1 modifications	(●) Alpha-Numeric, 11 characters max; Select entry for this field from a drop-down list. See App A for details.
7	SHOPCOMP	Station Stencil	Station stencil of inspecting company or facility	(●) Alpha-Numeric, 7 characters max; Select entry for this field from a drop-down list. See App P for details.

How to Use The TCID Data Specification Manual

- Cross-checking error values with the TCID Data Specification Manual
- Ex) “I am currently receiving an error for the Miles section of my CVS Batch Upload, but the equipment has 150,000 miles. What do I do?”

Q	R	S	T	U	V
STUBSILLE	STUBSILLDESIGNVARIATION	MILES	CONSTRCARSPEC	POSTR1CARSPEC	DAMAGETYPE
HSTJKL	Non-Continuous	150,000	111A100W1		Non-Accident
HSTJKL	Non-Continuous	150,000	111A100W1		Non-Accident

27	MILES	Miles (actual cumulative miles in thousands of miles)	Number of car miles in thousands. (e.g., enter 23 for 23,000 miles)	Numeric, 4 digit max of 0-1000 (0 to 1,000,000 miles). Any entry larger than 1000 produces an error message. This field is required for the application, and optional for the batch upload.
----	-------	---	---	---

TCID Creating Batch CSV



Inspections > Batch Upload

- Reduces time by allowing multiple inspections at once
- Validates certain fields against Umler equipment data
- Batch Field Name must be included in the first row of all batch file submissions
- Must be in .CSV Format
- File size must be less than 1MB

Tank Car Integrated Database

Depending on user access, Tank Car Integrated Database provides the ability to create a new inspection, implement a batch import, and delete, edit, submit, or download an open inspection. It was designed to consolidate the information on the AAR forms R-1, R-2, and stubsill inspections. Data Analysts can input data and run reports for their group.

Tank Car Integrated Database uses inspection templates to accurately report cracks found in the stubsill attachment welds.

More On This Page:

- [Tank Car Templates](#)
- [TCID Notice of Implementation](#)
- [TCID Frequently Asked Questions](#)

Related Support Documents

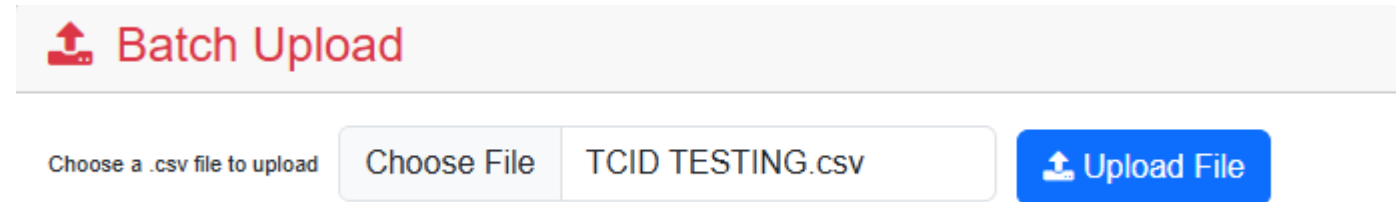
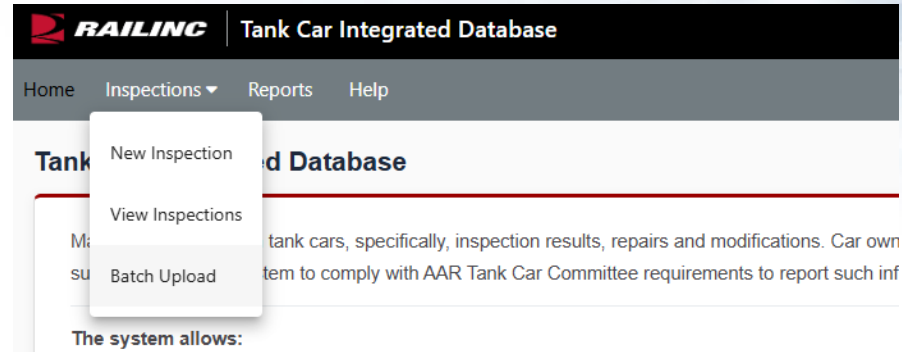
- [TCID User Guide](#)
- [Access SSO and Railinc Applications Quick Guide](#)
- [TCID Data Specification Manual](#)
- [AAR Form TCID](#)
- [TCID Data Dependencies Matrix and Appendices](#)
- [Sill Design Template Mapping](#)
- [Tank Car Location Chart](#)
- [TCID Batch File Example](#)

