

TCID Webinar

Presented by: Brian Childs,
Senior Business Analyst

Webinar agenda



- TCID background, planned releases
- TCID set up
 - SSO roles and permissions
 - User and company set up
- TCID application
 - Home, navigation
 - Inspections:
 - Batch Upload
 - Email notifications: Accepted, Rejected, Accepted with warnings
 - View Inspections
 - Statuses: Open, Re-open, Submitted
 - Actions: Edit/Delete, View/Unsubmit
 - New Inspection

Webinar agenda (cont.)



- TCID application (cont.)
 - Reports:
 - Inspection Detail
 - Inspection Summary
 - Service History by Company
 - Help and Documentation

Tank Car Integrated Database background



- Tank Car Integrated Database (TCID) is an application hosting a database of tank car inspection results, repairs and modifications for tank car owners to comply with AAR Tank Car Committee reporting requirements
- TCID was hosted by Sims Professional Engineers (SIMs PE). The RSI-AAR Railroad Tank Car Safety Research and Test Project made the decision to move TCID application and database from SIMs PE to Railinc take advantage of data sources and to enhance efficiency for tank car owners

TCID timing



- 2018 is Phase I – moving the TCID application to Railinc, database and documentation
- 2019 is Phase II
 - Possible EIN integration (leverage Umler), AAR dashboard, enhanced reports and filtering...
 - TCID TAG will continue
 - Tank car change requests will follow a more formal review process (similar to Umler docket process)
 - TCID will continue to follow Notices of Implementation (NOI) providing users advanced notice of changes including dates, change description, files affected and updated documentation

TCID release events



Planned Releases

- 2/12/19 – change warnings to errors
- 5/14/19 – change remaining warnings to errors

TCID data validations

Rule Validation Complexity	Moderate Rule Validation (Railinc Suggested)		
	Immediate	First change	Second change
TCID requirements - Data details			
Field length - Must meet minimum/maximum requirements as per Batch Upload Spec.	Error	Error	Error
Data type - Must meet alpha/numeric/alphanumeric requirements as per Batch Upload Spec.	Error	Error	Error
Required - Must be submitted as per Batch Upload Spec.	Error	Error	Error
Permissible values - If submitted must be valid value as per Batch Upload Spec. and Appendixes.	Error	Error	Error
Decision matrix data dependencies - If submitted must meet conditional rules as per Batch Upload Spec., Appendixes and Data Dependencies Matrix.	Warning	Error	Error
Conditionally required - If submitted must meet conditional rules as per Batch Upload Spec., Appendixes and Data Dependencies Matrix.	Warning	Error	Error
Conditionally required for Drawing, Weld and Sill sections - If any field in a section is submitted then all (most) fields should also be required as per Batch Upload Spec., Appendixes and Data Dependencies Matrix.	Warning	Warning	Error
Time option 2	11/13/18	2/12/19	5/14/19
# days between dates		92 days	92 days (183 days)

Launch Pad > View/Request Permissions



Tank Car Integrated Database (TCID)

Preprod module for Tank Car Inspection Application

1 Select Roles

2 Confirm

3 Done

Tank Car Inspection 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.

Tank Car Inspection Company Administrator ([MARK required](#))

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.

Tank Car Inspection Facility User ([MARK required](#))

Facility specific user to access the web application. This permission allows the user to input data and view their own submissions.

Tank Car Inspection Owner Delegate ([MARK required](#))

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 user and company set up (cont.)



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

TCID user and company set up



User SSO roles (cont.)

- 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 user and company set up (cont.)



User SSO roles (cont.)

- 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 user and company set up (cont.)



Example: Third party vendor (TPV) working on behalf of another company/companies

- TPV creates or uses existing Railinc SSO ID
- TPV requests TCID Facility User role for the company/companies they'll work on behalf of
- TCID Company Administrator for that company grants or declines TPV request
- Once approved TPV with TCID Facility User access can submit on behalf of company/companies
- TCID Owner Delegate role(s) for that company sees TPV submissions

TCID user and company set up (cont.)



Mapping inspections: User with historical TCID inspections from SIMs PE to Railinc

- When requesting TCID access *include SIMs user ID(s)/email addresses in the comments field*
- Railinc will find inspections associated with your old SIMs ID & map them to your Railinc ID
- Once mapped, historical inspections should appear (of Status = Submitted & Open)

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
 - Companies without an existing mailbox can work with CSC
- FindUs.Rail (FUR)
 - Needed to receive email notifications on FTP submissions
 - FindUs.Rail information is available [online](#)
 - SSO users set up in FUR can add TCID category

TCID application



Launch Pad

RAILINC | Launch Pad UMLER1BC : RAIL - RAILINC CORPORATION [Contact Us](#) | [Sign Out](#)

Your Applications

- FindUs.Rail
- SharePoint Communities - Demo Site
- Tank Car CoC
- Tank Car Integrated Database (TCID)**
- Umler Maintenance
- Umler Release
- UMLER/EMIS Training

Your Notifications

[Current Notifications](#) [Past Notifications](#)

Date	Subject
11/27/2018	Railinc Product Satisfaction Survey Now Open

My Support Cases

[Your Open Cases](#) [All Your Cases](#) [Search Your Cases](#)

Case #	Last Updated	Title	Status
There are no matching cases.			

