



# Early Warning Rewrite Webinar - New Equipment Advisory System

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June 3, 2021



# Equipment Advisory Agenda

- June 28, 2021
- High level primary benefits
- Mapping the functionality of the current Early Warning System to the new Equipment Advisory System
- Things to know for go live
- Timeline

# Early Warning Rewrite

- June 28, 2021
  - The Early Warning System will be retired
  - The New Equipment Advisory System will go live
  - Revised Field and Office Manuals Rule 125 will be implemented and effective via circular

# Equipment Advisory System

- Primary benefits include:
  - Enhanced usability of the create process, reducing supplements
  - The ability to view all cars on an advisory
  - Removal of the need for duplicate advisories
  - Simplified severity and activity codes
  - The ability to prioritize/escalate individual equipment on a single advisory
  - Improved equipment handling with new advisories types
  - The ability to refresh Equipment Advisory messages

# Existing Early Warning System Functionality

- Two types of notices
  - Maintenance Advisory
  - Early Warning
- Severity Codes
  - Assigned at the Notice level
- Escalation
  - Assigned at the Notice level
  - All equipment escalates simultaneously
- Multiple notices released for the same issue
- Messaging
  - TRAIN II messaging is difficult to change and maintain
- Large number of equipment
  - Manual process of throttling equipment onto notices

# New Equipment Advisory Functionality

- Three types of notices
  - Equipment Instructions (EI)
  - Informational Notice (IN)
  - Special Handling (SH)
- Severity Codes
  - Assigned to equipment
- Escalation
  - Identified in Advisory
  - Each equipment escalates independently
- No need for multiple notices released for the same issue
- Messaging
  - XML, allows for expanded capabilities
- Large number of cars
  - Automate processes to throttling cars onto notices
- Additional Enhancements
  - Location on car
  - AAR streamlined workflow
  - Private Advisories
  - On-Demand Advisory and/or Equipment message refresh

# New Field Manual Rule 125.A Equipment Advisories

- Equipment Advisories created by AAR/TTCI with input from industry
  - Equipment Instructions (EI)
    - ABT, Reflectorization
    - Most current EW/MAs
  - Special Handling (SH)
    - Tank Car Overdue for compliance
    - Test Cars requiring action, approved waiver
    - Car Approaching End of Life status
  - Informational Notice (IN)
    - DDCT
    - Test cars requiring no action

# Notice to Advisory Mapping

## Existing Notices

EW – Early Warning

MA – Maintenance Advisory

## New Advisories

**Special Handling (SH)**

- Tank Car Overdue Compliance
- Test Cars/Test Components

**Equipment Instructions (EI)**

- EW/MA
- Air Brake Test
- Reflectorization
- LTCCSB

**Informational Notice (IN)**

- DDCT Notices
- Car Note



# Field Manual Rule 125.B Severity Levels

- Advisory can hold multiple severity levels
  - XX – Restricted at Interchange
  - A1 – Cause for attention at any time
  - A2 – Cause for attention when car is on shop or repair track for any reason
  - A3 – As Noted in Advisory
  - A9 – Information only
- Equipment Instruction (EI):  
A3, A2, A1, XX
- Special Handling (SH):  
A3, A2, A1, XX
- Informational Notice (IN):  
A9

# Severity Levels Mapping

## EW/MA Severity Levels

XX – Restricted in Interchange

1 – Stop car, loaded or empty, do not move  
2 – Stop car, loaded or empty, transfer load  
3 – Stop car, loaded or empty, inspect  
6 – AAR Defined

4 – Withhold empty car from loading-contact owner  
5 – Withhold empty car from loading-inspect  
6 – AAR Defined

6 – AAR Defined

6 – AAR Defined (DDCT)

## Equipment Advisory Severity Levels

XX – Restricted in Interchange

A1 – Cause for attention at any time

A2 – Cause for attention when car is on shop or repair track for any reason

A3 – As Noted in Advisory

A9 – Information Only

# Examples of Notice to Advisory Conversion

## Existing Notices

MA-0063 Cars Overdue for Periodic Air Brake Testing as of November 1, 2000

EW-5171 Cars Overdue for Periodic Air Brake Testing as of February 1, 2001

EW-5299 Reflectorization

EW-5310 Cars Equipped with Grandfathered Reflective Material

EW-5313 Active Cars Not Equipped with Reflective Material

MA-0152 Reflectorization

## New Advisories

Equipment Instructions (EI-0001)

- Cars Due or Overdue for Periodic Air Brake Testing
- Severity A2 and A1

Equipment Instructions (EI-0006)

