Introduction to Tank Car Integrated Database (TCID)

Presenter: Terry Caulfield

Product Support Specialist II

November 2023

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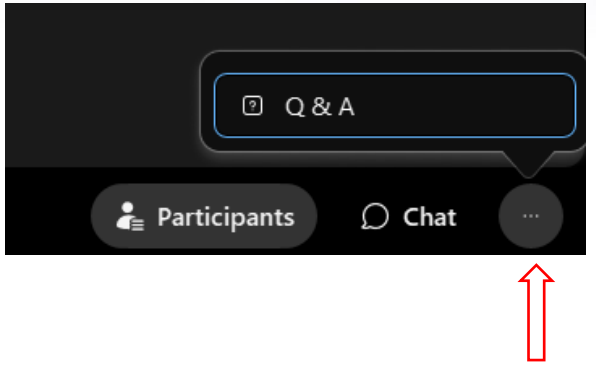
General Announcements

- 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 30 minutes
- Please complete the short survey at the end of presentation



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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

- What is TCID?
  - 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 stubsill attachment welds
- TCID also allows users to run reports for their company

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TCID User & 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

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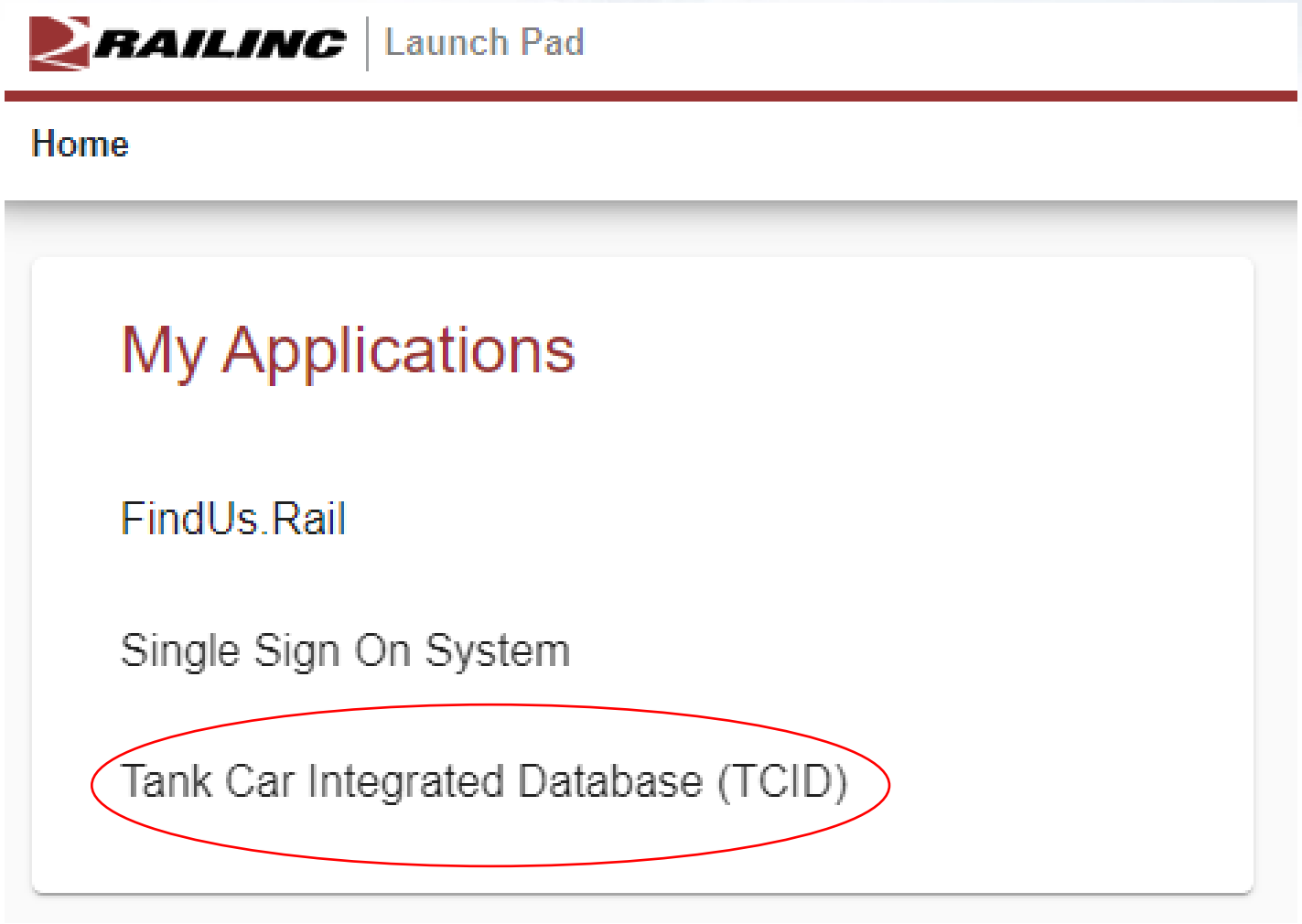
TCID Application

- Launch Pad



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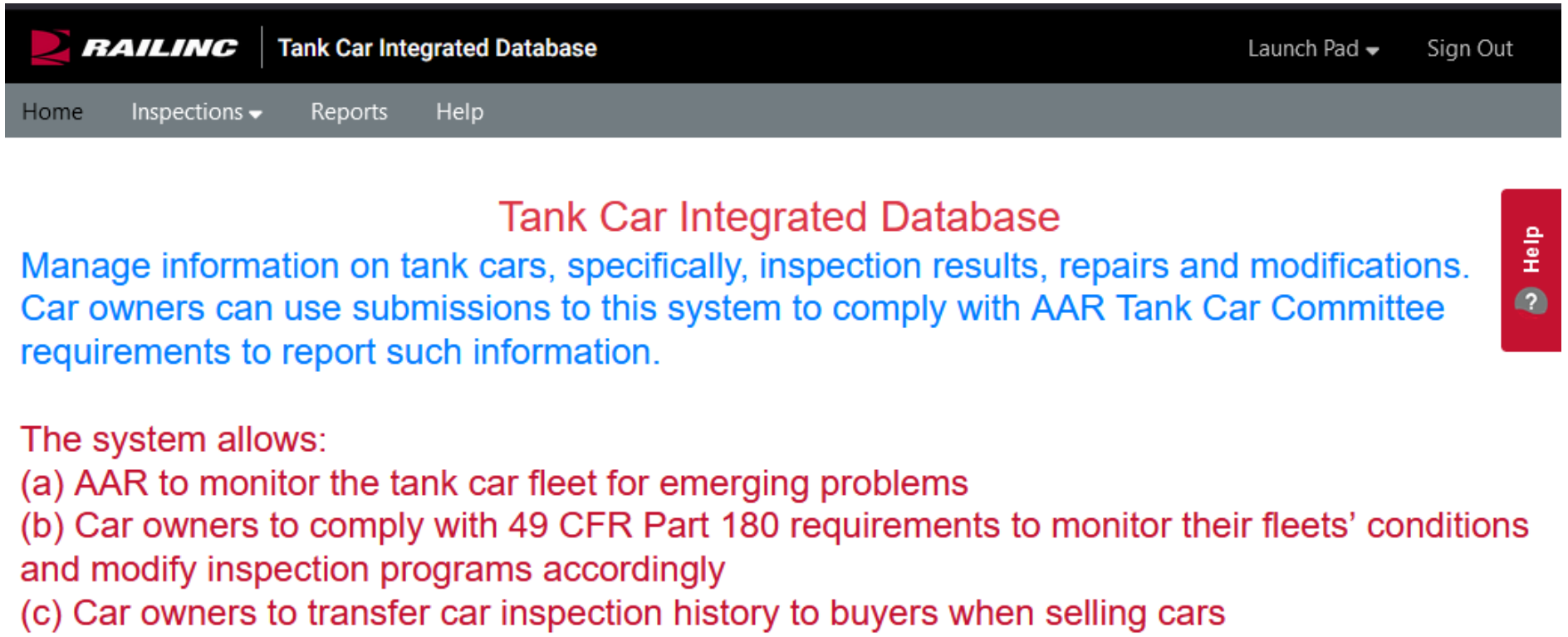
TCID Application

- Home Screen



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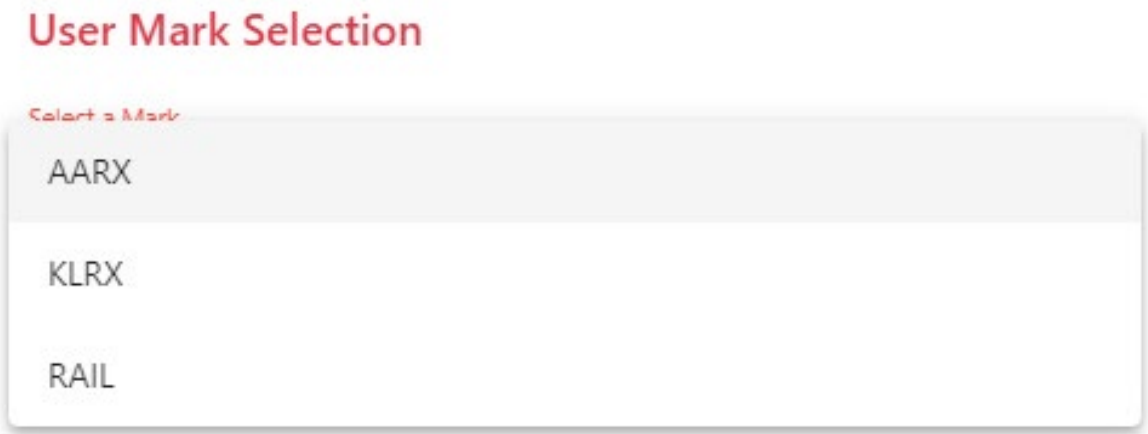
TCID Application