Customer Support 1-877-RAILINC
Support Hours: Monday - Friday, 0700 - 1900 Eastern Time [Create a New Case](#)

User Services

[Edit My Profile](#)

TCID application

Review the application, each menu item

- Screenshots from Railinc's test environment with test data



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

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TCID application

Home

- Logging in, SSO ID
- Access to multiple companies with the a single SSO ID



The screenshot shows the web interface for the 'Tank Car Integrated Database'. At the top, the RAILINC logo is on the left, and the text 'Tank Car Integrated Database' is in the center. On the right, the user 'UMLER1BC' is logged in, with a dropdown menu showing options for 'RAIL', 'CN', 'RAIL', and 'KCS'. The 'RAIL' option is currently selected. To the right of the dropdown are links for 'Launch Pad' and 'Sign Out'. Below the header is a navigation bar with 'Home', 'Inspections', 'Reports', and 'Help'. The main content area has a heading 'Tank Car Integrated Database' and a paragraph: '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.' Below this is a list of system capabilities: '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'. At the bottom, there is a footer with links for 'Legal Notices', 'Privacy Rights', 'Contact Us', and 'Terms of Service', and a copyright notice: 'Copyright 2018 Railinc® All rights reserved.' Two red arrows point from the text on the left to the user name and the dropdown menu in the screenshot.

TCID application



Inspections>

New Inspections

View Inspections

Batch Upload

TCID application



Inspections>

Batch Upload

- Choose a file
 - browser window opens
 - must be CSV file in correct format
- Upload file

RAILINC Tank Car Integrated Database

UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Batch Upload

Choose a .csv file to upload Choose File TCID_batch...sample.csv

Upload File

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TCID application



Inspections>

Batch Upload

- File upload status
 - Blue = in progress
 - Green = success

RAILINC | Tank Car Integrated Database

UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Batch Upload

Choose a .csv file to upload Choose File No file chosen

Upload File

Uploading 'TCID_batchFile_sample.csv'

'TCID_batchFile_sample.csv' uploaded successfully.

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TCID application

Batch Upload>

Email notification

Accepted – submitted

Submission details

- Subject: Title with filename
- File Name: file submitted
- Date Submitted: submitted timestamp

Inspections

- Total = total submitted
- Accepted = total accepted
- Rejected = total rejected

noreply@railinc.com | Childs, Brian 1:53 PM

TST: TCID Batch File Submission Report: TCID_batchFileExample_allFields.csv

Retention Policy | Inbox - Delete older than 90 days (90 days) Expires 2/25/2019

TCID Batch File Submission Report
FileName: TCID_batchFileExample_allFields.csv
Date Submitted: 2018-11-27 13:52:52

Inspections: Total = 2, **Accepted = 2**, Rejected = 0.

TCID application



Batch Upload >

Email notification

Rejected – not submitted

Submission details

- Field Name: as listed in application and [BatchFile]
- Field Value: data submitted
- Error Type:
 - Error (reject)
- Error Message: description

noreply@railinc.com | Childs, Brian | 1:49 PM

TST: TCID Batch File Submission Report: TCID_batchFile_sample.csv

Retention Policy | Inbox - Delete older than 90 days (90 days) | Expires 2/25/2019

TCID Batch File Submission Report
FileName: TCID_batchFile_sample.csv
Date Submitted: 2018-11-27 13:49:07

Inspections: Total = 2, Accepted = 0, Rejected = 2.

Below errors/warnings were found within the file:

Inspection ID : 5566
Field Name : Last Tank Qual. Year [LASTTANKQUALYEAR]
Field Value: 1996
Error Type : ERROR
Error Msg : Last Tank Qual. Year [LASTTANKQUALYEAR] must be greater than 1996 and cannot be a future date.

Inspection ID : 5566
Field Name : Equipment Initial Number [CARMARK] [CARNUM]
Field Value: RAIL0000003434
Error Type : ERROR
Error Msg : Invalid Equipment Initial or Equipment Number provided.

Inspection ID : 5566
Field Name : Stub Sill Design Variation [STUBSILLDESIGNVARIATION]
Field Value: Continuous 1
Error Type : ERROR

TCID application



Batch Upload>

Email notification

Accepted – submitted with warnings

Submission details

- Same as for Failures but data is flagged as not compliant to rules
- Error Type:
 - Warning (accept)

noreply@railinc.com | Childs, Brian 2:25 PM

TST: TCID Batch File Submission Report: TCID_batchFileExample_allFields_warning.csv

Retention Policy | Inbox - Delete older than 90 days (90 days) Expires 2/25/2019

i This is the most recent version, but you made changes to another copy. Click here to see the other versions.

TCID Batch File Submission Report
FileName: TCID_batchFileExample_allFields_warning.csv
Date Submitted: 2018-11-27 14:24:39

Inspections: Total = 2, **Accepted = 2**, Rejected = 0.

Below errors/warnings were found within the file:

Inspection ID : 111
Field Name : Inspection Results [INSPECTION_RESULTS]
Field Value: null
Error Type : WARNING
Error Msg : Input value is invalid

Inspection ID : 111
Field Name : Weld Code [WELD_CODE]
Field Value: A6
Error Type : WARNING
Error Msg : Input value is invalid

TCID application



Batch Upload >

- Questions?

