

BrM 5.3 New Features

Load Rating Module

September 12-13, 2017

Alexandria, Virginia

- How it was before
- Merge:
 - Custom Vehicles
 - Summary Reports
 - Locations
 - LR Events

- Vehicles
- Events
- Event History
- Current Rating
- Processes
- Integration with Inspection

How it was before:

Inspection > Appraisal

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Structural Appraisal	Calculated Appraisal Ratings
Open/Posted/Closed (041): A Open, no restriction Approach Alignment (072): 6 Equal Min Criteria Bridge Railings (036A): 0 Substandard Transitions (036B): 0 Substandard Approach Guardrail (036C): 0 Substandard Approach Guardrail Ends (036D): 0 Substandard Pier Protection (111): Not Applicable (P) Scour Critical (113): N Not Over Waterway Fracture Critical Details: NONE (FIX PARAM VALL ▼	Structural Evaluation (067): 6 Equal Min Criteria Deck Geometry (068): 3 Intolerable - Correct Underclearances (069): 4 Tolerable SD/FO Status: Functionally Obsolete Sufficiency Rating (SRB): 75.0 Sufficiency Rating Calculate Status: SAVED / 0 Health Index: 66.67% Bridge Condition: Fair
Clearances	NBI Load Ratings
Minimum Vertical Clearances Over Structure (053): 99.990 ft Under (Reference) (054A): R Railroad beneath struc Under Clearance (054B): 22.240 ft	Load Rating Review Recommended: Design Load (031): 1 M 9 (H 10) Posting (070): 5 At/Above Legal Loads Operating Type (063): 6 Load Factor (MS18) OR Factor (064): 1.60 rf Type 1: 0.0 ton Type 2: 0.0 ton
Minimum Lateral Clearances Reference Feature (055A): R Railroad beneath struc Right Side (055B): 10.490 Left Side (056): 0.000	Inventory type (065): 6 Load Factor (MS18) IR Factor (066): 2.67 rf Alternate Operating Rating: 0.0 ton Alternate Inventory Rating Type: Alt IR Method -1 Alternate Inventory Rating Type: Alt IR Method -1 V
Navigation Data Navigation Control Exists (038): NA-no waterway Navigation Vertical Clearances (039): 0.000 ft Navigation Horizontal Clearances (040): 0.000 Minimum Vertical Lift Clearances (116): 0.000 ft	Alternate Inventory Rating: 0.0 ton Iype 2: 0.0 ton Type 3: 0.0 ton SU4: ton SU5: ton SU6: ton SU6: ton SU7: ton NRL: ton

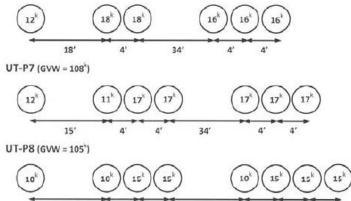
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Merge together:

UTAH COMMON PERMIT CONFIGURATIONS

UT-P6 (GVW = 96^k)



UT-P9a (GVW = 106^k)

$$\underbrace{14^k}_{12'} \underbrace{7^k}_{4'} \underbrace{17^k}_{4'} \underbrace{17^k}_{4'} \underbrace{11^k}_{28'} \underbrace{11^k}_{4'} \underbrace{$$

UT-P9b (GVW = 132^k)

LRFR Rat	ing	LFR Rati	ing
IL-93 Opr (064):	1.23 rf	HS-20 Opr:	1.63
IL-93 Inv (066):	0.95 rf	HS-20 Inv:	0.98
Type 3:	1.7240	Type 3:	2.0090
Type 3S2:	1.7730	Type 3S2:	2.0640
Type 33:	2.1390	Type 33:	2.4920
LL:		LL:	
NegMom:		NegMom:	C.
SU4:	1.4360	SU4:	1.6720
SU5:	1.3470	SU5:	1.5680
SU6:	1.2250	SU6:	1.4260
SU7:	1.1740	SU7:	1.3670
UTP6:	1.5760	UTP6:	1.5570
UTP7:	1.4840	UTP7:	1.4650
UTP8:	1.4860	UTP8:	1.4680
UTP9a:	1.6390	UTP9a:	1.6190
UTP9b:	2.2500	UTP9b:	2.2220

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• The Solution

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Merge together:

UTAH DEPARTMENT OF TRANSPORTATION BRIDGE LOAD RATING SUMMARY

				BH	IDGE LOAD RATING	5 SUMM	АНҮ					
	TING BRIDG	e dai								rev. 5/22	/2014	
Bridge			OC 300	-		YearE			1958			
	e Location (NE			East of Kanab		Plans			Yes			
	rstructure Type		Steel		Stringer/Multi-Beam	Desigr		-				
	th of Bridge (ft.)	354.00			Inspec	tion U	ate	4/23/2013			
Numb	er of Spans		5			FCM			No			
RESI	STANCE DA	ТА										
Cond	ition Factor			1								
Syste	m Factor			1]						
BRIN	GE DEAD LO	ח ח אר	ата			CRITI	FRIA					
	ay Type			Bituminou	e			nualfor	Bridge Evaluation, Seco	ond Editio	n 201	
	ay Depth (in)			4	-	4 1			014 Interim Revisions			
	ay Depth Meas	sured		No					Manual, by UDOT, Chap	oter 4.		
	-,					Febru		-				
							r .		: BrR, version 6.5.0			
						<u>-</u>						
LIVE	LOAD DATA	۹.										
	mic Load Allow		Legal/Pe	rmit) 33.00%								
<u> </u>	(one-way)		_	418		1						
				·		•						
				RESULTS					ESULTS			
Leve				NLJUL I J					LJULIJ	,		
Leve	Vehicle	Tons	Rating Factor	Limit State	Mode	Member	Span	Rating Factor	Mode	Member	Spa	
_	HL-93(INV)	36	1.11	Service_II	Steel Yield	G1, G5	3	NA	NA	NA	NA	
ġ	HL-93 (OPR)	36	1.45	Service_II	Steel Yield	G1, G5	3	NA	NA	NA	NA	
Design	HS-20 (INV)	36	NA	NA	NA	NA	NA	1.60	Serviceability-Steel	G2-G4	3	
_	HS-20 (OPR)	36	NA	NA	NA	NA	NA	2.67	Serviceability-Steel	G2-G4	3	
	Туре З	25	1.97	Service_II	Steel Yield	G1, G5	3	2.61	Serviceability-Steel	G2-G4	3	
	Type 3S2	36	1.82	Service_II	Steel Yield	G1, G5	3	2.38	Serviceability-Steel	G2-G4	1,5	
	Туре 3-3	40	1.92	Service_II	Steel Yield	G1, G5	3	2.55	Serviceability-Steel	G2-G4	3	
<u>-</u>	Span	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	
egal	Neg Mom	40	4.50	Service_II	Steel Yield	G1, G5	3	NA	NA	NA	NA	
-	SU4	27	1.75	Service_II	Steel Yield	G1, G5	3	2.32	Serviceability-Steel	G2-G4	3	
	SU5	31	1.59	Service_II	Steel Yield	G1, G5	3	2.11	Serviceability-Steel	G2-G4	3	
	SU6	35	1.42	Service_II	Steel Yield	G1, G5	3	1.89	Serviceability-Steel	G2-G4	3	
	SU7	39	1.30	Service_II	Steel Yield	G1, G5	3	1.73	Serviceability-Steel	G2-G4	3	
2	UT-P6	48	2.43	Service_II	Steel Yield	G1, G5	1,5	2.43	Serviceability-Steel	G2-G4	1,5	
÷	UT-P7	54	2.31	Service_II	Steel Yield	G1, G5	1,5	2.31	Serviceability-Steel	G2-G4	1,5	
Permit *	UT-P8	52.5	2.12	Service_II	Steel Yield	G1, G5	1,5	2.13	Serviceability-Steel	G2-G4	1,5	
۵.	UT-P9a	53	2.11	Service_II	Steel Yield	G1, G5	1,5	2.11	Serviceability-Steel	G2-G4	1,5	
Leaer	UT-P9b	66	2.28	Service_II	Steel Yield	G1, G5	1,5	2.29	Serviceability-Steel	G2-G4	1,5	
	na: irder or Stringe				Remarks: None.							
	= Lane load c		ation for a	pape > 200.0t	Assumptions: None. Recommendations: N							
	1om = Lane Ioa				necommendations: N	one.						
-	ments and rea			-								
	Not Applicable		avnivenor									
	ited for unlimite		sings for l	IRFR								
	ited at operatin		-									
	ted at operatin = Fracture Criti											
	Rating Perform			Melanie H	lelm, PE / Jacobs Engir	neering Gi	roup		Engineer Seal			
	s/Date:				MH		2/2014					
	Ratings Check	ked By	/ Firm:	Susan K. V	√ynn, SE/Jacobs Engi							
Qualit	ty Assurance E	By / Firm	n:	Peter J. McC	Govern, PE / Jacobs En	gineering	Group					