Home

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



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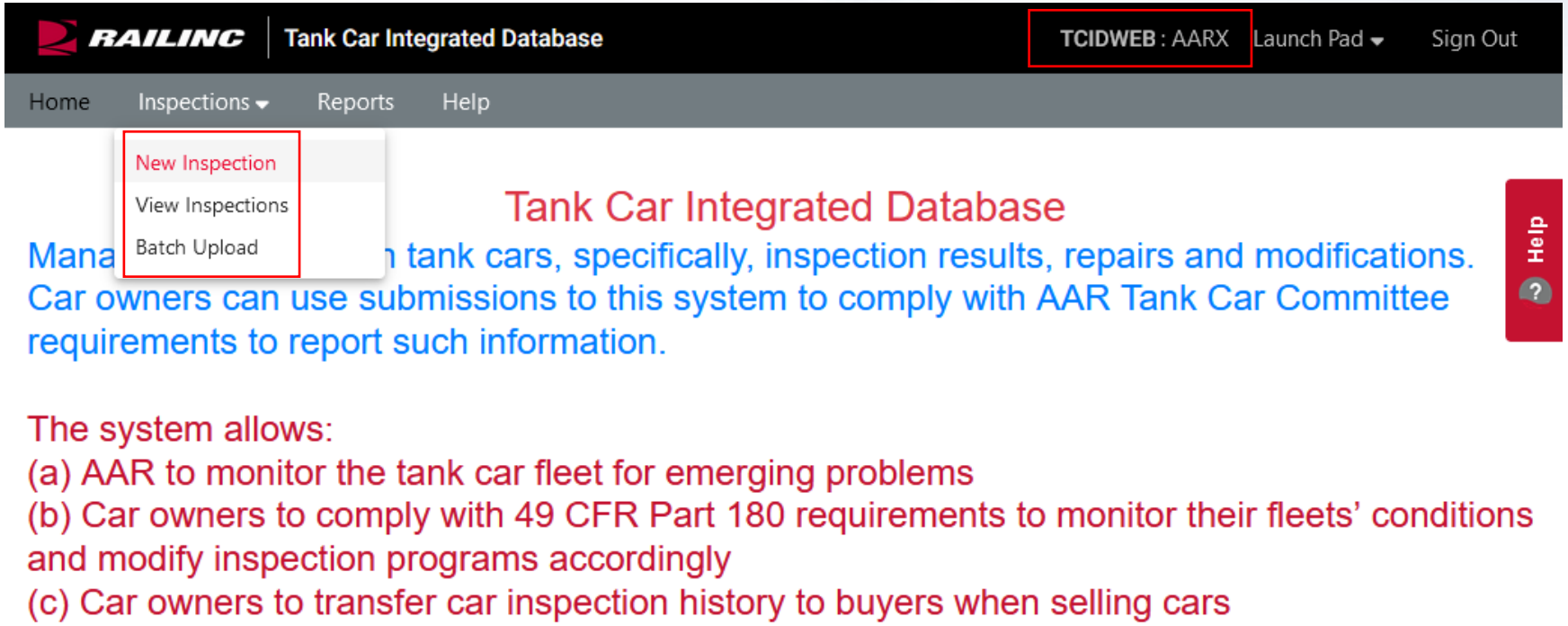
TCID Application

Inspections >

- New Inspections
- View Inspections
- Batch Upload



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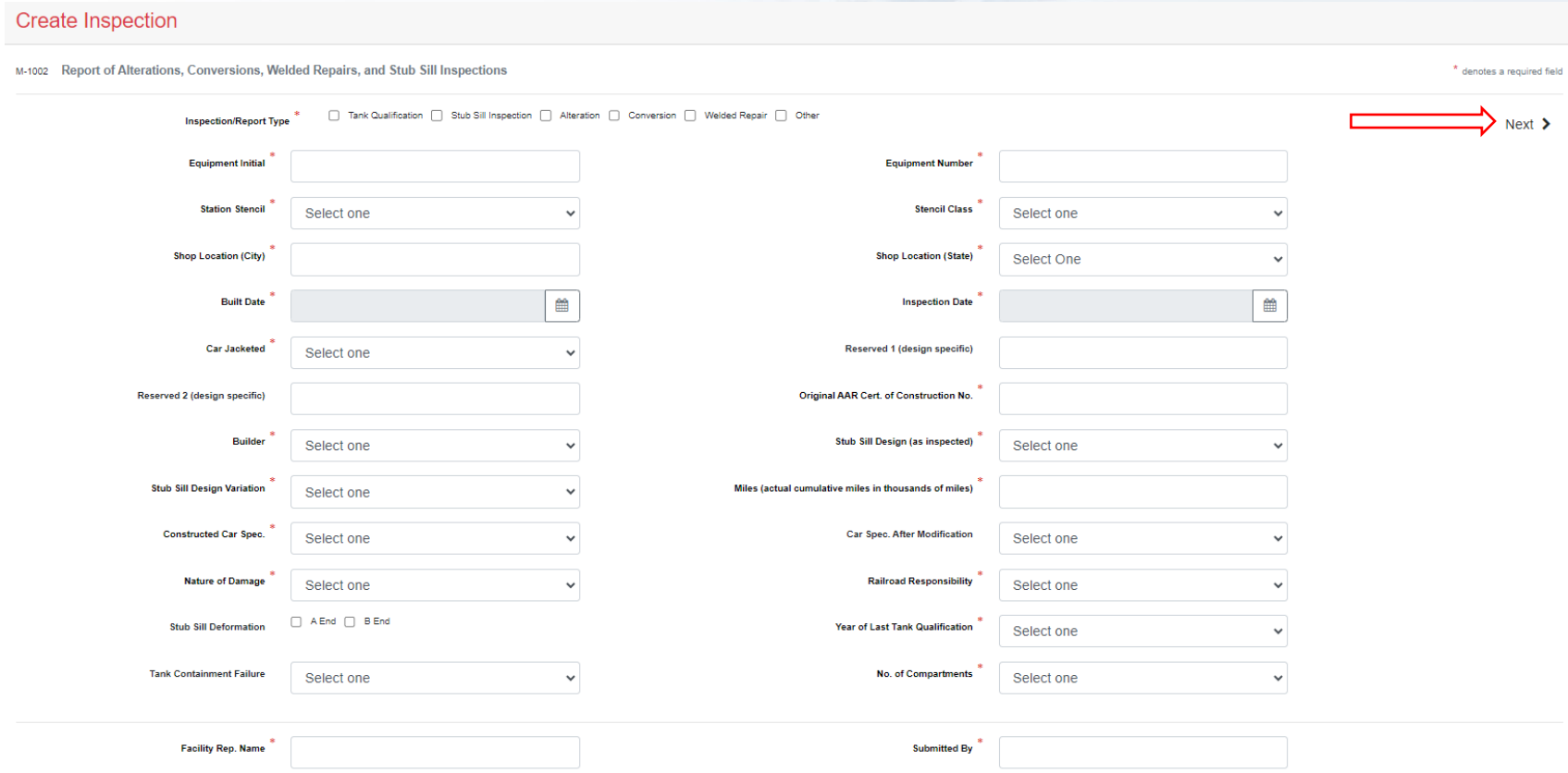
TCID Application

Inspections >

New Inspection

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



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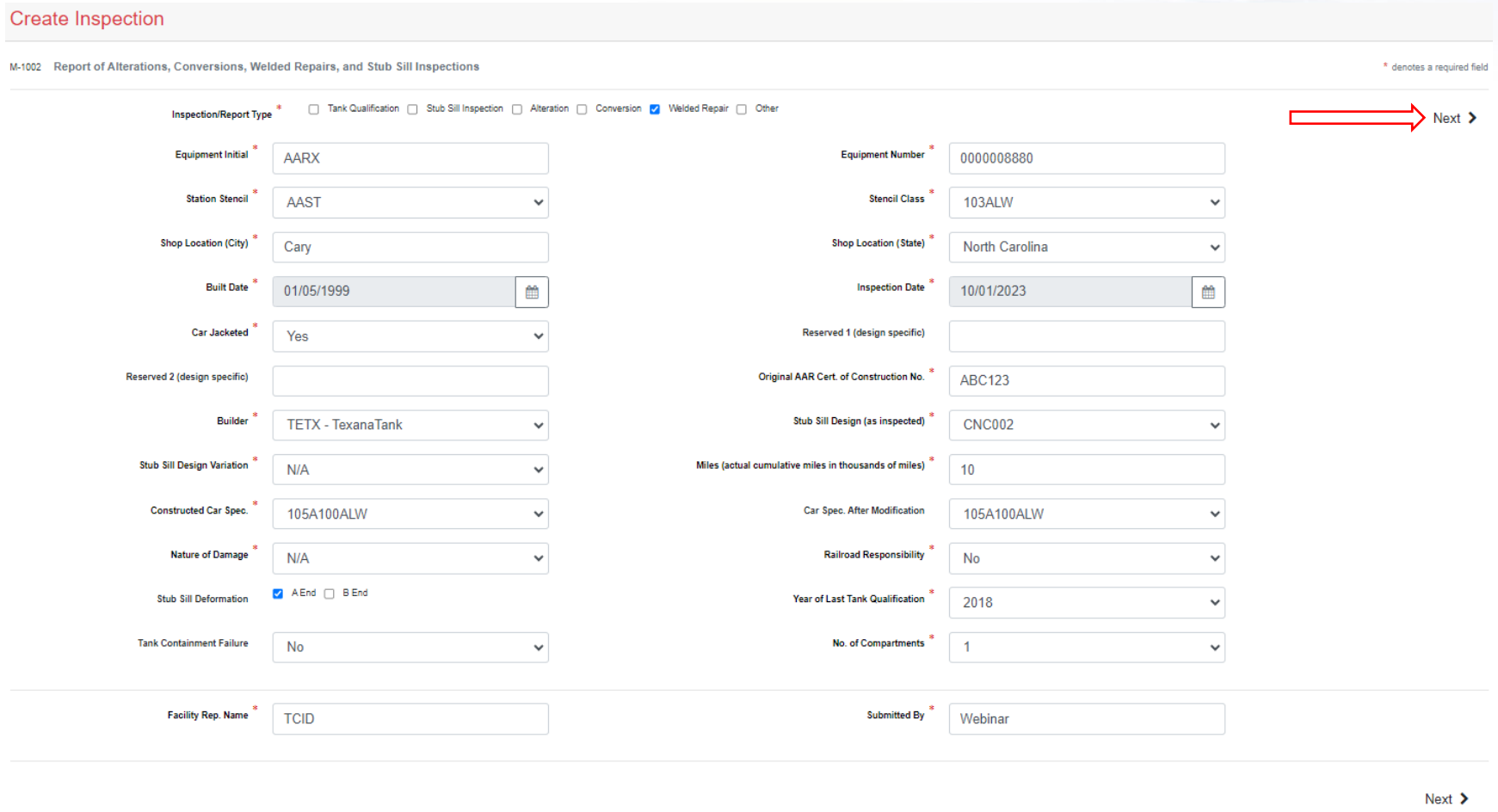
TCID Application