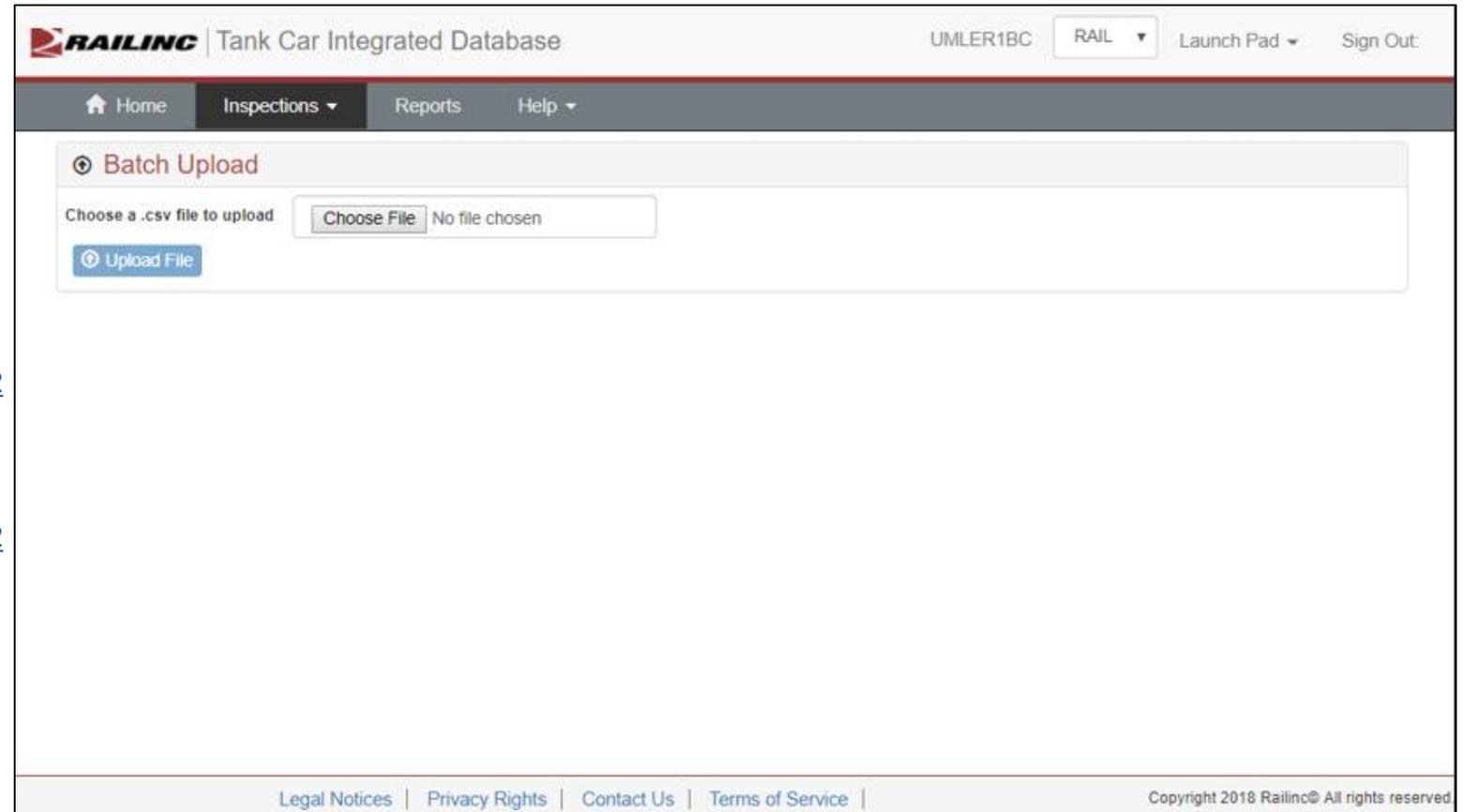
Data validation details are listed

- TCID Data Specification Manual

https://www.railinc.com/rportal/documents/18/1119521/TCID_DS.pdf

- TCID Data Dependencies Matrix

<https://www.railinc.com/rportal/documents/18/1119521/Data+Dependencies+Matrix.pdf>



TCID application



Inspections >

View Inspections

- Columns

- Equip Initial
- Equip Number
- Builder
- Miles
- Inspection Date
- Modified Date

The screenshot displays the RAILINC Tank Car Integrated Database interface. At the top, the RAILINC logo is on the left, and the user 'UMLER1BC' is logged in as 'RAIL'. Navigation links for Home, Inspections, Reports, and Help are visible. The main content area shows a table titled 'Inspections' with the following columns: Equip Initial, Equip Number, Builder, Miles (x1000), Inspection Date, Modified Date, Status, Actions, and Report. The table contains 9 rows of inspection data.

Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
GATX	12345	GSC	3	Mar 14, 2004	Mar 20, 2018, 8:...	Open	Edit/Delete	
BNSF	1	NACC	3	Mar 5, 2011	Aug 11, 2016, 9:...	Open	Edit/Delete	
RAIL	0000000050	UNKN	999	Nov 3, 2018	Nov 11, 2018, 4:...	Re-open	Edit/Delete	
GATX	0000038172	TRIN	271	Oct 8, 2018	Oct 31, 2018, 11:...	Re-open	Edit/Delete	
RAIL	0000000001	FCA	2	May 14, 2018	Oct 30, 2018, 9:4...	Re-open	Edit/Delete	
RAIL	0000000002	GATX	123	Jul 23, 2017	Oct 30, 2018, 8:4...	Re-open	Edit/Delete	
GATX	0000038172	TRIN	240	Sep 13, 2018	Nov 15, 2018, 3:...	Submitted	View/Unsubmit	
RAIL	0000000023	GMB	1000	Nov 7, 2018	Nov 15, 2018, 3:...	Submitted	View/Unsubmit	

At the bottom of the page, there are links for Legal Notices, Privacy Rights, Contact Us, and Terms of Service, along with a copyright notice for 2018 Railinc.

TCID application



Inspections>

View Inspections

- Columns (cont.)
 - Status
 - Actions
 - Report

RAILINC | Tank Car Integrated Database UMLER1BC Launch Pad Sign Out

Home Inspections Reports Help

Inspections

Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
<input type="text"/>	<input type="text"/>			<input type="text"/>	<input type="text"/>	<input type="text"/>		
GATX	12345	GSC	3	Mar 14, 2004	Mar 20, 2018, 8:...	Open	Edit/Delete	
BNSF	1	NACC	3	Mar 5, 2011	Aug 11, 2016, 9:...	Open	Edit/Delete	
RAIL	0000000050	UNKN	999	Nov 3, 2018	Nov 11, 2018, 4:...	Re-open	Edit/Delete	
GATX	0000038172	TRIN	271	Oct 8, 2018	Oct 31, 2018, 11:...	Re-open	Edit/Delete	
RAIL	0000000001	FCA	2	May 14, 2018	Oct 30, 2018, 9:4...	Re-open	Edit/Delete	
RAIL	0000000002	GATX	123	Jul 23, 2017	Oct 30, 2018, 8:4...	Re-open	Edit/Delete	
GATX	0000038172	TRIN	240	Sep 13, 2018	Nov 15, 2018, 3:...	Submitted	View/Unsubmit	
RAIL	0000000023	GMB	1000	Nov 7, 2018	Nov 15, 2018, 3:...	Submitted	View/Unsubmit	

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TCID application



Inspections >

View Inspections

- Columns (cont.)