	A	B	C	D	E	F	G	H	I	J	K
1	INSP_INDICATOR	INSP_ID	INSPREASON	CARMARK	CARNUM	CLASS	SHOPCOMP	SHOPCITY	SHOPSTATE	BUILTDAT	INSPDATE
2	A	1007750	2	AARX	6658	112J340W	UTCO	AARX	TX	19991101	20220801

TCID Batch Upload

Inspections > Batch Upload

- Click Batch Upload
- Click Browse to choose a file
- Click Upload File to submit file to TCID

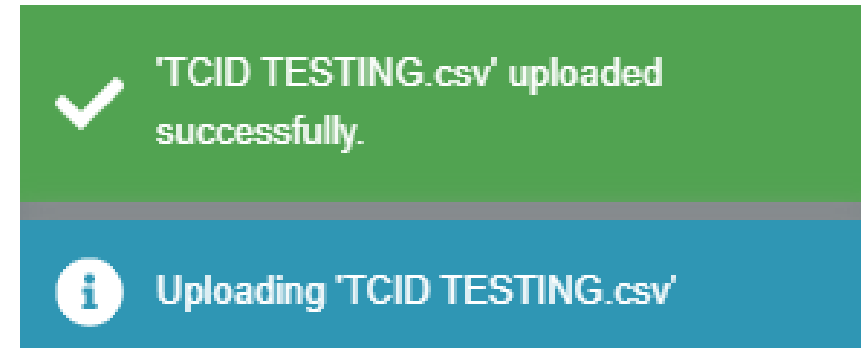


TCID Batch Upload



Inspections >
Batch Upload

- File upload status
 - Blue = In Progress
 - Green = Success



TCID Batch Upload



Batch Upload >

TCID Batch File Submission Report

Accepted – Submitted

Submission Details

- File Name
- Date Submitted

Inspections

- Total = Total Submitted
- Accepted = Total Accepted
- Rejected = Total Rejected

TCID Batch File Submission Report: TCID_Batch_Upload_Example_AARX6658_TEST--06262023.csv



NoReply@railinc.com
To: Caulfield, Terry

TCID Batch File Submission Report

FileName: TCID_Batch_Upload_Example_AARX6658_TEST--06262023.csv

Date Submitted: 2023-10-20 11:40:53

Inspections: Total = 1, Added = 1, Deleted = 0, Rejected = 0.

Below errors/warnings were found within the file:

Inspection ID : 1007750

Field Name : Builder [BUILDER]

Field Value: UTLX

Error Type : WARNING

Error Msg : BUILDER Value does not match Umler Value : TRIN

TCID Batch Upload



Batch Upload >

TCID Batch File Submission Report

Rejected – Not Submitted Submission Details

- File Name
- Date Submitted

Inspections

- Total = Total Submitted
- Accepted = Total Accepted
- Rejected = Total Rejected

Error Details

- Field Name: Listed in TCID & File
- Field Value: Data Submitted
- Error Type: Error (reject)
- Error Message: Description

TCID Batch File Submission Report: TCID_Batch_Upload_Example_AARX898989_TEST--06262023.csv



NoReply@railinc.com

To: Caulfield, Terry

Retention Policy: Inbox - Delete older than 90 days (90 days)



InspectionError.csv 1 KB

TCID Batch File Submission Report

FileName: TCID_Batch_Upload_Example_AARX898989_TEST--06262023.csv

Date Submitted: 2023-09-21 15:08:27

Inspections: Total = 1, Added = 0, Deleted = 0, Rejected = 1.

Below errors/warnings were found within the file:

Inspection ID : 1007750

Field Name : Stub Sill Deformation (A End) [STUBSILLDEFA]

Field Value: NULL

Error Type : WARNING

Error Msg : Value was not a non-decimal number

Inspection ID : 1007750

Field Name : Stub Sill Deformation (B End) [STUBSILLDEFB]

Field Value: NULL

Error Type : WARNING

Error Msg : Value was not a non-decimal number

Inspection ID : 1007750

Field Name : Equipment Initial Number [CARMARK] [CARNUM]

Field Value: AARX000898989

Error Type : ERROR

Error Msg : Invalid Equipment Initial or Equipment Number provided.