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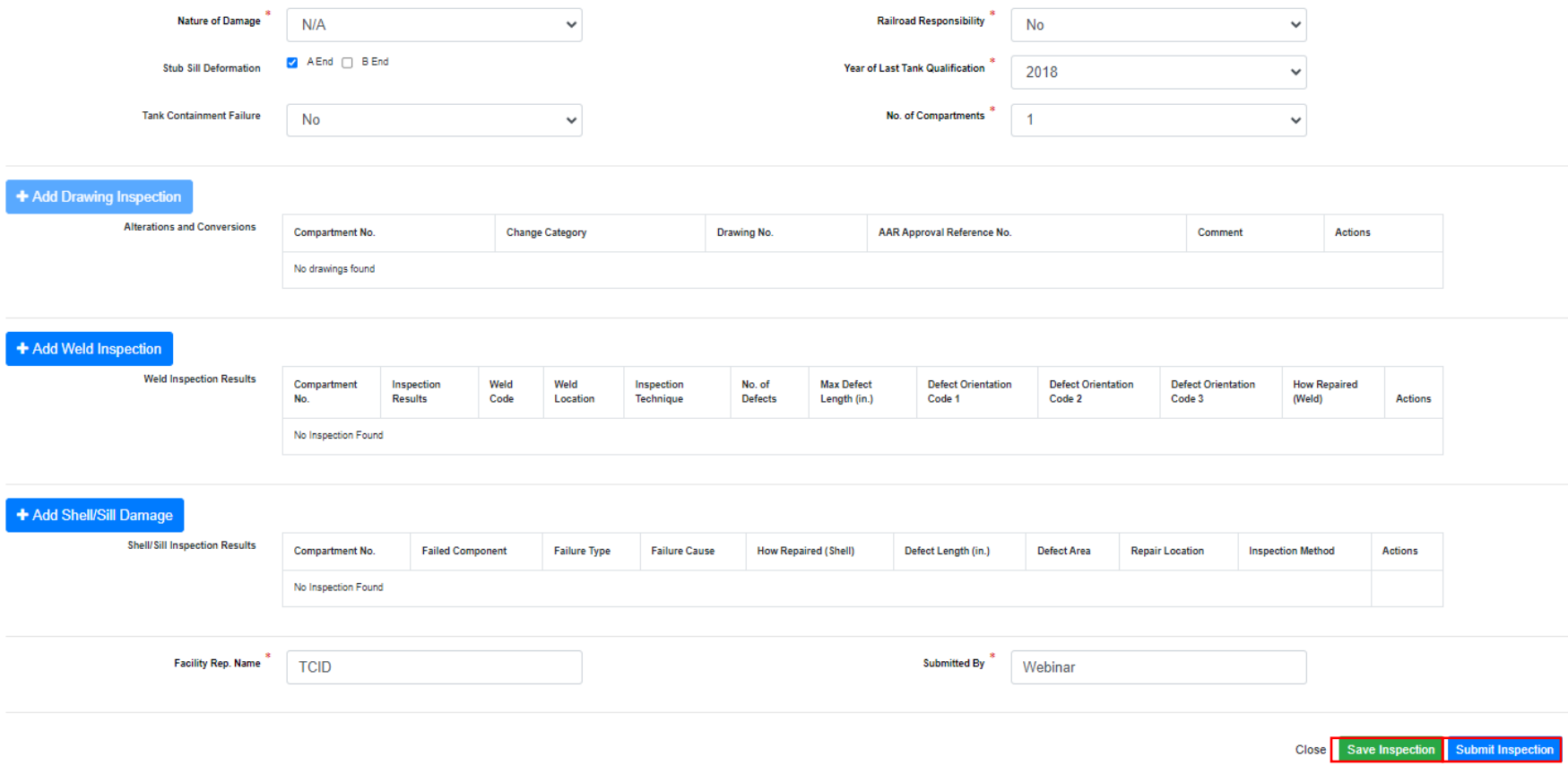
TCID Application

Inspections >

New Inspection

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



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TCID Application

Inspections >

New Inspection

- 3 sections
  - Drawing Inspection
  - Weld Inspection
  - Shell/Sill Damage

- Actions available
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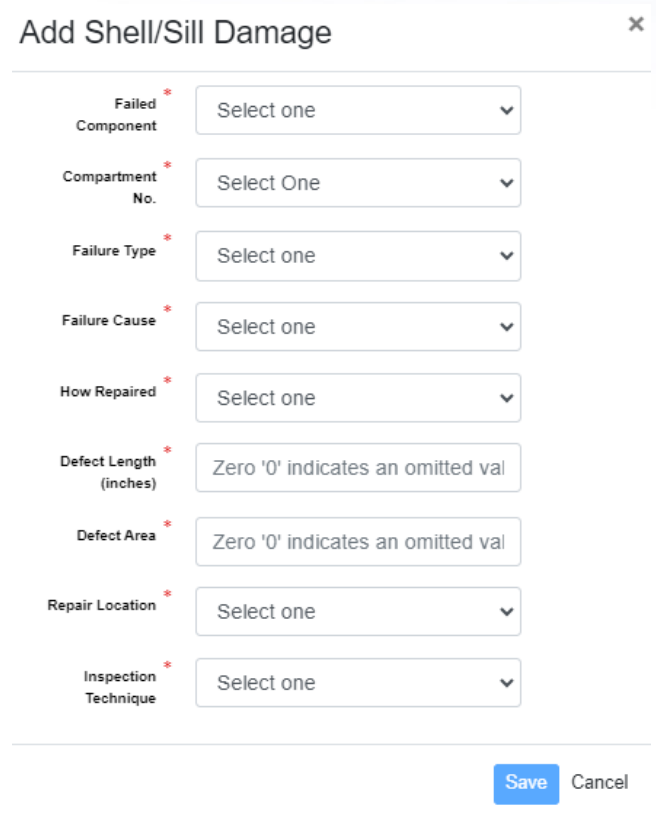

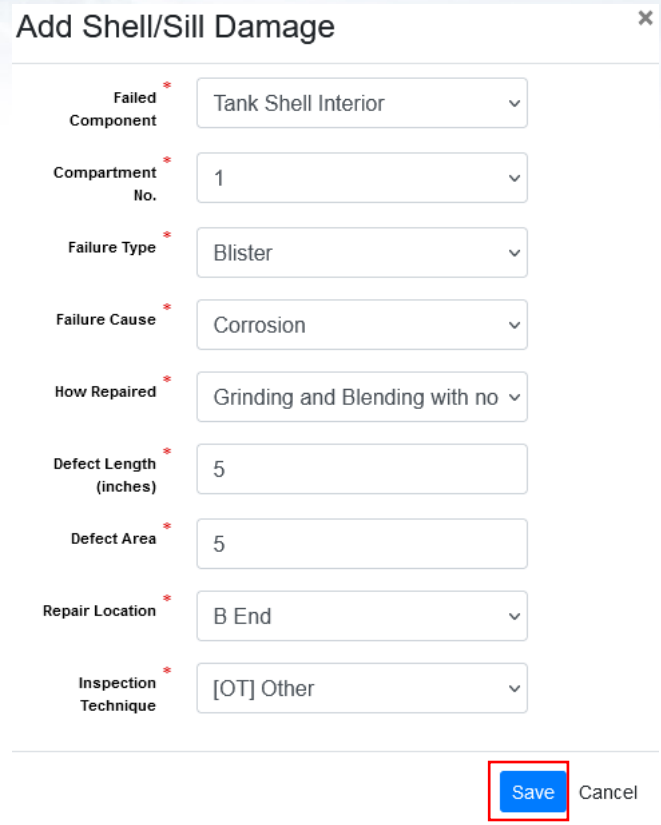

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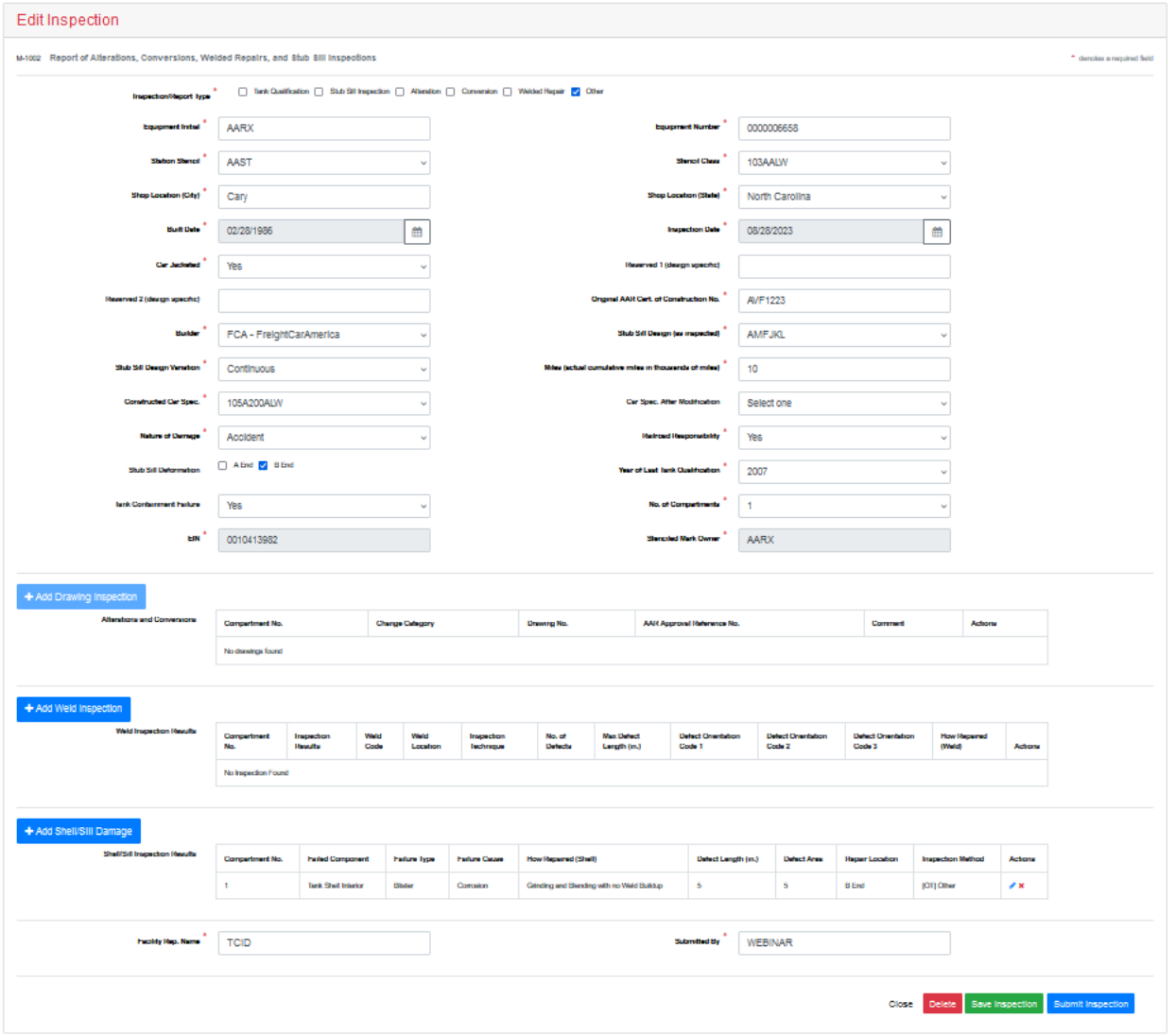
TCID Application