- Statuses:

- Open
 - Re-open
 - Submitted

- Status sort order:

- Open
 - Re-open
 - Submitted

- Actions

- Edit/Delete
 - View/Unsubmit

RAILINC | Tank Car Integrated Database UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Inspections

Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
GATX	12345	GSC	3	Mar 14, 2004	Mar 20, 2018, 8:...	Open	Edit/Delete	
BNSF	1	NACC	3	Mar 5, 2011	Aug 11, 2016, 9:...	Open	Edit/Delete	
RAIL	0000000050	UNKN	999	Nov 3, 2018	Nov 11, 2018, 4:...	Re-open	Edit/Delete	
GATX	0000038172	TRIN	271	Oct 8, 2018	Oct 31, 2018, 11:...	Re-open	Edit/Delete	
RAIL	0000000001	FCA	2	May 14, 2018	Oct 30, 2018, 9:4...	Re-open	Edit/Delete	
RAIL	0000000002	GATX	123	Jul 23, 2017	Oct 30, 2018, 8:4...	Re-open	Edit/Delete	
GATX	0000038172	TRIN	240	Sep 13, 2018	Nov 15, 2018, 3:...	Submitted	View/Unsubmit	
RAIL	0000000023	GMB	1000	Nov 7, 2018	Nov 15, 2018, 3:...	Submitted	View/Unsubmit	

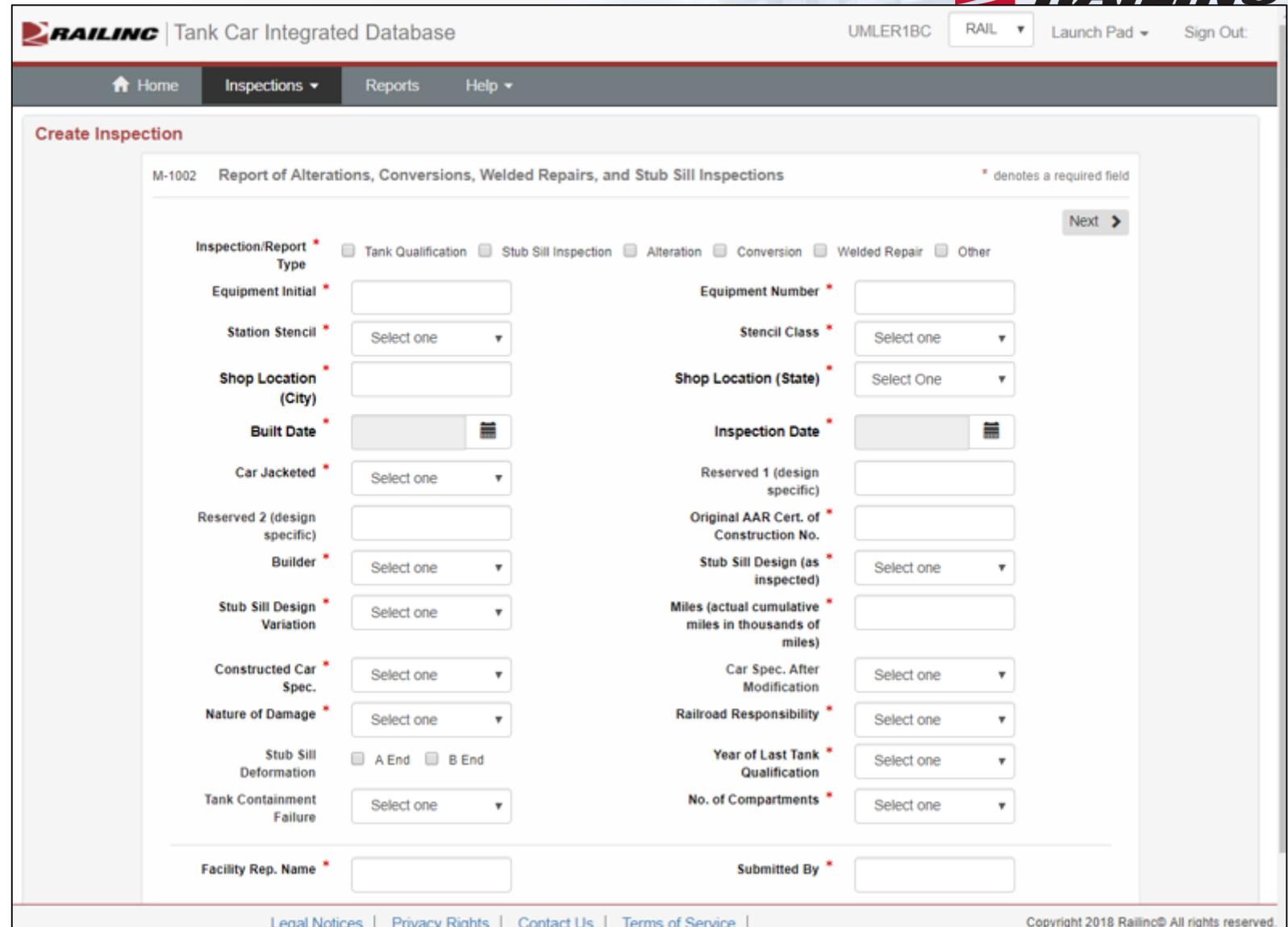
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TCID application

Inspections>

New Inspection

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



RAILINC Tank Car Integrated Database UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Create Inspection

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

Next >

Inspection/Report Type Tank Qualification Stub Sill Inspection Alteration Conversion Welded Repair Other

Equipment Initial

Equipment Number

Station Stencil

Stencil Class

Shop Location (City)

Shop Location (State)

Built Date

Inspection Date

Car Jacketed

Reserved 1 (design specific)

Reserved 2 (design specific)

Original AAR Cert. of Construction No.