TCID Data Dependencies Matrix & Appendix



- View valid values
- See valid combinations

TCID Data Dependencies Matrix & Appendix



- Separate worksheets for each Appendix

	A	B	C
1	NAME	code equals	Set StencilClass code,description
2	Generate Stencil Class fact "103"	"103"	"103","Major Class 10 - DOT 103"
3	Generate Stencil Class fact "103A"	"103A"	"103A","Major Class 05 - DOT 103A"
4	Generate Stencil Class fact "103AALW"	"103AALW"	"103AALW","Major Class 02 - DOT 103AALW"
5	Generate Stencil Class fact "103ALW"	"103ALW"	"103ALW","Major Class 01 - DOT 103ALW"
6	Generate Stencil Class fact "103ANW"	"103ANW"	"103ANW","Major Class 04 - DOT 103ANW"
7	Generate Stencil Class fact "103AW"	"103AW"	"103AW","Major Class 05/19 - DOT 103AW"
8	Generate Stencil Class fact "103BW"	"103BW"	"103BW","Major Class 05 - DOT 103BW"
	Generate Stencil Class fact "103C"	"103C"	"103C","Major Class 05 - DOT 103C"

< > ... App A Stencil Classes App B Builders App C Car Marks

	A	B	C
1	NAME	code equals	Set Builder code,description
2	Generate builder fact "9"	"9"	"9","NorfolkSouthernRwy"
3	Generate builder fact "AB"	"AB"	"AB","AMFBEAIRD"
4	Generate builder fact "ACF"	"ACF"	"ACF","AmericanCar&Foundry"
5	Generate builder fact "ACFX"	"ACFX"	"ACFX","ACFIndustries"
6	Generate builder fact "ALCC"	"ALCC"	"ALCC","AlloyCraftsCompany"
7	Generate builder fact "ARI"	"ARI"	"ARI","ARIIndustries"
8	Generate builder fact "BETH"	"BETH"	"BETH","BethlehemCarWorks"
9	Generate builder fact "CNCF"	"CNCF"	"CNCF","CarrosDeFerrocaril SA"
10	Generate builder fact "CUPB"	"CUPB"	"CUPB","CarrosDeFerrocaril SA"

< > ... App A Stencil Classes App B Builders App C Car Marks

How to Use The TCID Data Dependencies Matrix & Appendix



- Cross-checking error values with the CVS Batch Upload and TCID Data Specification Manual
- “I am receiving an error on the Builder field of my CVS. I may have forgotten what the Builder code is. Is there a way to check?”

24	BUILDER	Builder	Builder Code, as per UMLER	(●) Alpha-Numeric, 4 characters max; Select entry for this field from a drop-down list. See App B for details.
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	A	B	C	I
1	NAME	code equals	Set Builder code,description	
2	Generate builder fact "9"	"9"	"9","NorfolkSouthernRwy"	
3	Generate builder fact "AB"	"AB"	"AB","AMFBEAIRD"	
4	Generate builder fact "ACF"	"ACF"	"ACF","AmericanCar&Foundry"	
5	Generate builder fact "ACFX"	"ACFX"	"ACFX","ACFIndustries"	
6	Generate builder fact "ALCC"	"ALCC"	"ALCC","AlloyCraftsCompany"	
7	Generate builder fact "ARI"	"ARI"	"ARI","ARIIndustries"	
8	Generate builder fact "BETH"	"BETH"	"BETH","BethlehemCarWorks"	
9	Generate builder fact "CNCF"	"CNCF"	"CNCF","CarrosDeFerrocarriI SA"	
10	Generate builder fact "CURR"	"CURR"	"CURR","CurryRailService"	
11	Generate builder fact "ERSB"	"ERSB"	"ERSB","EbenezerRailcar"	
12	Generate builder fact "EVAN"	"EVAN"	"EVAN","EvansProducts"	
3	Generate builder fact "FCA"	"FCA"	"FCA","FreightCarAmerica"	
4	Generate builder fact "GATX"	"GATX"	"GATX","GATX"	
	Generate builder fact "GATX"			

< > ... il Classes

App B Builders

App C Car Marks

App D

Ready Accessibility InvertColors

FTP Set Up, FindUs.Rail (FUR)



- FTP set up
 - Contact Railinc CSC for FTP mailbox set up
 - Companies with an existing mailbox can add TCID subscription to their current setup
 - Companies without an existing mailbox will need to contact the Railinc Customer Success team for assistance with creating one
- FindUs.Rail (FUR)
 - Contact details must be added to receive email notifications on FTP submissions
 - Users with FUR access may update their contact record include the TCID category

Questions?