Inspections >

New Inspection

- Save Inspection
- Submit Inspection



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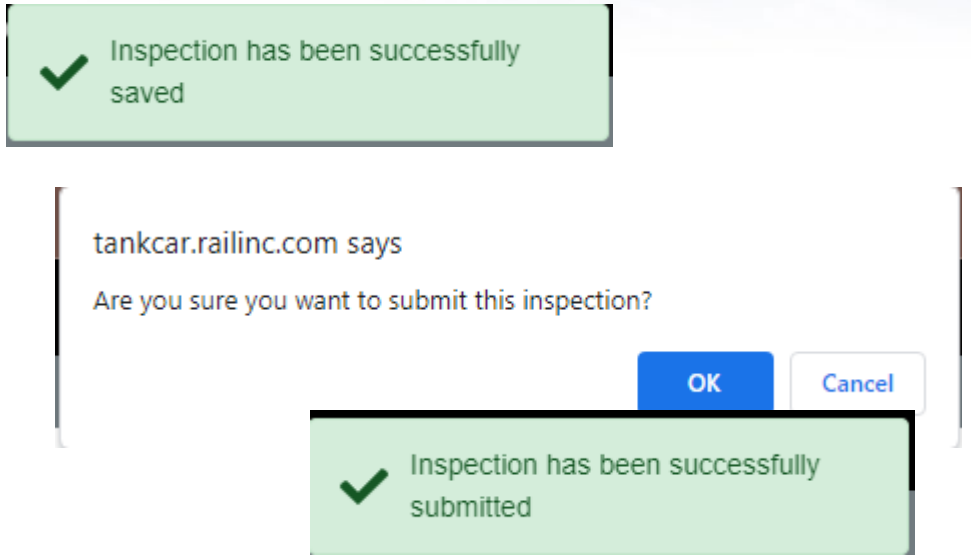
TCID Application

Inspections >

New Inspection

- Save Inspection
- Submit Inspection



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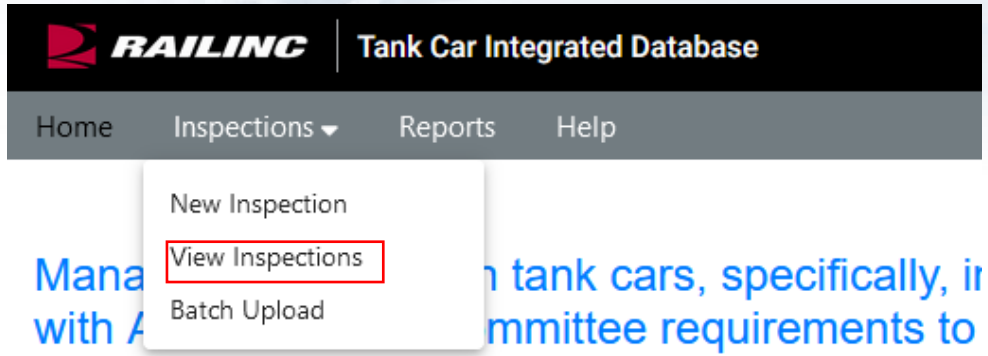
TCID Application

Inspections > View Inspections



Inspections

EIN	Built Date	Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
0010413982	Mar 1, 1986	AARX	0000006658	FCA	10	Aug 29, 2023	Oct 13, 2023, 8:54:59 AM	Open	Edit/Delete	
0010413982	Nov 1, 1999	AARX	0000006658	UTLX	0	Aug 1, 2022	Oct 13, 2023, 8:53:06 AM	Re-open	Edit/Delete	
0010486786	Jan 2, 1999	AARX	0000008880	TETX	10	Sep 28, 2023	Oct 6, 2023, 1:54:29 PM	Submitted	View/Unsub...	
0010413982	Nov 1, 1999	AARX	0000006658	UTLX	0	Aug 1, 2022	Sep 21, 2023, 3:00:54 PM	Submitted	View/Unsub...	

Inspections

EIN	Built Date	Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
0010413982	Nov 1, 1999	AARX	0000006658	UTLX		Aug 1, 2022	Oct 13, 2023, 8:53:06 AM	Re-open	Edit/Delete	
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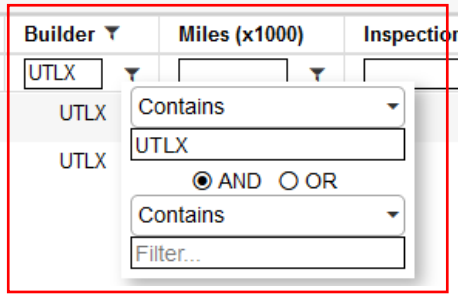

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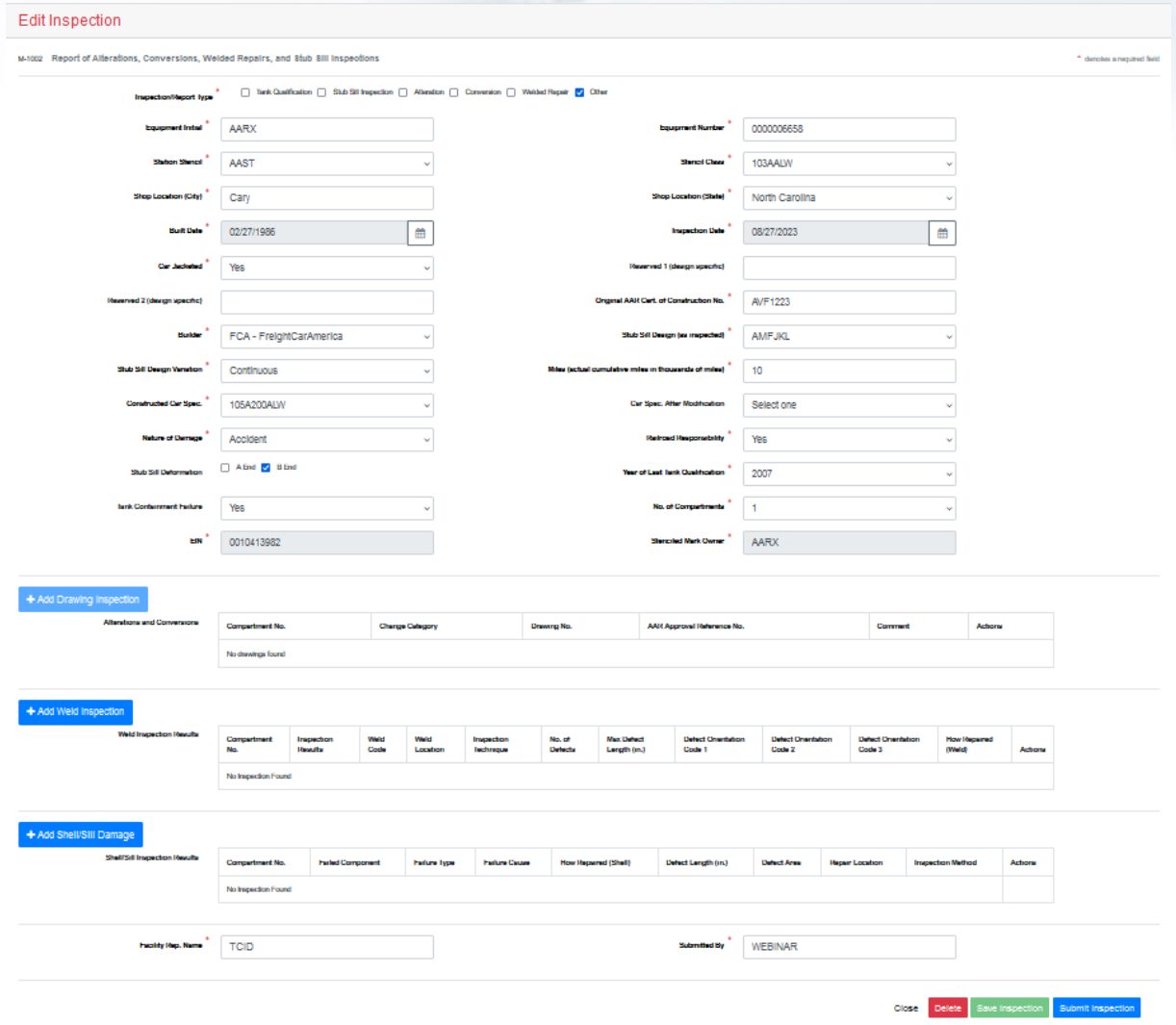
TCID Application

Inspections > View Inspections

- Edit/Delete Inspection
- Add Drawings



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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.

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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.