Builder

Stub Sill Design (as inspected)

Stub Sill Design Variation

Miles (actual cumulative miles in thousands of miles)

Constructed Car Spec.

Car Spec. After Modification

Nature of Damage

Railroad Responsibility

Stub Sill Deformation A End B End

Year of Last Tank Qualification

Tank Containment Failure

No. of Compartments

Facility Rep. Name

Submitted By

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TCID application



Inspections >

New Inspection

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

The screenshot shows the RAILINC Tank Car Integrated Database (TCID) application interface. The header includes the RAILINC logo, the text "Tank Car Integrated Database", and user information: "UMLER1BC", "RAIL", "Launch Pad", and "Sign Out". The main navigation bar has "Home", "Inspections", "Reports", and "Help".

The "Inspections" section is active, showing a form for "New Inspection". The form includes the following fields and sections:

- Qualification:** "Tank Containment Failure" (dropdown menu set to "No") and "No. of Compartments" (dropdown menu set to "1").
- + Add Drawing Inspection:** A section with a table for "Alterations and Conversions". The table has columns: "Compartment No.", "Change Category", "Drawing No.", "AAR Approval Reference No.", "Comment", and "Actions". The table is currently empty, displaying "No drawings found".
- + Add Weld Inspection:** A section with a table for "Weld Inspection Results". The table has columns: "Compartment No.", "Inspection Results", "Weld Code", "Weld Location", "Inspection Technique", "No. of Cracks", "Max Crack Length (in.)", "Crack Orientation Code 1", "Crack Orientation Code 2", and "Crack Orientation Code 3". The table is currently empty, displaying "No Inspection Found".
- + Add Shell/Sill Damage:** A section with a table for "Shell/Sill Inspection Results". The table has columns: "Compartment No.", "Failed Component", "Failure Type", "Failure Cause", "How Repaired (Shell)", "Crack/Defect Length (in.)", "Repair Location", "Inspection Method", and "Actions". The table is currently empty, displaying "No Inspection Found".
- Facility Rep. Name:** A text input field with the placeholder "Facility Rep Name".
- Submitted By:** A text input field with the placeholder "Submitted By".

At the bottom of the form, there are three buttons: "Close", "Save Inspection", and "Submit Inspection".

The footer of the application includes "Legal Notices", "Privacy Rights", "Contact Us", "Terms of Service", and "Copyright 2018 Railinc® All rights reserved."

TCID application



Inspections>

New Inspection

- Saved inspections show as *Open* status
- Submitted inspections show as *Submitted*

Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
RAIL	0000000001	NACC	233	Nov 6, 2018	Nov 16, 2018, 9:...	Open	Edit/Delete	
RAIL	0000000084	ACF	83	Apr 30, 2018	Nov 11, 2018, 3:...	Open	Edit/Delete	
gatx	123456	GULF	121	Mar 4, 2013	Nov 7, 2018, 10:...	Open	Edit/Delete	
SHQX	9660	ARI	63	Oct 9, 2017	Sep 28, 2018, 3:...	Open	Edit/Delete	
gatx	123	GULF	12	Nov 19, 1999	Sep 24, 2018, 2:...	Open	Edit/Delete	
gatx	555	GULF	12	Jan 2, 2017	Sep 24, 2018, 11:...	Open	Edit/Delete	
gatx	147852	GULF	50	May 5, 2012	Aug 21, 2018, 1:...	Open	Edit/Delete	
gatx	147852	GUND	1	Nov 18, 2002	Aug 21, 2018, 11:...	Open	Edit/Delete	
gatx	345379	GULF	12	Feb 1, 2012	Aug 20, 2018, 6:...	Open	Edit/Delete	
gatx	147852	GUND	4	Feb 4, 2016	Aug 6, 2018, 2:3...	Open	Edit/Delete	
GATX	987	GENS	5	Apr 16, 2003	Apr 13, 2018, 9:0...	Open	Edit/Delete	

TCID application



Inspections>

View/Unsubmit Inspection

- Fields appear dithered to show detail
 - Scroll down to see actions

RAILINC Tank Car Integrated Database UMLER1BC **RAIL** Launch Pad Sign Out

Home Inspections Reports Help

View 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 Initial	RAIL	Equipment Number	000000023
Station Stencil	AEXBM	Stencil Class	103EW
Shop Location (City)	cary	Shop Location (State)	Delaware
Built Date	11/07/2018	Inspection Date	11/07/2018
Car Jacketed	No	Reserved 1 (design specific)	free
Reserved 2 (design specific)	rret45450161616161	Original AAR Cert. of Construction No.	L1495201
Builder	GMB - Greenbri	Stub Sill Design (as inspected)	ACF230
Stub Sill Design Variation	Continuous	Miles (actual cumulative miles in thousands of miles)	1000
Constructed Car Spec.	105A300W	Car Spec. After Modification	105A200W
Nature of Damage	Non-Accident	Railroad Responsibility	No
Stub Sill Deformation	<input type="checkbox"/> A End <input type="checkbox"/> B End	Year of Last Tank Qualification	2000
Tank Containment Failure	No	No. of Compartments	2

[+ Add Drawing Inspection](#)

Alterations and Conversions	Compartment No.	Change Category	Drawing No.	AAR Approval Reference No.	Comment	Actions
-----------------------------	-----------------	-----------------	-------------	----------------------------	---------	---------

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TCID application



Inspections>

View/Unsubmit Inspection

- Actions available
 - Close
 - Unsubmit
 - Delete

The screenshot displays the RAILINC Tank Car Integrated Database (TCID) application. The header includes the RAILINC logo, the text "Tank Car Integrated Database", and user information: "UMLER1BC", "RAIL", "Launch Pad", and "Sign Out". The navigation menu shows "Home", "Inspections", "Reports", and "Help".