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- Wearing Surface/Dead Load Load Rating Load Rating Status: Re-Analysis Reg 💌 Asphalt: in Granular: 20.00 in Rating Program: Concrete: in Timber: in Max Wearing Surface for Load Capacity: 44.45 in ASR/LFR Posting Controlling Member Recommended Posting Inv Rating Oper Rating Actual Posting H Trk: S03 @ 1.50 36 ton H Trk: 18 ton H Trk: Type 3 Trk: ton Type 3 Trk: ton HS TRk: S03 @ 1.50 HS Trk: 32 ton 66 ton HS Trk: Type 3S2 Trk: Type 3S2 Trk: ton ton Type 3 Trk: S03 @ 1.50 Type 3 Trk: 42 ton Type 3 Trk: 67 ton Type 3-3 Trk: Type 3-3 Trk: ton ton Type 3S2 Trk: S01 @ 1.40 Type 3S2 Trk: 50 ton Type 3S2 Trk: 84 ton Max Axle: ton Max Axle: ton Type 3-3 Trk: S01 @ 1.40 Type 3-3 Trk: Type 3-3 Trk: Height Posting: Single Lane All Vehicles: 50 ton 84 ton ft Single Lane Trucks/Buses: Spec 121: Spec 121: ton Spec 121: ton NRL: NRL: ton NRL: ton Height Posting: ft LRFR Controlling Member Rating Factor Legal Rating Permit Rating HL-93: Inv HL-93: Type 3 Trk: Type 3 Trk: Type 3 Trk: Oper HL-93: Type 3S2 Trk: Type 3S2 Trk: Type 3S2 Trk: Type 3-3 Trk: Type 3-3 Trk: Type 3-3 Trk: Spec 121: Spec 121: Spec 121: NRL: NRL: NRL: Notes:
- Integration with Inspection

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Merge together:

	Event To Publish	(01)	(02)	(03)	(04)			
Rating Date (252)	04 🐨	6/30/2005 12:0	1/1/1900 12:00	11/21/2013 12	12/8/2014 12:0			
Rater Initials			[JFB	DDJ	Loo			
HS (OPER. RATING) (64)	04 🗸	35.5	48	39.5	43.6			
HS (INV. RATING) (66)	04 🗸	21.3	36	23.6	26.1			
H-TRUCK (254A)	04 🗸	[26.8]		25.7	[31.3			
TANDEM AXLE (2548)	04 🗸	33.3		36.8	40.9			
TRIAXLE DUMP (254C)	04 🔽	31.3		33.5	38.4			
CONCRETE (254D)	04 🗸	31.6		[33	38.8			
18-WHEELER (254E)	04 🗸	57.8		57.7	70.1			
6-AXLE (254F)	04	54.1		53.8	64.8			
SCHOOL BUS (254G)	04 🔍	32.5		31.6	30.4			
RATING METHOD (OPER.) (63)	04 🗸	1 LF Load Factor	5 No rating	1 LF Load Factor	1 LF Load Factor			
RATING METHOD (INV.) (65)	04 🗸	1 LF Load Factor	5 No rating	1 LF Load Factor	1 LF Load Factor			
RATING SPEC (249)	04 🔽	LFD	Not Rated	UFD 🔽	LFD V			
RATING ANALYSIS MAJOR (250A)	04	AASHTO BrR (Virtis)	Not Rated / Analyzed	AASHTO BrR (Virtis)	AASHTO BrR (Virtis)			
RATING ANALYSIS MINOR (250B)	04 🔽	Not Rated / Analyzed	Not Rated / Analyzed	BRUFEM	BRUFEM			
RATING AGENCY (251)	04 🔽	ALDOT (Maint. Bureau	Not Rated / Analyzed	ALDOT (Maint, Bureau)	ALDOT (Maint, Bureau			
DOCTING LEVEL CON				5 At/Above Legal Load: 🗸				
POSTING LEVEL (70) RATING STATUS (253A)				Rating Published				
RATING STATUS (273A)								
RATING STATUS FROMART (2536)	1			No Action				
POSTING MEMBER (257A)				Superstructure V				
REASON POSTED (2578)				None / Condition Noted				
POSTING CHART INDICATOR (259)				Leave Off Posting Char				
STANDARD DRAWINGS - MAIN (26)	9			SPECIAL				
STANDARD DRAWINGS - MAIN (20				INNININANINANINA				