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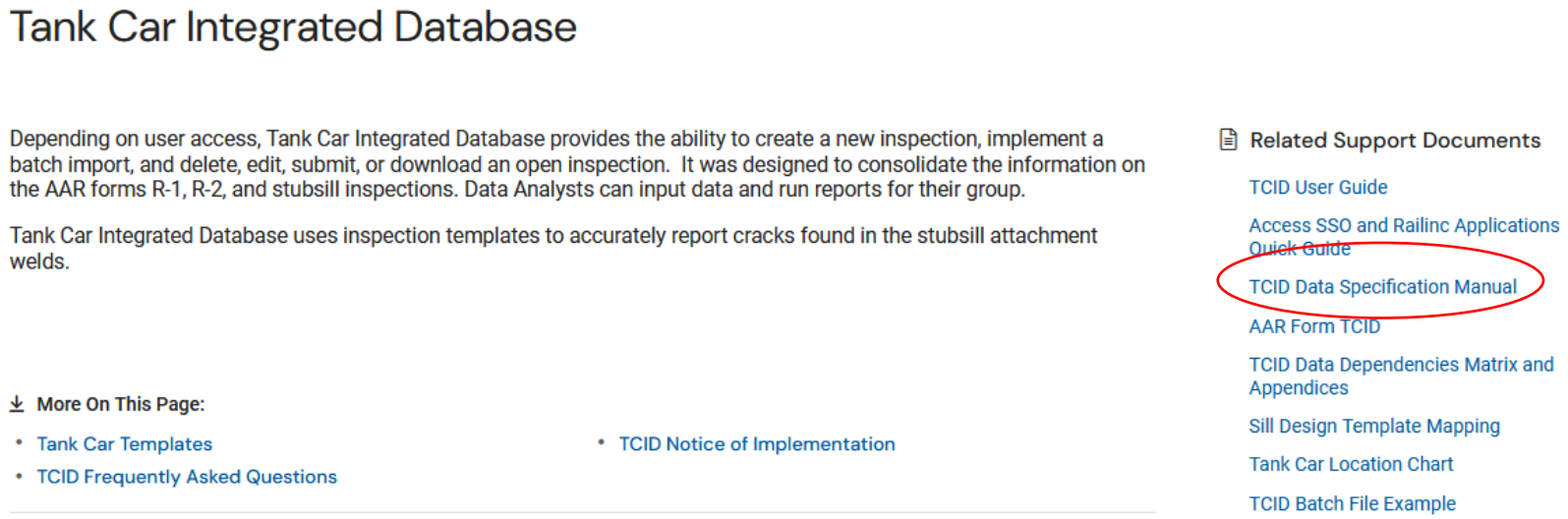
TCID Application

Inspections > Batch Upload

- Reduces time by allowing multiple inspections at once
- Validated certain fields against Umler equipment data
- Must be in .csv format
- File Size must be less than 1MB



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TCID Application

Inspections > Batch Upload

- 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.

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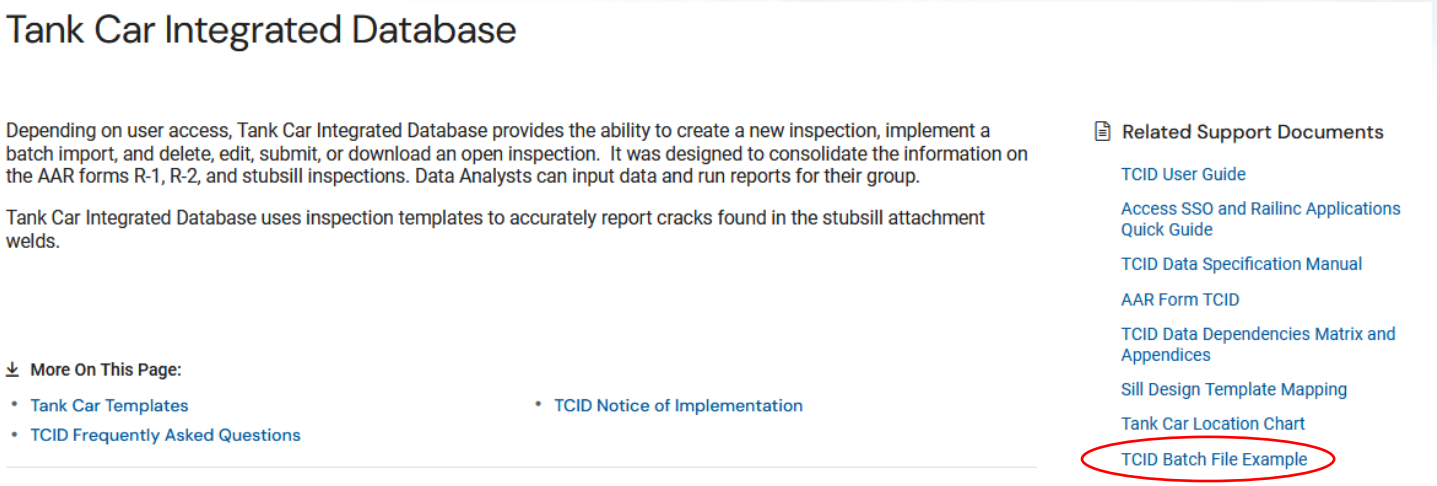
TCID Application

Inspections > Batch Upload

- 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



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

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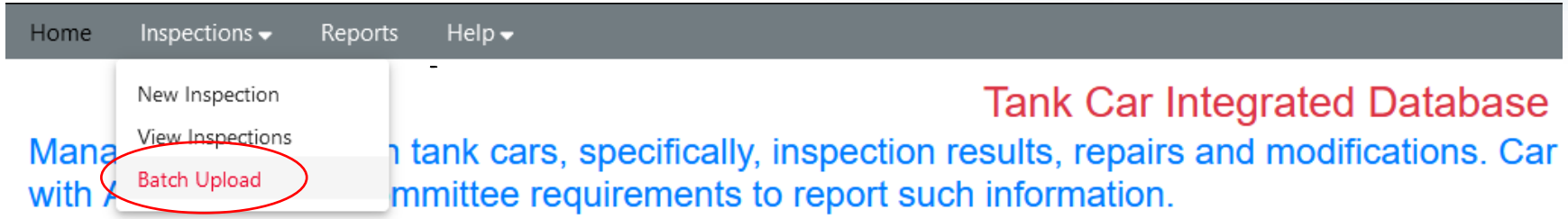
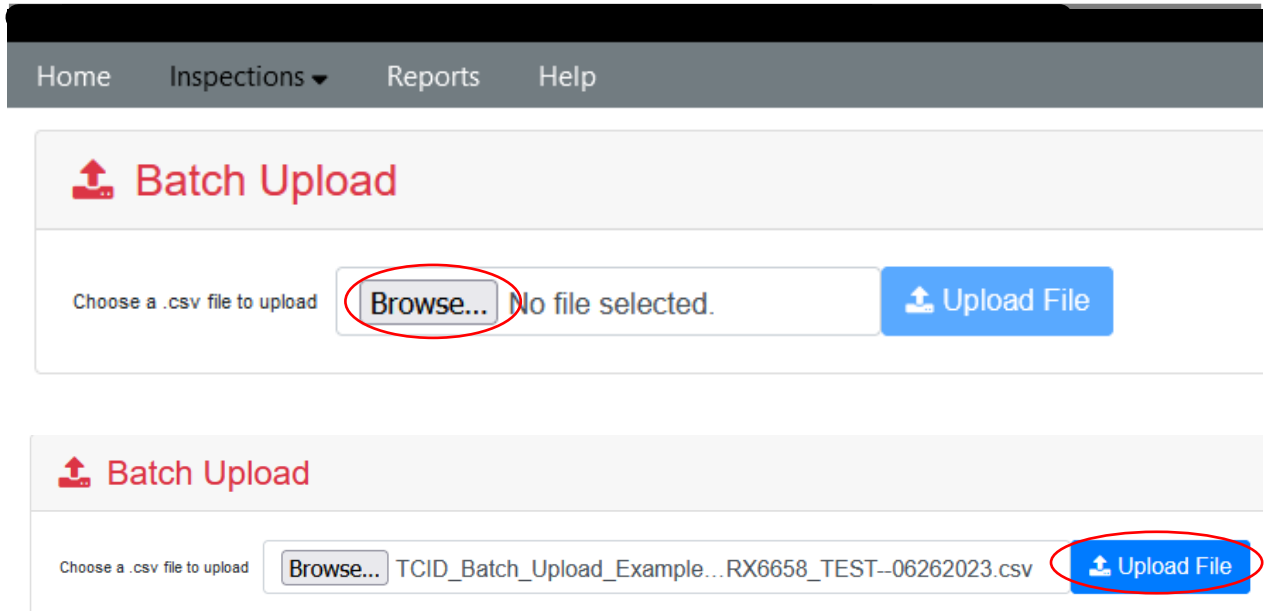
TCID Application

Inspections >

Batch Upload



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



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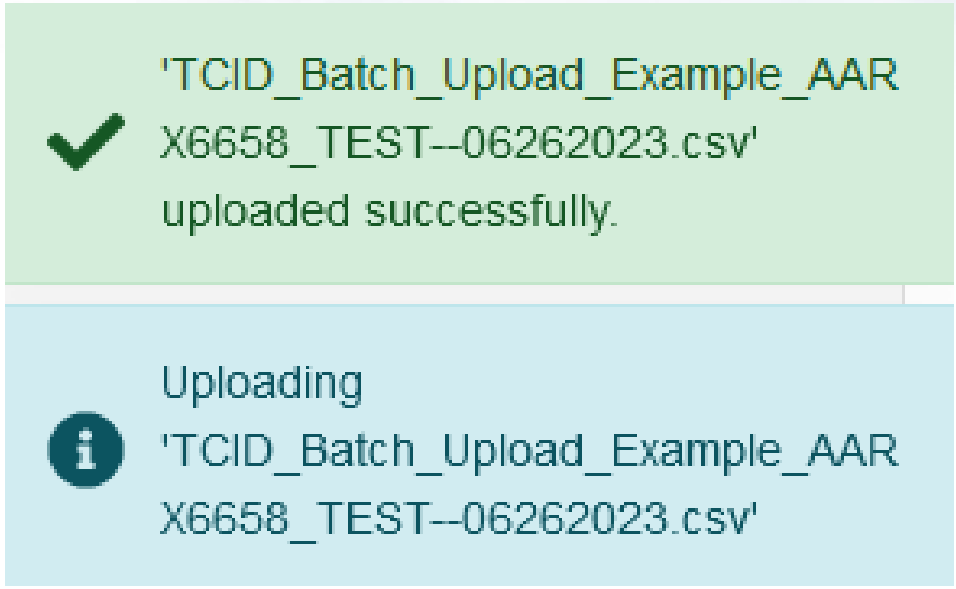
TCID Application