- Reflectorization
- Severity XX

# Simplified Activity Codes

## EW/MA

Activity Code	Definition		EW Status
MB	Early Warning cancelled by the AAR.		Final
MC	Car inspected; return car to service; continued inspections required.		Open
ME	Car inspected and moving to shop.		Open
MF	The final inspection MH or MR was reported in error; revert car to prior severity code. MF can only be reported by the reporter of the prior activity code or the AAR.		Open
MH	Activity Code	Definition	MA Status
MI			
MN	MC	Car inspected; return car to service; continued inspections required.	Open
MP	ME	Car inspected and moving to shop.	Open
	MF	The final inspection MH or MR was reported in error; revert car to prior severity code. MF can only be reported by the reporter of the prior activity code or the AAR.	Open
MR	MH	Car repaired; return to service.	Final
	MI	Car deleted from Umler; reported by the AAR.	Final
MW	MK	Maintenance Advisory cancelled by the AAR	Final
	MN	Car incorrectly added to MA or upgraded to another EW; reported by the AAR.	Final
MY	MP	The prior preliminary inspection ME/MC was reported in error; revert car to prior severity code. MP can only be reported by the reporter of the prior activity code or the AAR.	Open
	MR	Car inspected; return car to service; no continued inspection required.	Final
	MY	Car moved from MA to EW. MY can only be reported by the AAR.	Final

## Equipment Advisory

Activity Code	Definition	Advisory Status
MH	Car inspected, defect found, repaired and returned to service.	Close
MR	Car inspected, no defect found, and returned to service.	Close
MO	Car inspected, does not meet the requirements of the Advisory.	Close
ME	Car inspected, defect found, and owner contacted for disposition through DDCT. Moving to shop for attention.	Open
MW	Car inspected; defect found; to be dismantled.	Open
MZ	Car inspected; moving unrepaired for unloading.	Open
MP	An Activity Code was reported in error.	Open
	The Activity Code is nullified, and the car is reverted to prior severity code. A nullification can only be reported by the reporter of the prior activity code or the AAR.	
Activity Code	Definition (AAR Use Only)	Advisory Status
MB	Advisory cancelled by AAR.	Close
MI	Car deleted from Umler.	Close
MN	Car incorrectly added to Advisory.	Close

- New Field Manual Rule 125.C

## Field Manual Rule 125.D-H

- D. Equipment Alerts (See Office Manual Rule 89)
- E. Severity Code Escalation Process. (See Office Manual)
- F. Prioritizing Cars For Escalation (See Office Manual)

## Office Manual Rule 125.A-D

- A. Equipment Advisory (See Field Manual)
- B. Equipment Advisory Initialization (See Field Manual)
- C. Equipment Advisory Action (See Field Manual)
- D. Equipment Alerts (See Office Manual Rule 89)

# Office Manual Rule 125.E Severity Code Escalation Methods

- 3 Methods of Escalation
  - Duration
    - Cars may escalate based on specified time period. In this case all cars will escalate individually based on the date assigned a Severity Code.
  - Interval
    - A specified number of cars may be escalated at defined intervals.
  - Replenish
    - Cars may be escalated based on a specified number of cars allowed to be assigned to a Severity Code.

## Escalation Method - Duration

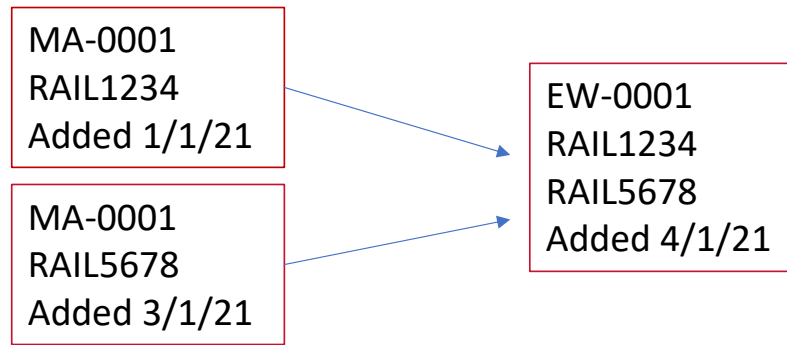
- Example: 1 year at A2, 90 days at A1

<b>Equipment ID</b>	<b>Initial Assignment to A2</b>	<b>Escalation to A1</b>	<b>Escalation to XX</b>
ABC 12345	February 1, 2021	February 1, 2022	May 1, 2022
ABC 34567	February 14, 2021	February 14, 2022	May 14, 2022
XYZ 25689	April 22, 2021	April 22, 2022	July 22, 2022

