Guidance and Examples

Include the following on the BrR Vehicle Analysis Template component of the Load Rating Report:

- Vehicle Summary (Analysis Template)
- Vehicle Properties (Advanced Settings)
 - Hint cannot adjust size of this window; may have to adjust column widths to fit in one screenshot
 - Note this will need to be updated for LRFR if EV live load factor is changed
- Any non-standard library vehicle definitions
 - o For ASR/LFR
 - Use standard definitions for all vehicles
 - No additional screenshots necessary, please note that standard vehicle definitions were used for all vehicles
 - o For LRFR
 - Use modified contact area for EVs
 - Include screenshots of agency defined vehicles (i.e. EVs, Adjacent Type 3-3)

GENERAL NOTES:

- MDT Vehicle Analysis Templates and MDT Agency-Defined Vehicles (*BrR.xml files*) are available for download from MDT's Load Rating Website
- Please ensure that tr the template attached to the load rating report is the actual template used in the rating
- Only the analysis template that's applicable to rating methodology used needs to be attached to the report. For mixed material/mixed code bridges, please include both.
- Contact MDT's <u>Load Rating Engineer</u> for guidance on incorporating additional templates (e.g. BrR bug workarounds)

Guidance and Examples

Example Vehicle Template for LFR/ASR Analysis

EV2 EV3 Advanced Settings:	e Summary:														
EV2 EV3 Advanced Settings:	Rating Vehicles														
EV2 EV3 Advanced Settings:	⊕- LRFR														
EV2 EV3 Advanced Settings: Su4 Su4 Su5 Su6 Su7 Train Factor Fa	Ė- LFD/ASD														
SU SU SU SU Su Su Su Su	⊟ Inventory														
Vehicle Tande Scale Impact Lane	EV2														
SU Vehicle Tande Scale Impade Frequency Condition Over	EV3	Advanced Sett	inaci												
Vehicle	HS 20-44	Auvunceu Sett	irigs.												
Vehicle	SU4	V1:1 D													
SU6 SU7 Tande Scale Impad Facto Train Train Facto Train Train Train Facto Train	SU5	Vehicle Properties													
Vehicle			Tanda	Scale		Single			Lengl		_		_		Pe
Type 3 Type 3-3 Type 3-3 Type 3S2 HS 20-44 Substitute	SU7	Vehicle	100000000000000000000000000000000000000		impac		Lega			Frequenc	у			Overrid e	L
Type 3-3 Type 3S2 HS 20-44 Sud Type 3S2 EV3 Type 3S2 HS 20-44 Type 3S2 EV3 Type 3S2 Fraiting EV2 Sub Sub Sub Sub Sub Sub Sub Su			Train	r		Loade	Fall	-	Load			Condition		-	L
Type 3S2 HS 20-44 Su4 1 Single Trip Mixed with traffic EV2 EV3 HS 20-44 SU6 1 Single Trip Mixed with traffic Su6 1 Single Trip Mixed with traffic Su7 Type 3 Type 3-3 Type 3-3 Type 3S2 1 Single Trip Mixed with traffic Su5 Type 3-3 Type 3S2 Single Trip Mixed with traffic											_				
Ev2 EV3 HS 20-44 SU4 SU7 SU7 SU8 SU7 SU8 SU7 SU8 SU7 SU9 SU7 SU8 SU7 SU9 SU7 SU8 SU7 SU7 SU8 SU8				_							_		_		
EV2 SU5 1 Single Trip Mixed with traffic Image: Single Trip						1	-						=		
EV3 SU6 1 Single Trip Mixed with traffic Image: Single Trip Mixed with traffic Image: Single Trip Mixed with traffic Image: Single Trip Image: Single Trip Image: Mixed with traffic Image: Single Trip	Operating			_		H	H	-							
Sur				_		H	H				-				
Type 3		and the second s		_		H	H	-			-				
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SU5 Type 3S2 1 Single Trip Mixed with traffic SU6				_		H	П	ī			~		-		
SU6				1		Ħ		ī			~	Mixed with traffic	~	ī	
AND COMMON TO AN	SU4 SU5 SU6 SU7	Type 3-3		1						Single Trip	~	Mixed	with traffic	with traffic	with traffic V
	Type 3S2														
Type 3S2	- Legal Operating	I													
al Operating	- Permit Inventory	Description of the state	200000												

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^{**}Standard library definitions used for all vehicles

Guidance and Examples

Example Vehicle Template for LRFR Analysis

Analysis Settings:													
Vehicle Summary:													
Rating Vehicles LRFR Design Load Rating Inventory HL-93 (US) HL-93 (US) HL-93 (US) Rating LRFD Fatigue Truck (US) Routine	Advanced Setting	as:]										
Lane-Type Legal Load	Vehicle Properties	<i>.</i>											
Type 3 Type 3-3 Type 3S2	Vehicle	Tande m Train	Scale Facto	Impac	Single Lane Loade	Lega Pair	Overrid e	Legal Live Load	Frequen	icy	Loading Condition	Overrid e	Permit Live Load
□ Specialized Hauling	HL-93 (US)		1						Single Trip	~	Mixed with traffi ~		2000
- SU4	Lane-Type Legal Load		1			\square			Single Trip	~	Mixed with traffi ~		
SU5	LRFD Fatigue Truck (US)		1						Single Trip	~	Mixed with traffi		
SU6	SU4		1						Single Trip	~	Mixed with traffi ~		
	SU5		1						Single Trip	~	Mixed with traffi 🗸		
SU7	SU6		1						Single Trip	~	Mixed with traffi 🗸		
EV2m (Single Lane)	SU7		1						Single Trip	~	Mixed with traffi ~		
EV3m (Single Lane)	Type 3		1						Single Trip	~	Mixed with traffi ~		
Permit Load Rating	Type 3-3		1).	Single Trip	~	Mixed with traffi v		
	Type 3S2		1						Single Trip	~	Mixed with traffi ~		
EV2m (Multi-Lane)	EV2m (Multi-Lane)		1	_					Single Trip	~	Mixed with traffi		1.3
	EV2m (Single Lane)		1					1.3	Single Trip	~	Mixed with traffi		- 10
Adjacent Type 3-3	F) (2 (11-W) 1)								Single Trip	~	Mixed with traffi ~		1.3
	EV3m (Multi-Lane)		1					12	Single Trip		Mixed with traffi		
	EV3m (Multi-Lane) EV3m (Single Lane)		1					1.3	Single Trip		Mixed with traffi		
EV3m (Multi-Lane)								1.3	Single Trip		Mixed with traffi		
- EV3m (Multi-Lane) - Adjacent Vehicle								1.3	Single Trip		Mixed with traffi v		
EV3m (Multi-Lane)		kip				Adjace			Single Trip				

^{**}EVs and Adjacent Type 3-3 are Agency Defined vehicles – see next page

Standard library definitions used for all other vehicles

Guidance and Examples

Example Vehicle Template for LRFR Analysis – Agency Defined Vehicles