Inspections >

Batch Upload



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

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TCID Application

Batch Upload >

TCID Batch File Submission Report

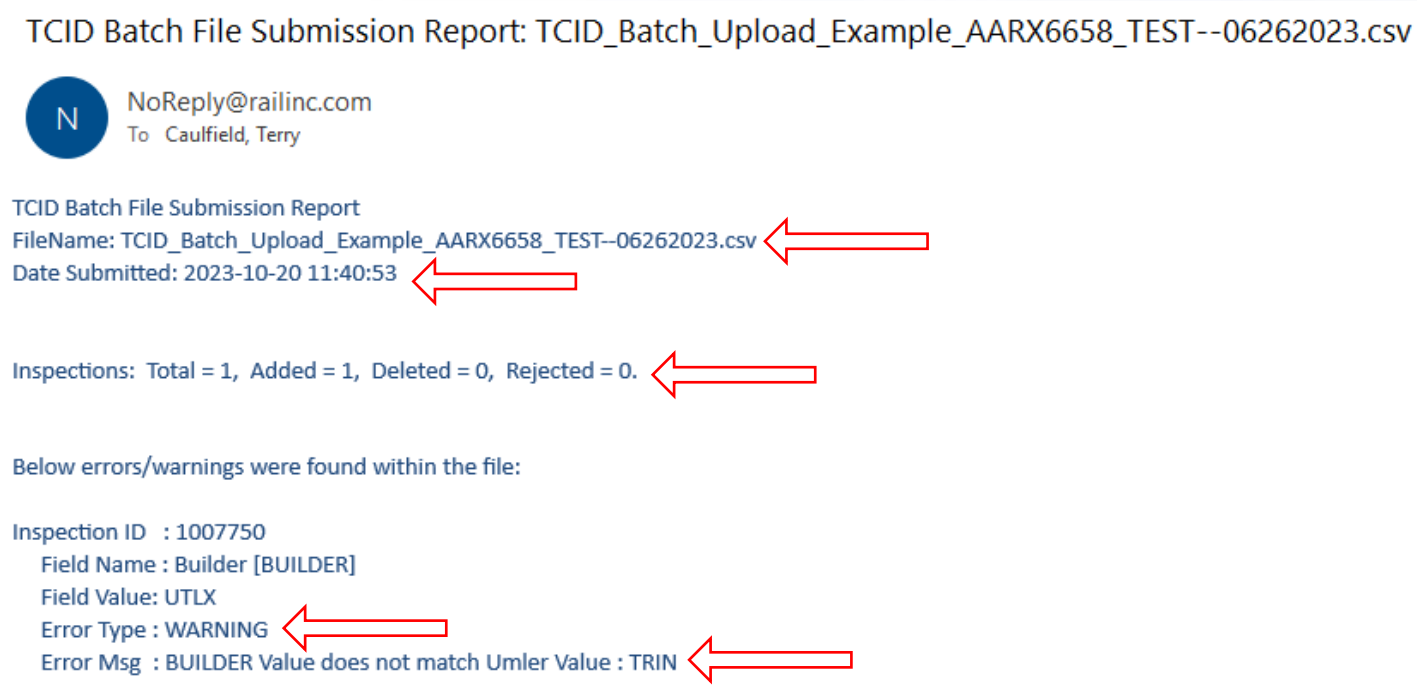
Accepted – Submitted

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

N

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

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TCID Application

Batch Upload >

TCID Batch File Submission Report

Rejected – Not Submitted

Submission Details

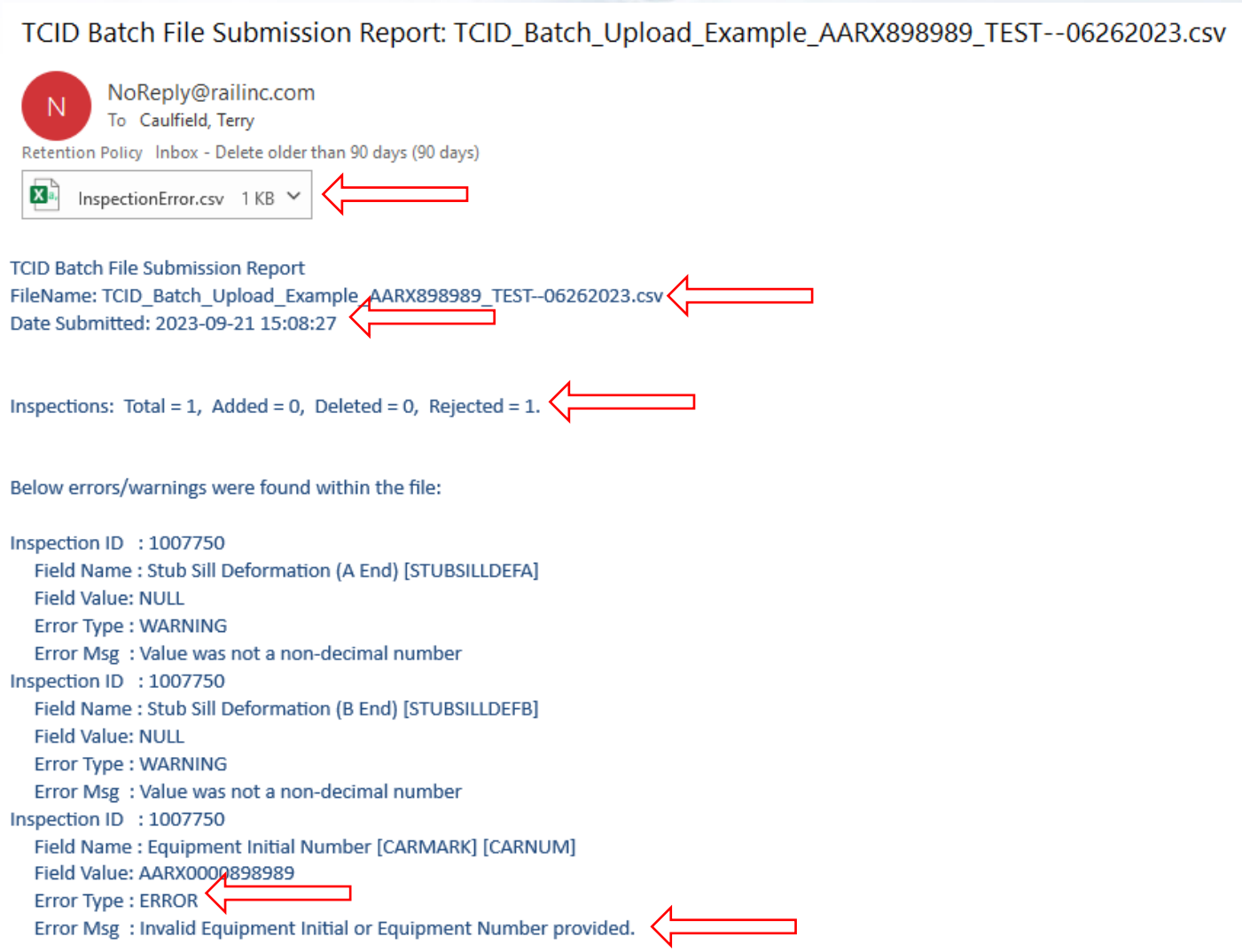
- File Name
- Date Submitted

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



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FTP Set Up, FindUs.Rail (FUR)

- FTP 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

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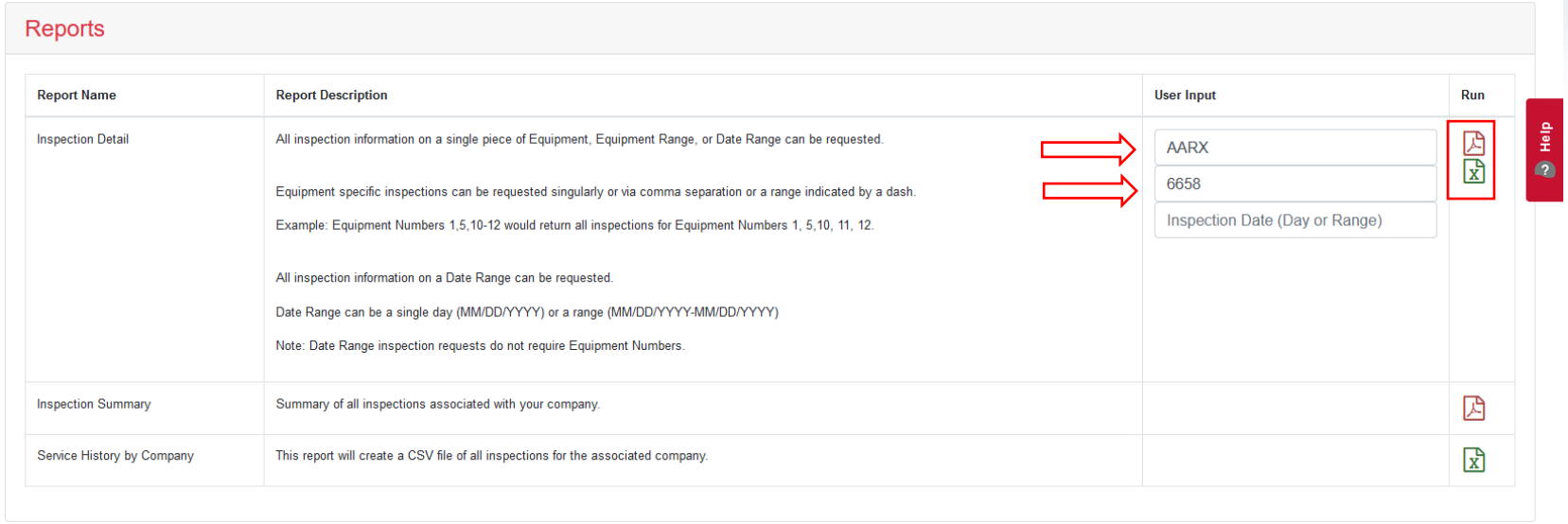
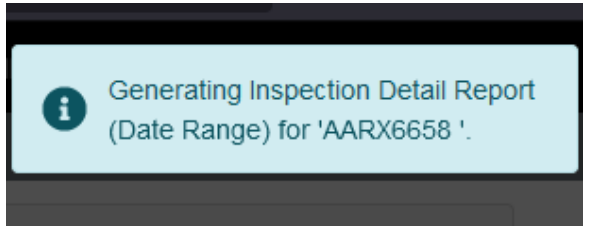
TCID Application