The main content area is divided into several sections:

- Alterations and Conversions:** A table with columns: Compartment No., Change Category, Drawing No., AAR Approval Reference No., Comment, and Actions. One record is shown for compartment 2, category "Arrangement", drawing "25-6", and AAR approval "AAE23".
- + Add Weld Inspection:** A button to add a new weld inspection.
- Weld Inspection Results:** A table with columns: Compartment No., Inspection Results, Weld Code, Weld Location, Inspection Technique, No. of Cracks, Max Crack Length (in.), Crack Orientation Code 1, Crack Orientation Code 2, and Crack Orientation Code 3. One record shows "No exceptions found" for compartment 0.
- + Add Shell/Sill Damage:** A button to add a new shell or sill damage record.
- Shell/Sill Inspection Results:** A table with columns: Compartment No., Failed Component, Failure Type, Failure Cause, How Repaired (Shell), Crack/Defect Length (in.), Repair Location, Inspection Method, and Actions. One record is shown for compartment 2, failed component "Tank Shell Interior", failure type "Blister", failure cause "Corrosion", and repair method "Grinding and Blending with no Weld Buildup".

At the bottom of the form, there are input fields for "Facility Rep. Name" (containing "Kenya") and "Submitted By" (containing "Nami PBJ"). Below these fields are three buttons: "Close", "Unsubmit", and "Delete".

The footer contains "Legal Notices | Privacy Rights | Contact Us | Terms of Service" and "Copyright 2018 Railinc® All rights reserved."

TCID application



Inspections>

- Questions?

Reminder for historical inspections:

- Need SIMs ID with Railinc ID
- Railinc will map
- Will see inspections with Status = Submitted, Open

Blank AAR Form TCID:

<https://www.railinc.com/rportal/documents/18/1119521/AAR+Form+TCID.pdf>

Equip Initial	Equip Number	Builder	Miles (x1000)	Inspection Date	Modified Date	Status	Actions	Report
GATX	12345	GSC	3	Mar 14, 2004	Mar 20, 2018, 8...	Open	Edit/Delete	
BNSF	1	NACC	3	Mar 5, 2011	Aug 11, 2016, 9...	Open	Edit/Delete	
RAIL	0000000050	UNKN	999	Nov 3, 2018	Nov 11, 2018, 4...	Re-open	Edit/Delete	
RAIL	0000000001	FCA	2	May 14, 2018	Oct 30, 2018, 9:4...	Re-open	Edit/Delete	
RAIL	0000000002	GATX	123	Jul 23, 2017	Oct 30, 2018, 8:4...	Re-open	Edit/Delete	
RAIL	0000000001	UTLX	64	Jul 21, 2018	Nov 27, 2018, 2...	Submitted	View/Unsubmit	
RAIL	0000000001	V	123	Nov 23, 2017	Nov 27, 2018, 2...	Submitted	View/Unsubmit	
RAIL	0000000001	UTLX	64	Jul 21, 2018	Nov 27, 2018, 1...	Submitted	View/Unsubmit	

TCID application

Reports>

Inspection Detail

Inspection Summary

Service History by
Company



RAILINC | Tank Car Integrated Database UMLER1BC RAIL Launch Pad Sign Out

Home Inspections **Reports** Help

Reports

Report Name	Report Description	User Input	Run
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	Equipment Initial Equipment Number	
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.		

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TCID application



Reports>

- Inspection Detail

- Detail on a single inspection

- Enter

- Equipment Initial
- Equipment Number
- Select PDF icon

- Blue status box appears

RAILINC | Tank Car Integrated Database UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Reports

Report Name	Report Description	User Input
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	RAIL 0000000001
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 for 'RAIL0000000001'.

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InspectionDetail_R....pdf ^ Show all

TCID application

Reports >

- Inspection Detail
 - PDF download appears (browser dependent)

RAILINC | Tank Car Integrated Database UMLER1BC Launch Pad

Home Inspections **Reports** Help

Report Name	Report Description	User Input	Run
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	<input type="text" value="RAIL"/> <input type="text" value="0000000001"/>	
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.		

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InspectionDetail_R...pdf

TCID application

Reports>

• Inspection Detail

- PDF report
- Opens in new browser window
- Header with equip initial & number
- Inspection details
- If no data submitted, no data will appear

Tank Car Integrated Database x InspectionDetail_RAIL0000000001 x +

file:///C:/Users/itbxc01/Downloads/InspectionDetail_RAIL0000000001_20181126_161914.pdf

Yahoo RAPID PRV TCID TCOC Umler CA CA Agile Rail-dev Rail-tst Rail-prod Other bookmarks

RAILINC

TCID Tank Car Inspection Detail: RAIL0000000001

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

Date of Entry: 2018-11-15
Equip. Initial/No.: RAIL0000000001
Stencil Class: 114A340W
Built Date: 1997-12-01
Car Jacketed: 1
Reserved 2 (design specific):
Builder: UTLX
Stub Sill Design Variation: Continuous
Constructed Car Spec.: 114A340W
Inspect./Report Type: Tank Qualification
Railroad Responsibility: 1
Stub Sill Deformation (B End): 1
Tank Contain. Failure: 1
Facility Rep. Name: Facility Rep. Name