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Step 1: Define the Vehicles

Admin > General Config > Vehicle Definitions

Vehicle	Default Rating Method	Default Analysis Type	Standard	Is Active	Description	Order	
	5 No rating or eval ▼	Design 🔻	4				Add New Vehicle
HS-20 Operating	6 Load Factor (MS18)	Design	Yes	Yes		1	↓ <u>↓</u> >
HS-20 Inventory	6 Load Factor (MS18)	Design	Yes	Yes		2	$\overline{\uparrow}$ \uparrow \downarrow \pm
HL-93 Operating	8 LRFR (HL93)	Design	Yes	Yes		3	$\overline{\uparrow}$ \uparrow \downarrow \pm
HL-93 Inventory	8 LRFR (HL93)	Design	Yes	Yes		4	$\overline{\uparrow}$ \uparrow \downarrow \pm
Туре 3	8 LRFR (HL93)	Legal	Yes	Yes		5	$\overline{\uparrow}$ \uparrow \downarrow \pm
Type 3S2	8 LRFR (HL93)	Legal	Yes	Yes		6	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
Type 3-3	8 LRFR (HL93)	Legal	Yes	Yes		7	$\overline{\uparrow} \uparrow \downarrow \downarrow \downarrow$
Notational SHV	8 LRFR (HL93)	Permit	Yes	Yes		8	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
SHV 4	8 LRFR (HL93)	Permit	Yes	Yes		9	$\overline{\uparrow} \uparrow \downarrow \downarrow \downarrow$
SHV 5	8 LRFR (HL93)	Permit	Yes	Yes		10	$\overline{\uparrow} \uparrow \downarrow \downarrow \downarrow$
SHV 6	8 LRFR (HL93)	Permit	Yes	Yes		11	$\overline{\uparrow} \uparrow \downarrow \downarrow \downarrow$
SHV 7	8 LRFR (HL93)	Permit	Yes	Yes		12	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
EV2	8 LRFR (HL93)	Permit	Yes	Yes		13	$\overline{\uparrow} \uparrow \downarrow \downarrow \downarrow$
EV3	8 LRFR (HL93)	Permit	Yes	Yes		14	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
UT-P6	8 LRFR (HL93)	Permit	Yes	Yes	GVW = 96k	15	$\overline{\uparrow} \uparrow \downarrow \downarrow \downarrow$
UT-P7	8 LRFR (HL93)	Permit	Yes	Yes	GVW = 108k	16	$\overline{\uparrow}$ \uparrow \downarrow \pm
UT-P8	8 LRFR (HL93)	Permit	Yes	Yes	GVW = 1 05k	17	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
UT-P9a	8 LRFR (HL93)	Permit	Yes	Yes	GVW = 106k	18	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
UT-P9b	8 LRFR (HL93)	Permit	Yes	Yes	GVW = 132k	19	$\overline{\uparrow}\uparrow\downarrow\downarrow\underline{\downarrow}$
Other Permit Vehicle	8 LRFR (HL93)	Permit	No	Yes	See notes for vehicle descript	20	↑ ↑

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 - Vehicles ٠
 - **Events** ٠
 - Event ٠ History
 - Current • Rating
- Processes ٠
- Integration with • Inspection