TCID Reports

Type of Reports

- **Inspection Detail**
 - **Search by:**
 - **Equipment Initial and Number**
 - **Equipment IDs**
 - **EIN**
 - **Date Range**
- **Inspection Summary**
- **Service History by Company**



RAILINC | Tank Car Integrated Database Launch Pad ▾ Sign Out

Home Inspections ▾ Reports Help

Reports

Report Name	Report Description	User Input	Run
Inspection Detail	All inspection information on a single piece of Equipment, Equipment Range, or Date Range can be requested. Equipment specific inspections can be requested singularly or via comma separation or a range indicated by a dash. Example: Equipment Numbers 1,5,10-12 would return all inspections for Equipment Numbers 1, 5, 10, 11, 12. Equipment IDs can be pasted as a list to search for inspections across multiple Equipment Initials and/or ranges. Example: ABCD1234, TEST1234, WXYZ1234, RAIL1234-1500 All inspection information on a Date Range can be requested. Date Range can be a single day (MM/DD/YYYY) or a range (MM/DD/YYYY-MM/DD/YYYY) Note: Date Range inspection requests do not require Equipment Numbers.	⇒ ☒ Equipment Initial ⇒ ☐ Equipment Number ⇒ ☐ Equipment IDs ⇒ ☐ EIN ⇒ ☐ Inspection Date (Day or Range)	
Inspection Summary	Summary of all inspections associated with your company.		
Service History by Company	This report will create a CSV file of all inspections for the associated company.		



Generating Inspection Detail Report
(Equipment Initial/Number) for
'RAIL531'.

TCID Reports

Reports >

- Inspection Detail
- PDF
- Excel



TCID Tank Car Inspection Detail: AARX0000006658

Report of Alterations, Conversions, Welded Repairs, and Stub Sill Inspections

Date of Entry: 09/21/2023
Equip. Initial/No.: AARX0000006658
Stencil Class: 112J340W
Built Date: 11/01/1999
Car Jacketed: 0
Reserved 2 (design specific):
Builder: UTLX
Stub Sill Design Variation: CONTINUOUS
Constructed Car Spec.: 112J340W
Inspect./Report Type: Alteration
Railroad Responsibility: 0
Stub Sill Deformation (B End): 0
Tank Contain. Failure: 0
Station Stencil: UTCO
Shop Location: AARX, TX
Inspection Date: 08/01/2022
Reserved 1 (design specific):
Original AAR Cert. No.: F997064
Stub Sill Design (as inspected): UTLZBH
Miles (x1000): 0
Car Spec. After Mod.: 112J340W
Nature of Damage: N/A
Stub Sill Deformation (A End): 0
Last Tank Qual Year: 2009
No. of Compartments: 1
Facility Rep. Name: TROY GAWD
EIN: 0010413982
Submitted By: UNION TANK CAR COMPANY
Stencil Mark: AARX

Alterations and Conversions

Compartment No.	Change Category	Drawing Number	AAR Approval Ref. No.	Drawing Comments
1	Top Fitting Model	KR-TFA-2001-056	501302	ANGLE VALVES MIDLAND, A720, SER #S FA-843-RA,3V-593-RA,FA-841-RA

Weld Inspection Results

Inspection Results	Compartment No. (weld)	Weld Code	Weld Location	Inspection Technique	No. of Defects	Max Defect Length	Defect Orientation Code 1	Defect Orientation Code 2	Defect Orientation Code 3	How Repaired (weld)
--------------------	------------------------	-----------	---------------	----------------------	----------------	-------------------	---------------------------	---------------------------	---------------------------	---------------------

Shell/Sill Inspection Results

Failed Component	Compartment No. (shell)	Failure Type	Failure Cause	How Repaired (shell)	Defect Length (in)	Defect Area	Repair Location	Inspection Method
------------------	-------------------------	--------------	---------------	----------------------	--------------------	-------------	-----------------	-------------------

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	APPROVAL_REFERENCE	BUILDER	BUILTDATE	CARMARK	CARNUM	CHANGE_CATEGORY	CLASS	COMPARTMENT_NO_CHANGE	COMPARTMENT_NO_SHELL	COMPARTMENT_NO_WELD	COMPONENT	CONSTRCARSPEC	DAMAGETYPE	DEFECT_AREA
2	501302	UTLX	19991101	AARX	6658	Top Fitting Model	112J340W	1				112J340W	N/A	
3														
.														