Station Stencil: P-173
Shop Location: CARY, NC
Inspection Date: 2018-07-21
Reserved 1 (design specific):
Original AAR Cert. No.: TST-01
Stub Sill Design (as inspected): FULL
Miles (x1000): 64
Car Spec. After Mod.: 114J400W
Nature of Damage: Accident
Stub Sill Deformation (A End): 0
Last Tank Qual Year: 2012
No. of Compartments: 1
Submitted By: Inspection Submitted By

Alterations and Conversions

Compartment No.	Change Category	Drawing Number	AAR Approval Ref. No.	Drawing Comments
-----------------	-----------------	----------------	-----------------------	------------------

Weld Inspection Results

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

InspectionDetail_R...pdf ^ Show all x

TCID application



Reports>

- Inspection Summary
 - All submitted inspections
 - as Owner Delegate see all for company
 - as Facility see all user submitted
 - Select PDF icon
 - Blue = in progress

RAILINC | Tank Car Integrated Database UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Reports

Report Name	Report Description	User Input
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	Equipment Initial Equipment Number
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 Summary Report for RAIL.

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TCID application

Reports>

- Inspection Summary
 - PDF download appears (browser dependent)

RAILINC | Tank Car Integrated Database

UMLER1BC RAIL Launch Pad Sign Out

Home Inspections **Reports** Help

Reports

Report Name	Report Description	User Input	Run
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	Equipment Initial Equipment Number	
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.		

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InspectionSummar....pdf ^ Show all X

TCID application

Reports>

- Inspection Summary
 - PDF report
 - Header with company
 - List of submitted inspections

InspectionSummary_RAIL_20181126_162938.pdf 1 / 3

RAILINC

TCID Inspections Summary: RAIL

Equip Initial	Equip No.	Submitted By	Last Modified	Inspection Status
GATX	0000038172	UMLER1BC	2018-11-15 15:24	Submitted
RAIL	0000000023	UMLER1BC	2018-11-15 15:21	Submitted
GATX	0000038172	TCID_SYSTEM	2018-11-15 14:45	Submitted
GATX	0000038172	UMLER1BC	2018-11-15 14:45	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-15 14:42	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-15 14:42	Submitted
RAIL	0000000001	UMLER1BC	2018-11-15 14:41	Submitted
RAIL	0000000001	UMLER1BC	2018-11-15 14:41	Submitted
RAIL	0000000001	UMLER1BC	2018-11-12 08:59	Submitted
RAIL	0000000001	UMLER1BC	2018-11-12 08:59	Submitted
RAIL	0000005000	TERRYCAU	2018-11-12 08:37	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-12 08:09	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-12 08:06	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-12 08:04	Submitted
GATX	0000211112	TCID_SYSTEM	2018-11-12 08:01	Submitted
GATX	0000211112	TCID_SYSTEM	2018-11-12 08:00	Submitted
GATX	0000211112	TCID_SYSTEM	2018-11-11 16:57	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-11 16:57	Submitted
RAIL	0000000001	TCID_SYSTEM	2018-11-11 16:57	Submitted
GATX	0000211112	NamKam	2018-11-09 10:32	Submitted
RAIL	0000000001	NamKam	2018-11-09 10:28	Submitted
GATX	0000038172	TERRYCAU	2018-11-09 10:25	Submitted
GATX	0000038172	TERRYCAU	2018-11-09 10:21	Submitted
GATX	0000038172	TERRYCAU	2018-11-09 10:14	Submitted

TCID application



Reports>

- Service History by Company

- All submitted inspections
 - as Owner Delegate see all for company
 - as Facility see all user submitted
- Select XLS icon
- Blue = in progress
- Green = success

RAILINC | Tank Car Integrated Database

UMLER1BC RAIL Launch Pad Sign Out

Home Inspections Reports Help

Report Name	Report Description	User Input
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	Equipment
Inspection Summary	Summary of all inspections associated with your company.	Equipment
Service History by Company	This report will create a CSV file of all inspections for the associated company.	

Generating Service History Report for RAIL. Report will be sent to your email once it's complete.

Service History Report for 'RAIL' generated and emailed successfully.

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TCID application



Reports>

- Service History by Company

- Email to user
- Subject lists report & filename
- CSV file attached

A screenshot of an email interface. At the top, the sender is 'noreply@railinc.com' with a profile picture of a grey circle containing the letter 'N'. To the right, it says 'Childs, Brian' with a green checkmark. The subject line is 'TST: TCID Service History by Company Report: TcidServiceHistory_RAIL_2018-11-26.csv'. Below the subject, it shows 'Retention Policy: Inbox - Delete older than 90 days (90 days)' and 'Expires: 2/24/2019'. A blue information icon is followed by the text: 'This is the most recent version, but you made changes to another copy. Click here to see the other versions.' Below this is a file attachment card for 'TcidServiceHistory_RAIL_2018-11-26.csv' with a size of '65 KB' and a green Excel icon. The email body contains the following text: 'TCID Service History by Company Report: TCID Batch File Submission Report', 'FileName: TcidServiceHistory_RAIL_2018-11-26.csv', 'Date Submitted: 2018-11-26 16:41:11', and 'Attached please find the Service History by Company Report csv file.' Two red arrows point from the left side of the slide to the sender's profile picture and the file attachment card.