Reports >

- Inspection Detail
- Inspection Summary
- Service History by Company





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TCID Application

Reports >

- Inspection Detail
- PDF
- Excel

RAILINC

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														

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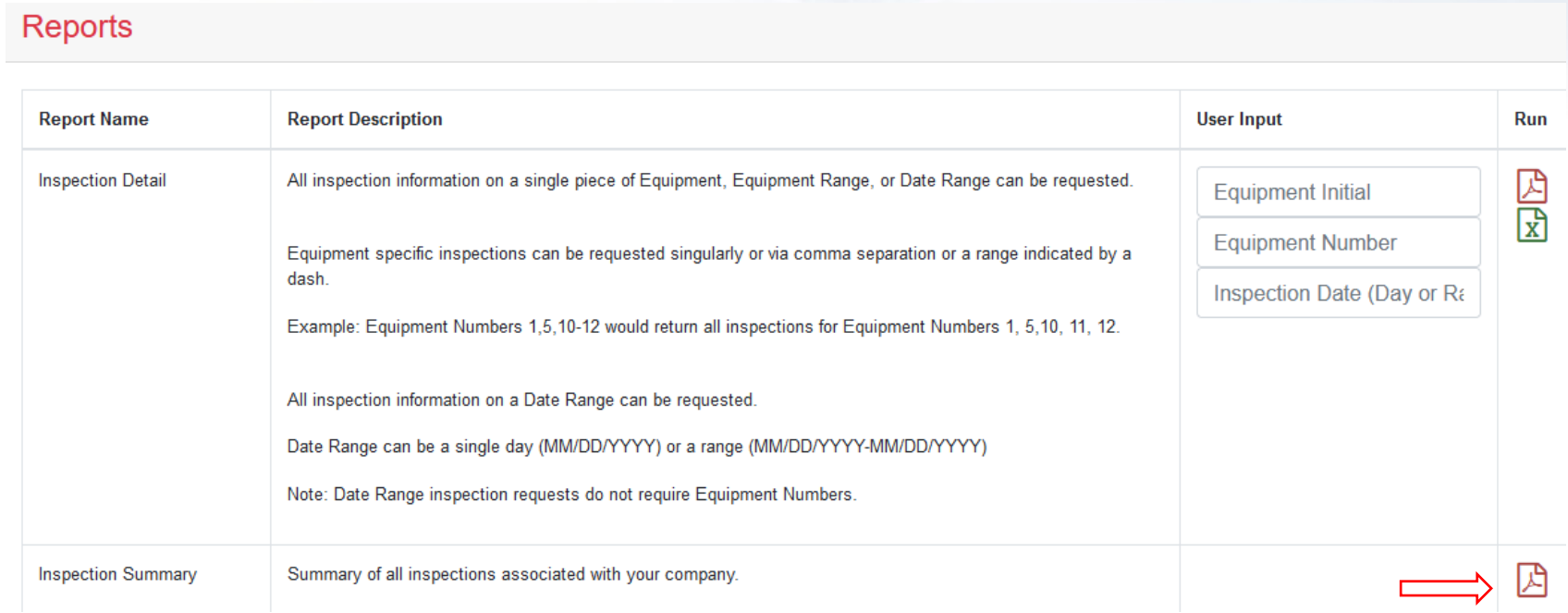
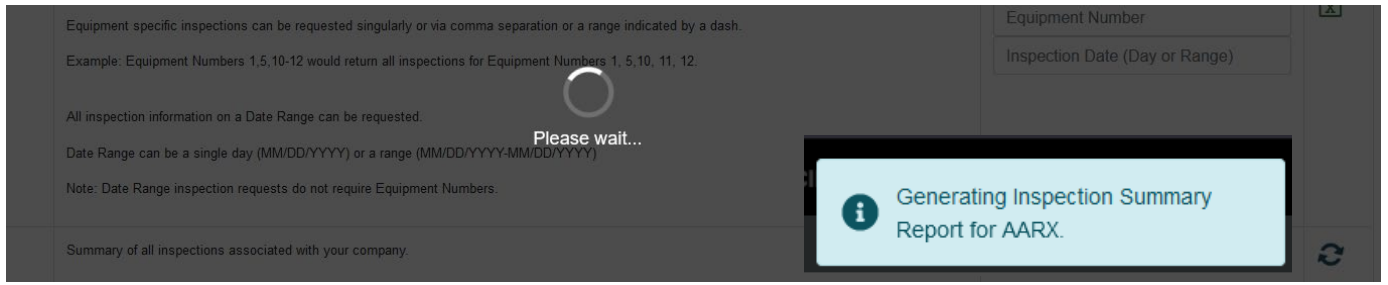
TCID Application

Reports >

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





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TCID Application

- Reports > Inspection Summary
  - PDF download

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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

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TCID Application

Reports >

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  - All submitted inspections
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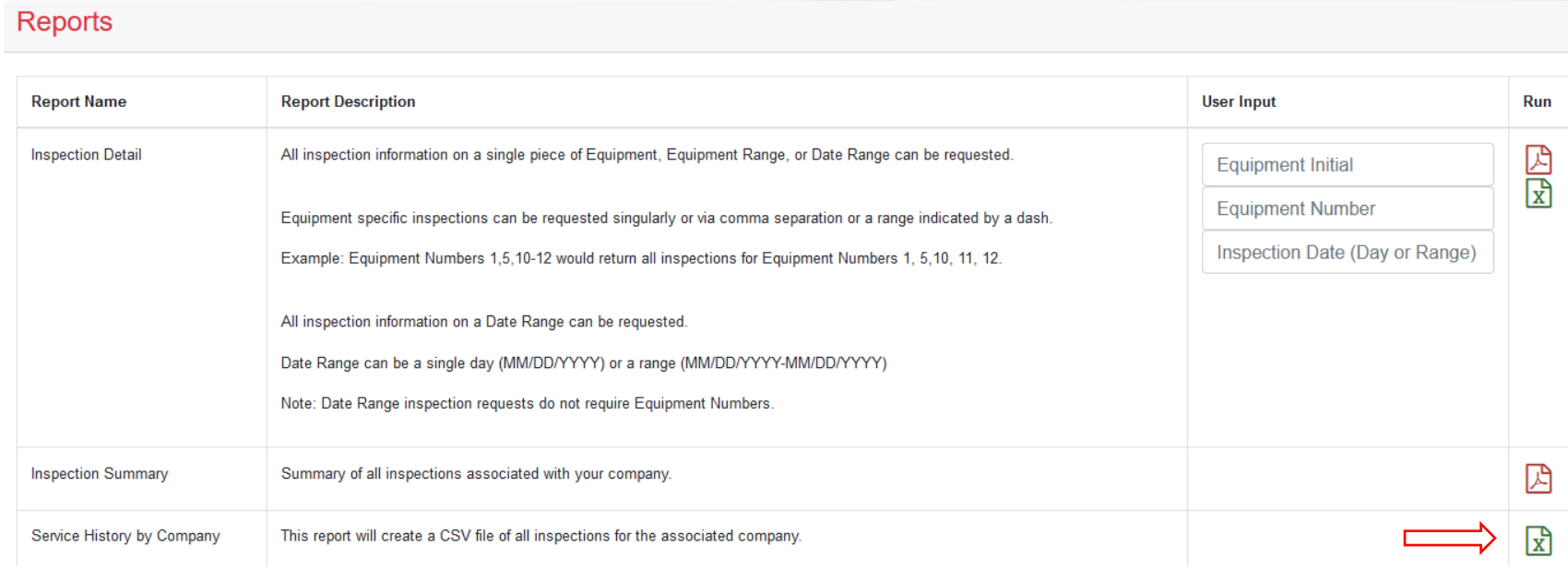

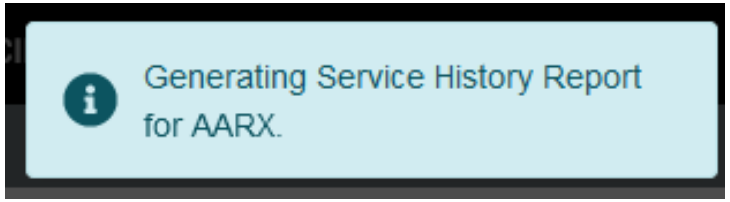

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TCID Application

- 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	BUILTDATI	CARMARK	CARNUM	CHANGE_(	CLASS	COMPART	COMPART	COMPART	COMPONI	CONSTRC/	DAMAGET	DEFECT_A	DEFECT_LI	DEFECT_O	DEFECT_O	DEFECT_O	DRAWING	DRAWING	FAILURE_(	FAILURE_T	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	1
4		TETX	19990102	AARX	8880		103ALW			1		105A100A	N/A			WFF	WFF	WFF						Grinding a	20230928		Defect(s)	[AE] Acou	32	
5																														