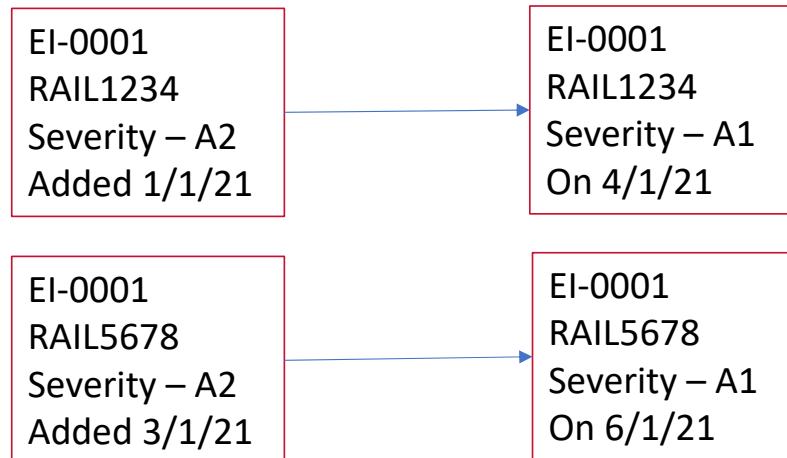


# Old vs New Car Flow on an Advisory

- Current Process
  - MA Created on 1/1/20
  - Cars Escalate to EW
    - 90 days from notice creation



- New Process
  - EI Created on 1/1/20
  - Cars Escalate to A1
    - 90 days after advisory is assigned to the car



# Escalation Method - Interval

- Example: 500 equipment escalated to A1 every 2 weeks

	Number of Cars Allowed to be Escalated to Severity Code A1	Number of Cars to be Escalated to Severity Code A1 Every 2 Weeks
Initial load	500	
Week 2		500
Week 4		500
Week 6		500
Week 8		500
...		

# Escalation Method – Replenish

- Example: A1 limit set to 100 equipment

	Maximum Number of Cars Assigned Severity Code A1	Cars Remaining with Severity Code A1	Cars Escalated to Severity Code A1 (Maximum cars allowed – cars remaining)
Initial load	100	-	-
Week 1	100	85	15
Week 2	100	95	5
Week 3	100	55	45
Week 4	100	100	0
Week 5	100	96	4
...			

# New Office Manual Rule 125.F Prioritizing Cars For Escalation

## F. Prioritizing Cars for Escalation

1. Cars may be prioritized for escalation based on but not limited to location, commodity, car type, and/or frequency of movement.

# Location on Car

- Adding the ability to relay location related information in the following steps
  - Create Advisory
    - Location on car is optional when creating an advisory
      - CRB Locations
      - Component Tracking
  - Report Inspection
    - Multiple locations inspected/repaired may be reported for an individual car
    - Advisory will remain assigned to equipment until all mandatory locations are reported
- Example:
  - EW-5325 – Removal of Maanshan Wheels 2005-2006

# Equipment Advisory System Query Screen

## Query Equipment

Search Criteria
Toggle Adv. Search

**Basic Search**

Equip ID  
rail1

Advisory Numbers 🔍

Partial Title / Text

Advisor Type:
  EI
  IN
  SH

Private Advisory  Show Private

**Umler Data**

Mechanical Designations 🔍 Umler Owner

EINs

Lessees

Maint Parties

Mark Owners

Equip Status:
  Active
  Inactive
  Pre-Registered

**Equip Data**

Equip Asgn: From \_\_\_\_\_ To \_\_\_\_\_

Equip Insp: From \_\_\_\_\_ To \_\_\_\_\_

Insp Status: \_\_\_\_\_

Search
Count
Reset

**Search Results**

Max Number of Results: 1000

REPORT INSPECTION

EXPORT TO CSV
REFRESH

Equipment ID	Advisory ID	Mark Owner	UmlerOwner	Lessee	Mech Desig	Equip Status	Assign Date	EIN
<input type="checkbox"/> RAIL0000000001	EI-0272	RAIL	RAIL		D	D	2020-11-16	0010179953
<input type="checkbox"/> RAIL0000000001	EI-0265	RAIL	RAIL		D	D	2020-11-11	0010179953
<input type="checkbox"/> RAIL0000000001	EI-0274	RAIL	RAIL		D	D	2020-11-17	0010179953