Step 2: Create a Load Rating Event

Inspection > Load Ratings

		Rai	ting Event: 9	/5/2017	Create	e New Load Rating Event							
Current & Reported Ratings	Load	Rating Reports											
Load Rating Review Recommended Reported Rating Open / Posted / Closed (041): A Open, no restriction Design Load (031): A HL 93 V	Loa Softwa	nt Name: 9/5/2017 ad Rater: Melanie Helm, ire used: AASHTOWare sphalt Overlay, Dynamic	BrR 🔻	Secon	d Rating Date: Reviewer: Jary Software:	Susan K Wynn, SE	T						
Posting (070): 5 At/Above Legal Loads		ADT (one-way) 418 ystem Factor and Condit	ion Factor: 1 8								11		
	Wearin	ng Surface / Fill Depth: 4	1.00		inches	Category: Routine		•		C	Add New Vehicle/	Rating	
Vehicle Item 64 Item 66 Rating Tons Event Method 63/65		Vehicle	Current	Rating	Tons	Method		Analysis Type		Limit State	Location	Notes	
No Current Ratings have been selected for this bridge.		HS-20 Operating		1.6	0	6 Load Factor (MS18)	•		•	Serviceability Steel	S3 G2 to G4	📋 🗙	
		HS-20 Inventory		2.67	0	6 Load Factor (MS18)	•	Design	•	Serviceability Steel	S3 G2 to G4	🚔 🗙	
		HL-93 Operating		1.11	0	8 LRFR (HL93)	Ŧ	Design	•	Service II - Steel Yield V	S3 G1 & G5	📋 🗙	
		HL-93 Inventory		1.45	0	8 LRFR (HL93)	•	Design	•	Service II - Steel Yield V	S3 G1 & G5	🖹 🗙	
		Туре 3		1.97	0	8 LRFR (HL93)	•	Legal	•	Service II - Steel Yield 🔻	S3 G1 & G5	📋 🗙	
		Type 3S2		1.82	0	8 LRFR (HL93)	•	Legal	•	Service II - Steel Yield V	S3 G1 & G5	🖹 🗙	
		Туре 3-3		1.92	0	8 LRFR (HL93)	•	Legal	•	Service II - Steel Yield 🔻	S3 G1 & G5	📋 🗙	
		Notational SHV		4.5	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield 🔻	S3 G1 & G5	Lane Load Combination fc 📋 🗙	
		SHV 4		1.75	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield V	S3 G1 & G5	📋 🗙	
		SHV 5		1.59	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield V	S3 G1 & G5	🖹 🗙	
		SHV 6		1.42	0	8 LRFR (HL93)	Ŧ	Permit	•	Service II - Steel Yield V	S3 G1 & G5	📋 🗙	
		SHV 7		1.3	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield 🔻	S3 G1 & G5	🖹 🗙	
		EV2		0	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield V	S3 G1 & G5	📋 🗙	
		EV3		0	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield V	S3 G1 & G5	🖹 🗙	
		UT-P6		2.43	0	8 LRFR (HL93)	Ŧ	Permit	•	Service II - Steel Yield V	S1 & S5 G1 &	G5 📋 🗙	
		UT-P7		2.31	0	8 LRFR (HL93)	٣	Permit	•	Service II - Steel Yield 🔻	S1 & S5 G1 &	G5 📑 🗙	
		UT-P8		2.12	0	8 LRFR (HL93)	Y	Permit	•	Service II - Steel Yield V	S1 & S5 G1 &	G5 📋 🗙	
		UT-P9a		2.11	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield V	S1 & S5 G1 &	G5 📑 🗶	
		UT-P9b		2.28	0	8 LRFR (HL93)	•	Permit	•	Service II - Steel Yield 🔻	S1 & S5 G1 &	G5 📋 🗙	

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Peek at History of a Rating:

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1.97

Туре 3

- load	Rating Reports												
			- ·										
Even	nt Name: 9/5/2017 Routine	}	Loa	d Rating Date:	9/5/2017								
Loa	id Rater: Melanie Helm, P	E]	Reviewer:	Susan K Wynn, SE	san K Wynn, SE							
Softwar	re used: AASHTOWare B	rR 🔻	Secon	dary Software:	NA	•							
	sphalt Overlay, Dynamic Lo ADT (one-way) 418 ystem Factor and Condition	n Factor: 1 &		7	0				li				
Wearin	g Surface / Fill Depth: 4.0	0		inches	Category: Routine		•						
									Add New Vehicle/Rating				
	Vehicle	Current	Rating	Tons	Method		Analysis Type	Limit State	Location				
	HS-20 Operating		4.0										
		✓	1.6	0	6 Load Factor (MS18)	•	Design 🔻	Serviceability Steel	S3 G2 to G4				
	Jan 1, 1972 - 1972 Pencil Calc	V	1.6	0	6 Load Factor (MS18) 6 Load Factor (MS18)	-	Design v Design	NA	S3 G2 to G4				
		 ✓ 	<u> </u>			-							
	Pencil Calc		1.75	0	6 Load Factor (MS18)		Design	NA	S3 G2 to G4				

8 LRFR (HL93)

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Legal

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Service II - Steel Yield 🔻

S3 G1 & G5

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Step 3: Which Rating is Current