TCID application



Reports>

- Service History by Company
 - CSV opens in Excel
 - Partial file shown

	A	B	C	D	E	F	G	H	I
1	APPROVAL_REFERENCE	BUILDER	BUILDDATE	CARMARK	CARNUM	CHANGE_CATEGORY	CLASS	COMPARTMENT_NO_CHANGE	COMPARTMENT_NO_SHELL
2		TRIN	28/02/1997	GATX	38172		111A100W1		0
3		TRIN	28/02/1997	GATX	38172		111A100W1		0
4		TRIN	28/02/1997	GATX	38172		111A100W1		0
5		TRIN	28/02/1997	GATX	38172		111A100W1		0
6		TRIN	28/02/1997	GATX	38172		111A100W1		0
7		TRIN	28/02/1997	GATX	38172		111A100W1		0
8		TRIN	28/02/1997	GATX	38172		111A100W1		0
9		TRIN	28/02/1997	GATX	38172		111A100W1		0
10	AAE23	GMB	7/11/2018	RAIL	23	Arrangement	103EW	2	2
11	N/A	TRIN	1/4/1993	GATX	38172	Assembly	111A100W1	0	0
12	N/A	TRIN	1/4/1993	GATX	38172	Assembly	111A100W1	0	0
13	N/A	TRIN	1/4/1993	GATX	38172	Assembly	111A100W1	0	0

TCID application



Reports>

- Questions?

RAILINC | Tank Car Integrated Database UMLER1BC RAIL Launch Pad Sign Out

Home Inspections **Reports** Help

Reports

Report Name	Report Description	User Input	Run
Inspection Detail	Most recent submitted inspection for a specific tank car associated with the company.	Equipment Initial Equipment Number	
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.		

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TCID application



Help>

- Documentation
- Notice of Implementation
- Templates

The screenshot shows the RAILINC Tank Car Integrated Database (TCID) application interface. The header includes the RAILINC logo, the title "Tank Car Integrated Database", and user information: "UMLER1BC", a "RAIL" dropdown menu, "Launch Pad", and "Sign Out". The main navigation bar has "Home", "Inspections", "Reports", and "Help" (selected). The "Help" dropdown menu is open, showing "Documentation", "Notice of Implementation", and "Templates". The main content area features a search bar, a heading "Tank Car Integrated Database", and a paragraph: "Manage information on tank cars, specifications, 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." Below this, it states "The system allows:" followed by a list: (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, and (c) Car owners to transfer car inspection history to buyers when selling cars. The footer contains "Legal Notices | Privacy Rights | Contact Us | Terms of Service" and "Copyright 2018 Railinc® All rights reserved."

TCID application

Help>

- Opens in a separate browser window
- Has all TCID related documentation
- All available on Railinc.com

<https://www.railinc.com/rportal/tank-car-integrated-database>

The screenshot shows a web browser window with two tabs. The active tab is titled "Tank Car Integrated Database" and displays the URL <https://wwwst.railinc.com/rportal/tank-car-integrated-database>. The browser's address bar and navigation icons are visible. Below the browser window, the Railinc logo is displayed. The main content area features a navigation menu with items like "About Us", "Working With Railinc", "Products & Services", "Careers", "Contact Us", and "Customer Login". The breadcrumb trail reads "Railinc // Products & Services // All Products // Industry Products // Tank Car Integrated Database". The page title is "Tank Car Integrated Database". The main content area is divided into two columns. The left column, titled "Industry Products", lists various services such as AskRail, Asset Health Data Summaries, Asset Health Strategic Initiative, Car Hire, Car Repair Billing, Clear Path System, Component Tracking, Damaged and Defective Car Tracking, Early Warning, Embargoes, Equipment Health Management System, Equipment Health View, Equipment Quality Reporting, Forward and Store, Freight Loss Data Exchange, and ISA Repository. The right column, titled "Related Links", lists documents like TCID User Guide, TCID Data Specification Manual, TCID FAQ, Tank Car Templates, AAR Form TCID, TCID Data Dependencies Matrix, Sill Design Template Mapping, Stub Sill Design Reporting Matrix, Tank Car Location Chart, TCID Notice of Implementation, and TCID Batch File Example. Red arrows point from the browser tabs to the page title and from the "Damaged and Defective Car Tracking" link in the left column to the "Related Links" section.

TCID application

Help>

• Questions?

TCID issues/questions

- Call CSC (Customer Success Center):
1-877-RAILINC
- Email: csc@railinc.com



A screenshot of the RAILINC website's 'Tank Car Integrated Database' page. The page has a black header with the RAILINC logo and a navigation menu with links for 'About Us', 'Working With Railinc', 'Products & Services', 'Careers', 'Contact Us', and 'Customer Login'. Below the header is a breadcrumb trail: 'Railinc // Products & Services // All Products // Industry Products // Tank Car Integrated Database'. The main content area is split into two columns. The left column is a sidebar with a 'Industry Products' section containing a list of links: AskRail, Asset Health Data Summaries, Asset Health Strategic Initiative, Car Hire, Car Repair Billing, Clear Path System, Component Tracking, Damaged and Defective Car Tracking, Early Warning, Embargoes, Equipment Health Management System, Equipment Health View, Equipment Quality Reporting, Forward and Store, Freight Loss Data Exchange, and ISA Repository. The right column features the title 'Tank Car Integrated Database' in a large, dark red font. Below the title is a paragraph of text: '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. Data Analysts can input data and run reports for their group.' This is followed by another paragraph: 'Tank Car Integrated Database uses inspection templates to accurately report cracks found in the stub sill attachment welds.' Below this text is a section titled 'Related Links' with a bulleted list of links: TCID User Guide, TCID Data Specification Manual, TCID FAQ, Tank Car Templates, AAR Form TCID, TCID Data Dependencies Matrix, Sill Design Template Mapping, Stub Sill Design Reporting Matrix, Tank Car Location Chart, TCID Notice of Implementation, and TCID Batch File Example.

Questions?



Railinc Keeps You Moving.

Railinc Customer Success Center

1-877-RAILINC

csc@railinc.com