TCID Reports



- Inspection Summary
- All submitted inspections
 - Owner Delegate can view all company inspections
 - Facility can only view their inspections

Reports

Report Name	Report Description	User Input	Run
Inspection Detail	All inspection information on a single piece of Equipment, Equipment Range, or Date Range can be requested. Equipment specific inspections can be requested singularly or via comma separation or a range indicated by a dash. Example: Equipment Numbers 1,5,10-12 would return all inspections for Equipment Numbers 1, 5, 10, 11, 12. Equipment IDs can be pasted as a list to search for inspections across multiple Equipment Initials and/or ranges. Example: ABCD1234, TEST1234, WXYZ1234, RAIL1234-1500 All inspection information on a Date Range can be requested. Date Range can be a single day (MM/DD/YYYY) or a range (MM/DD/YYYY-MM/DD/YYYY) Note: Date Range inspection requests do not require Equipment Numbers.	☒ Equipment Initial Equipment Number ☐ Equipment IDs ☐ EIN ☐ Inspection Date (Day or Range)	
Inspection Summary	Summary of all inspections associated with your company.		

Generating Inspection Summary Report for RAIL.

TCID Reports



- **Inspection Summary**
 - PDF download only
- All submitted inspections
 - Owner Delegate can view all company inspections
 - Facility can only view their inspections



TCID Inspections Summary: AARX

Equip Initial	Equip No.	Submitted By	Last Modified	Inspection Status
AARX	0000006658	TCIDWEB	10/23/2023	Submitted
AARX	0000006658	TCIDWEB	10/20/2023	Submitted
AARX	0000008880	TCIDWEB	10/06/2023	Submitted

TCID Reports



- Service History by Company
- Excel download only
- All submitted inspections
 - Owner Delegates can view all company inspections
 - Facility Users can only view their inspections

Reports

Report Name	Report Description	User Input	Run
Inspection Detail	All inspection information on a single piece of Equipment, Equipment Range, or Date Range can be requested. Equipment specific inspections can be requested singularly or via comma separation or a range indicated by a dash. Example: Equipment Numbers 1,5,10-12 would return all inspections for Equipment Numbers 1, 5, 10, 11, 12. Equipment IDs can be pasted as a list to search for inspections across multiple Equipment Initials and/or ranges. Example: ABCD1234, TEST1234, WXYZ1234, RAIL1234-1500 All inspection information on a Date Range can be requested. Date Range can be a single day (MM/DD/YYYY) or a range (MM/DD/YYYY-MM/DD/YYYY) Note: Date Range inspection requests do not require Equipment Numbers.	☒ Equipment Initial ☐ Equipment Number ☐ Equipment IDs ☐ EIN ☐ Inspection Date (Day or Range)	 
Inspection Summary	Summary of all inspections associated with your company.		
Service History by Company	This report will create a CSV file of all inspections for the associated company. Note: Report will be emailed once it has been generated.		

 Service History Report will be emailed to you.

 Generating Service History Report for RAIL.

TCID Report



Reports >

- Service History by Company

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	
1	APPROVA	BUILDER	BUILTDAT	CARMARK	CARNUM	CHANGE_	CLASS	COMPART	COMPART	COMPART	COMPONE	CONSTRC	DAMAGET	DEFECT_A	DEFECT_L	DEFECT_O	DEFECT_O	DEFECT_O	DRAWING	DRAWING	FAILURE_	FAILURE_1	HOW_REP	HOW_REP	INSPDATE	INSPECTIC	INSPECTIC	INSPECTIC	INSPREAS	IN
2	501302	UTLX	19991031	AARX	6658	Top Fittin	112J340W	1				112J340W	N/A						ANGLE VA KR-TFA-2001-056						20220731					2
3	501302	UTLX	19991101	AARX	6658	Top Fittin	112J340W	1				112J340W	N/A						ANGLE VA KR-TFA-2001-056						20220801					2
4		TETX	19990102	AARX	8880		103ALW			1		105A100A	N/A			WFF	WFF	WFF						Grinding a	20230928		Defect(s)	[AE] Acou		32
5																														

TCID Application



Reminders

- New Inspections
 - Missing Station Stencil
- Batch Upload
 - The file must be in a .CSV format with a file size less than 1MB
 - Files with Warnings will be Accepted
- Reports
 - Tank Car Inspection Owner Delegate can run reports and see inspections for that company
 - Facility User can only see the data they have submitted and run reports only on that data