# Equipment Advisory System Website

- Equipment List Sorted by Equipment ID

EI-0954  
Equipment List as of: 16:48:26 on May 27, 2021

Equipment ID	Sev	Esc Date	Equipment ID	Sev	Esc Date
DTTX 469883	A1	2021-05-27	RAIL 32	XX	
DTTX 469884	A1	2021-05-27	RAIL 37	XX	
DTTX 469886	A1	2021-05-27	RAIL 43	XX	
DTTX 469895	A1	2021-05-27	RAIL 901	XX	
DTTX 469898	A1	2021-05-27	RAIL 964	XX	
DTTX 469915	A1	2021-05-27	RAIL 999911	XX	
DTTX 469916	A1	2021-05-27	RBOX 30001	XX	
DTTX 469918	A1	2021-05-27	TBOX 638087	XX	
DTTX 469928	A1	2021-05-27	TFWX 850306	A1	2021-05-27
DTTX 469930	A1	2021-05-27	TPDX 190286	A1	2021-05-27
DTTX 469932	A1	2021-05-27	TTAX 79528	A1	2021-05-27
DTTX 469934	A1	2021-05-27	TTAX 554027	A1	2021-05-27
DTTX 469940	A1	2021-05-27	TTAX 554051	A1	2021-05-27
DTTX 469944	A1	2021-05-27	TTAX 554400	A1	2021-05-27
DTTX 469945	A1	2021-05-27	TTCX 98145	A1	2021-05-27
DTTX 469946	A1	2021-05-27	TTGX 157237	A1	2021-05-27

# Equipment Advisory System Website

- Equipment List Sorted by Severity Code

EI-0954

Equipment List as of: 16:47:34 on May 27, 2021

Equipment ID	Sev	Esc Date	Equipment ID	Sev	Esc Date
FBOX 506853	XX		TTGX 157237	A1	2021-05-27
FBOX 506857	XX		TTGX 157281	A1	2021-05-27
FBOX 506858	XX		TTGX 157295	A1	2021-05-27
JAIX 860418	XX		TTGX 157353	A1	2021-05-27
RAIL 9	XX		TTGX 157444	A1	2021-05-27
RAIL 17	XX		TTGX 157473	A1	2021-05-27
RAIL 25	XX		TTZX 86441	A1	2021-05-27
RAIL 31	XX		TTZX 87002	A1	2021-05-27
RAIL 32	XX		TTZX 862353	A1	2021-05-27
RAIL 37	XX		TTZX 862934	A1	2021-05-27
RAIL 43	XX		TTZX 863563	A1	2021-05-27
RAIL 901	XX		VTTX 97556	A1	2021-05-27
RAIL 964	XX		VTTX 97613	A1	2021-05-27
RAIL 999911	XX		VTTX 97645	A1	2021-05-27
RBOX 30001	XX		XTTX 137202	A1	2021-05-27
TBOX 638087	XX		XTTX 137332	A1	2021-05-27
DTTX 469883	A1	2021-05-27	XTTX 137338	A1	2021-05-27
DTTX 469884	A1	2021-05-27	XTTX 137353	A1	2021-05-27
DTTX 469886	A1	2021-05-27	XTTX 137388	A1	2021-05-27



# What To Do To Get Ready For The Equipment Advisory System?

- BE AWARE
- Make sure your company is AWARE
- Review mapping of Early Warnings/Maintenance Advisories to Equipment Advisories (sample below)

Notice Type	Notice Number	Advisory Type	Advisory #	Severity of cars at Go Live	Severity on Advisory	Notice Title
EW	5171	EI	1	A1	A2, A1, XX	Cars Overdue for Periodic Air Brake Testing November 1, 2000
MA	63	EI	1	A2	A2, A1, XX	Cars Overdue for Periodic Air Brake Testing as of February 1, 2001
	Reserved	EI	2		A2, A1, XX	ABT - Inactive and Pre-registered cars
	Reserved	EI	3		XX	ABT - Over Age YA Cars
EW	5340	EI	4	A1	A2, A1	Inspection and Replacement of Service Portion Brake Valves at age 14 Plus
MA	195	EI	4	A2	A2, A1	Inspection and Replacement of Service Portion Brake Valves at age 13
EW	5341	EI	5	A1	A2, A1	Inspection and Replacement of Emergency Portion Brake Valves at age 14 Plus
MA	196	EI	5	A2	A2, A1	Inspection and Replacement of Emergency Portion Brake Valves at age 13
EW	5299	EI	6	XX	XX	MA-0152 Elevated to EW-5299 - Reflectorization

- Watch for and print out the Field and Office Manual Implementation circular for Rule 125 and various related Rules
- Plan to hold reporting of inspections on June 28<sup>th</sup> until Railinc sends out notification that the Equipment Advisory system is live

## Items of Note

- Early Warning permissions will automatically transfer to the Equipment Advisory System
- Deltas
  - Early Warnings addressed during the time cars are being loaded to Equipment Advisories
  - Manual process to sync is expected to be completed late on 28<sup>th</sup>
- Inspections/repairs on Monday June 28<sup>th</sup> must be reported to the Equipment Advisory system

# Timeline to Implementation

- June 2021
  - AAR will issue Rule changes via circular, effective June 28, 2021
  - Railinc will send notification that the Early Warning System is being shut down
- Morning of June 28<sup>th</sup>
  - Early Warning System will be shut down
  - Migration of notices and cars from Early Warning System to Equipment Advisory System
  - Turn on Equipment Advisory System
  - Railinc will send out notification that the new Equipment Advisory System is live



# Questions?

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