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TCID Application

Reminders

- 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

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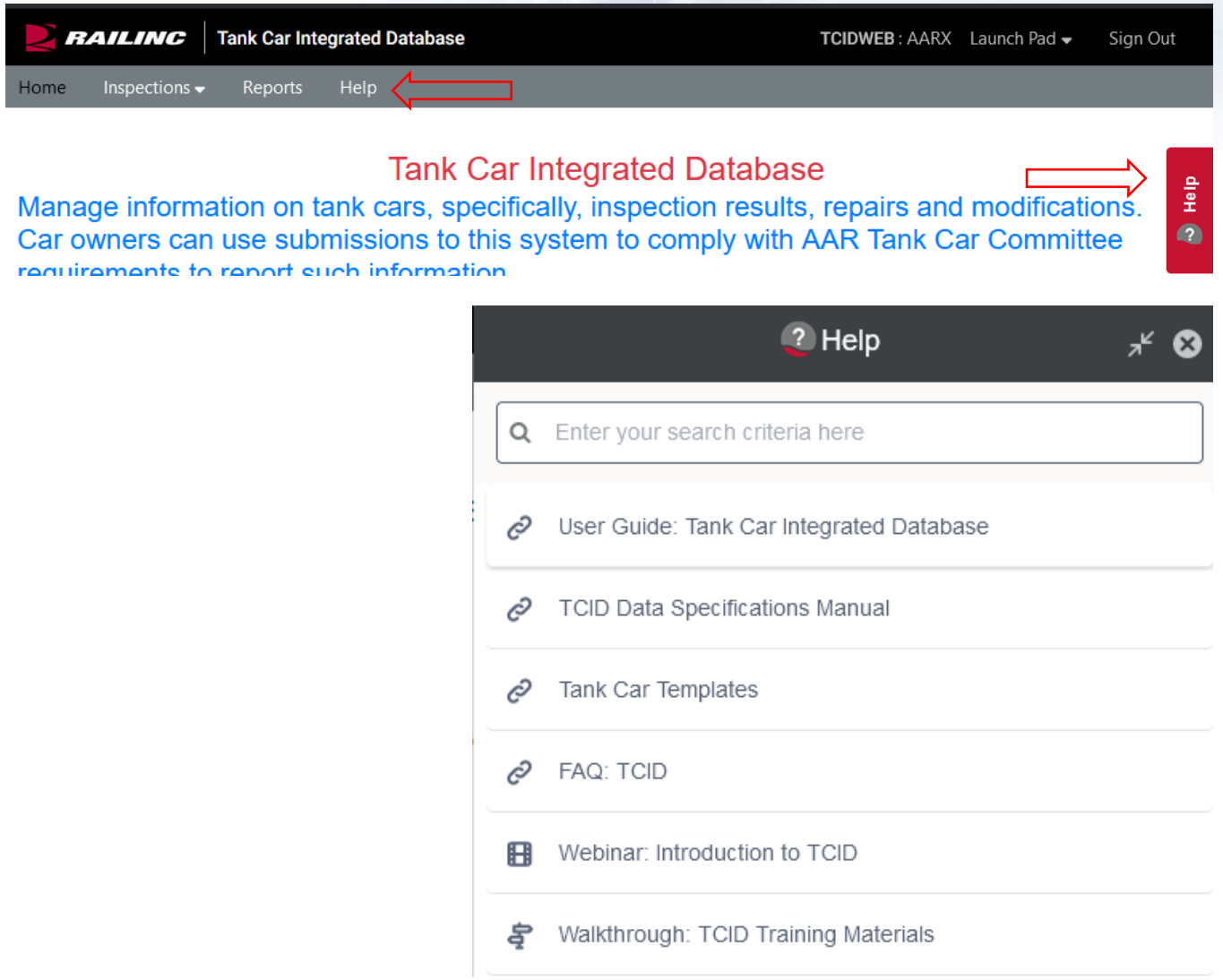
TCID Application

- Help



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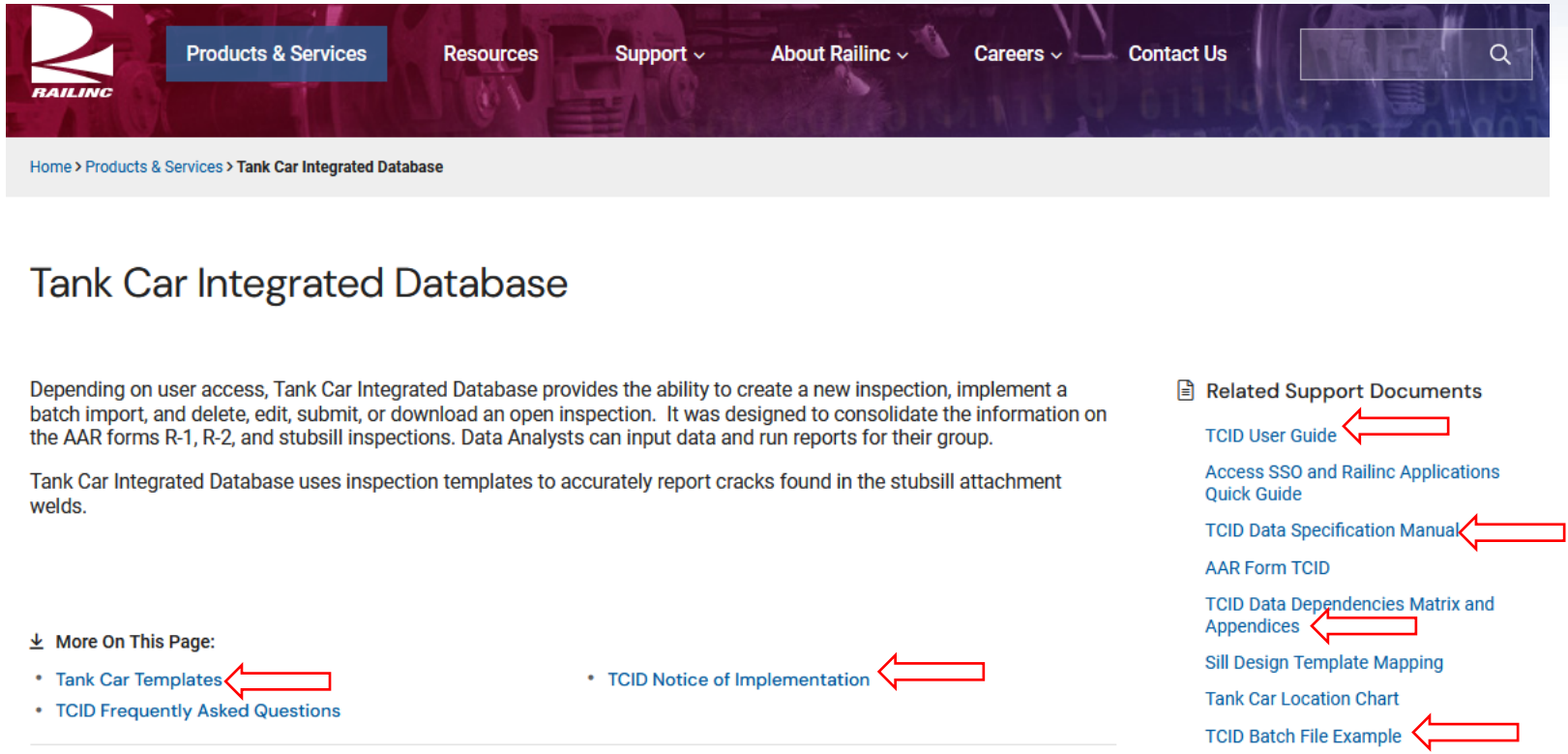
TCID Application

Help >

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



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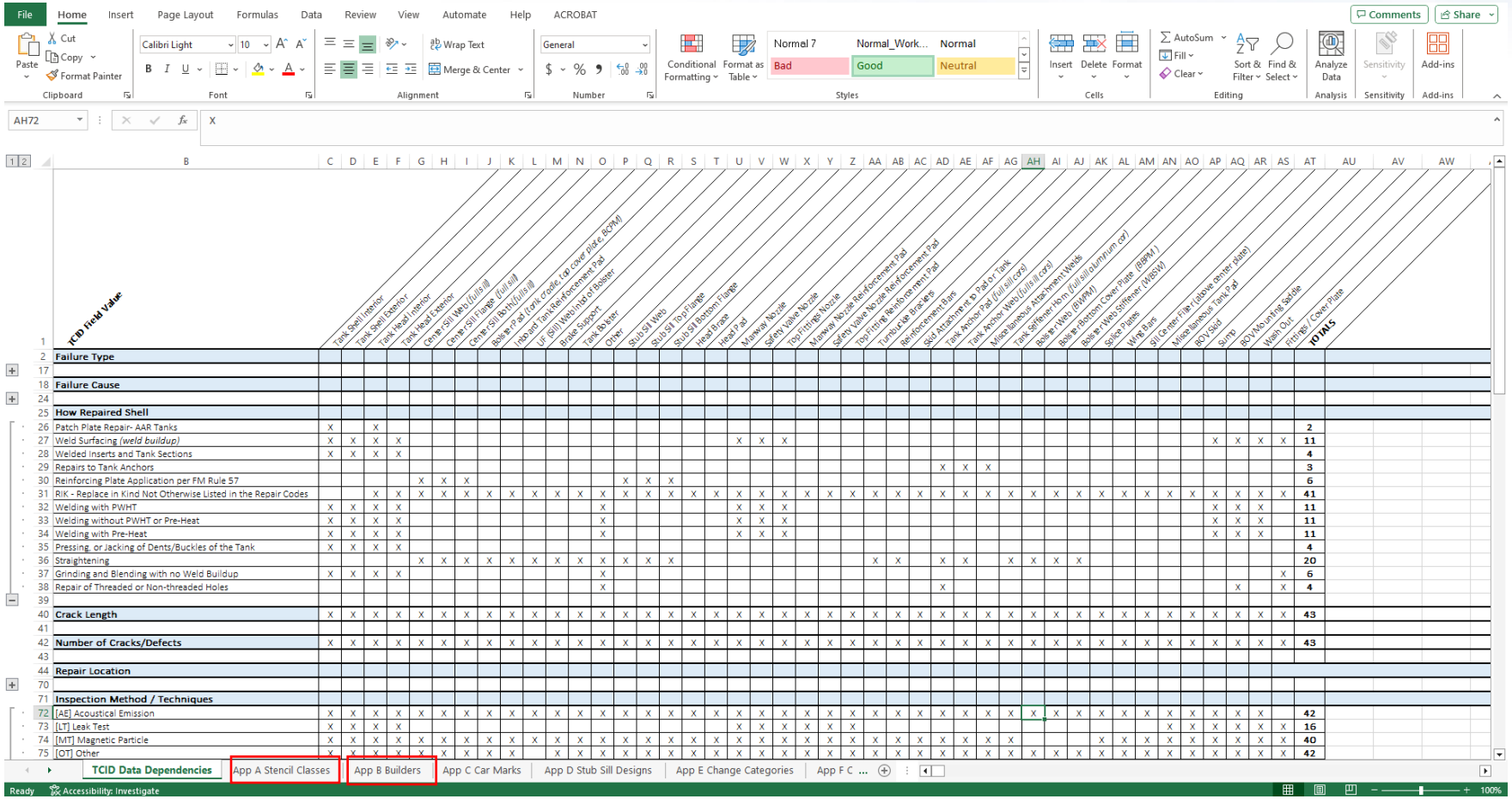
TCID Application

Help >

- TCID Data Dependencies Matrix



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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**

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Let Us Know Your Thoughts

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