TCID Application



Scenario

Company A owns **AARX 1234** from its construction and can view all inspections it has submitted for the car

Company A sells **AARX 1234** to **Company B**. **Company A** can still view all inspections it has submitted while owning **AARX 1234** up until the transfer of ownership to **Company B**

Company B can see all inspections that **Company A** created for **AARX 1234**, while also being able to see the inspections they have created for the car

Company B sells **AARX 1234** to **Company C**

Company A can still see all inspections it submitted while owning the car

Company B can still see all inspections it submitted while owning the car up to the point of sale to **Company C**

Company C can see **ALL** inspections created for **AARX 1234**

The current Car Owner can always see any inspection submitted on the equipment.

TCID Application Help



• Help

Tank Car Integrated Database

Manage information on tank cars, specifically, inspection results, repairs and modifications. Car owners can use submissions to this system to comply with AAR Tank Car Committee requirements to report such information.

The system allows:

- AAR to monitor the tank car fleet for emerging problems
- Car owners to comply with 49 CFR Part 180 requirements to monitor their fleets' conditions and modify inspection programs accordingly
- Car owners to transfer car inspection history to buyers when selling cars

Resources

- AAR TCID Form
- TCID User Guide
- TCID Data Spec Manual
- Tank Car Templates

Inspection overview for RAIL

56 Total

- Open: 1
- Submitted: 54
- Re-open: 1

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Help

Search or explore content for help and tips.

Search or ask a question

- User Guide: Tank Car Integrated Database
- TCID Data Specifications Manual
- Tank Car Templates
- FAQ: TCID
- Webinar: Introduction to TCID
- Walkthrough: TCID Training Materials

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TCID Application Help



Help >

- TCID User Guide
- TCID Data Specification Manual
- Tank Car Templates
- TCID Notices of Implementation
- Batch File Example
- TCID Data Dependencies Matrix

The screenshot shows the Railinc website's navigation bar with links for Products & Services, Resources, Support, About Railinc, Careers, and Contact Us. A search bar is on the right. Below the navigation bar is a breadcrumb trail: Home > Products & Services > Tank Car Integrated Database. The main heading is 'Tank Car Integrated Database'. The text describes the database's functionality: 'Depending on user access, Tank Car Integrated Database provides the ability to create a new inspection, implement a batch import, and delete, edit, submit, or download an open inspection. It was designed to consolidate the information on the AAR forms R-1, R-2, and stubsill inspections. Data Analysts can input data and run reports for their group.' It also states: 'Tank Car Integrated Database uses inspection templates to accurately report cracks found in the stubsill attachment welds.' Below this is a 'More On This Page' section with links to 'Tank Car Templates' and 'TCID Notice of Implementation'. A 'TCID Demos' section is partially visible at the bottom. On the right side, there is a 'Related Support Documents' section with links to 'TCID User Guide', 'TCID Data Specification Manual', 'TCID FAQs', 'Access SSO, Railinc and TransmetriQ Applications Quick Guide', 'AAR Form TCID', 'TCID Data Dependencies Matrix and Appendices', 'Sill Design Template Mapping', 'Tank Car Location Chart', 'TCID Batch File Example', and 'TCID Intro Webinar Slides'.

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Home > Products & Services > Tank Car Integrated Database

Tank Car Integrated Database

Depending on user access, Tank Car Integrated Database provides the ability to create a new inspection, implement a batch import, and delete, edit, submit, or download an open inspection. It was designed to consolidate the information on the AAR forms R-1, R-2, and stubsill inspections. Data Analysts can input data and run reports for their group.

Tank Car Integrated Database uses inspection templates to accurately report cracks found in the stubsill attachment welds.

More On This Page:

- Tank Car Templates
- TCID Notice of Implementation

TCID Demos

Related Support Documents

- TCID User Guide
- TCID Data Specification Manual
- TCID FAQs
- Access SSO, Railinc and TransmetriQ Applications Quick Guide
- AAR Form TCID
- TCID Data Dependencies Matrix and Appendices
- Sill Design Template Mapping
- Tank Car Location Chart
- TCID Batch File Example
- TCID Intro Webinar Slides

What's Upcoming for TCID



- TCID Angular Upgrade Release – July 22nd
- TCID - Umler Integration Project Phase 2
- TCID Customer Satisfaction Survey August 3th -17th

Let Us Know Your Thoughts



Railinc Customer Success Center

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Railinc Keeps You Moving.

Railinc Customer Success Center

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