Inspection > Load Ratings

									Rating Event: 9/5/	2017	Create	e New Load Ra	ating Event					
	w Recomm sed (041): pad (031):	A Open, no		•				Ever Loa Softwa	Rating Reports It Name: 9/5/2017 Id Rater: Melanie Helm, I re used: AASHTOWare sphalt Overlay, Dynamic L ADT (one-way) 418 system Factor and Condition g Surface / Fill Depth: 4.	BrR Load Allowa	V Secon	ad Rating Date Reviewer dary Software:	Susan K Wynn, SE	T T				
N-61-1-	No 04	N 00	D -4'	T	Front	N-4		Vicani	g Sunace i Fin Depair. [4:				category. Treasmo			Add New Vehicle/Rati	ng	
Vehicle	item 64	ltem 66	Rating	Ions	Event	Method 63/65			Vehicle	Curre	nt Rating	Tons	Method	Analysis Type	Limit State	Location	Notes	
HS-20 Operating			1.6	0	9/5/2017	6 Load Factor (MS18)	Remove		HS-20 Operating		1.6	0	6 Load Factor (MS18)	▼ Design ▼	Serviceability Steel	S3 G2 to G4) ×
HS-20 Inventory			2.67	0	9/5/2017	6 Load Factor (MS18)	Remove		HS-20 Inventory	1	2.67	0	6 Load Factor (MS18)	▼ Design ▼	Serviceability Steel	S3 G2 to G4		X
HL-93 Operating			1.11	0	9/5/2017	8 LRFR (HL93)	Remove		HL-93 Operating		1.11	0	8 LRFR (HL93)	▼ Design ▼	Service II - Steel Yield V	S3 G1 & G5) X
HL-93 Inventory		•	1.45	0	9/5/2017	8 LRFR (HL93)	Remove		HL-93 Inventory	•	1.45	0	8 LRFR (HL93)	▼ Design ▼	Service II - Steel Yield V	S3 G1 & G5		X
Гуре З			1.97	0	9/5/2017	8 LRFR (HL93)	Remove		Туре 3		1.97	0	8 LRFR (HL93)	▼ Legal ▼	Service II - Steel Yield V	S3 G1 & G5) ×
Type 3S2			1.82	0	9/5/2017	8 LRFR (HL93)	Remove		Type 3S2	-	1.82	0	8 LRFR (HL93)	▼ Legal ▼	Service II - Steel Yield 🔻	S3 G1 & G5		×
Туре 3-3			1.92	0	9/5/2017	8 LRFR (HL93)	Remove		Туре 3-3		1.92	0	8 LRFR (HL93)	▼ Legal ▼	Service II - Steel Yield 🔻	S3 G1 & G5	[) X
Notational SHV			4.5	0	9/5/2017	8 LRFR (HL93)	Remove		Notational SHV	-	4.5	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield 🔻	S3 G1 & G5	Lane Load Combination fc	×
SHV 4			1.75	0	9/5/2017	8 LRFR (HL93)	Remove		SHV 4	•	1.75	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield 🔻	S3 G1 & G5		X
SHV 5			1.59	0	9/5/2017	8 LRFR (HL93)	Remove		SHV 5	•	1.59	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield 🔻	S3 G1 & G5	· · · · · · · · · · · · · · · · · · ·	×
SHV 6			1.42	0	9/5/2017	8 LRFR (HL93)	Remove		SHV 6		1.42	0	8 LRFR (HL93)	• Permit •	Service II - Steel Yield V	S3 G1 & G5		j ×
SHV 7			1.3	0	9/5/2017	8 LRFR (HL93)	Remove		SHV 7	•	1.3	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield 🔻	S3 G1 & G5		×
EV2			0	0	9/5/2017	8 LRFR (HL93)	Remove		EV2		0	0	8 LRFR (HL93)	• Permit •	Service II - Steel Yield V	S3 G1 & G5		×
EV3			0	0	9/5/2017	8 LRFR (HL93)	Remove		EV3	e	0	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield 🔻	S3 G1 & G5		×
JT-P6			2.43	0	9/5/2017	8 LRFR (HL93)	Remove		UT-P6		2.43	0	8 LRFR (HL93)	• Permit •	Service II - Steel Yield V	S1 & S5 G1 & G5		×
JT-P7			2.31	0	9/5/2017	8 LRFR (HL93)	Remove		UT-P7	~	2.31	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield V	S1 & S5 G1 & G5		×
JT-P8			2.12	0	9/5/2017	8 LRFR (HL93)	Remove		UT-P8		2.12	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield V	S1 & S5 G1 & G5		X
JT-P9a			2.11	0	9/5/2017	8 LRFR (HL93)	Remove		UT-P9a	s.	2.11	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield 🔻	S1 & S5 G1 & G5		×
UT-P9b			2.28	0	0/5/2017	8 LRFR (HL93)	Remove		UT-P9b	v	2.28	0	8 LRFR (HL93)	▼ Permit ▼	Service II - Steel Yield V	S1 & S5 G1 & G5	· · · · · · · · · · · · · · · · · · ·	1 X

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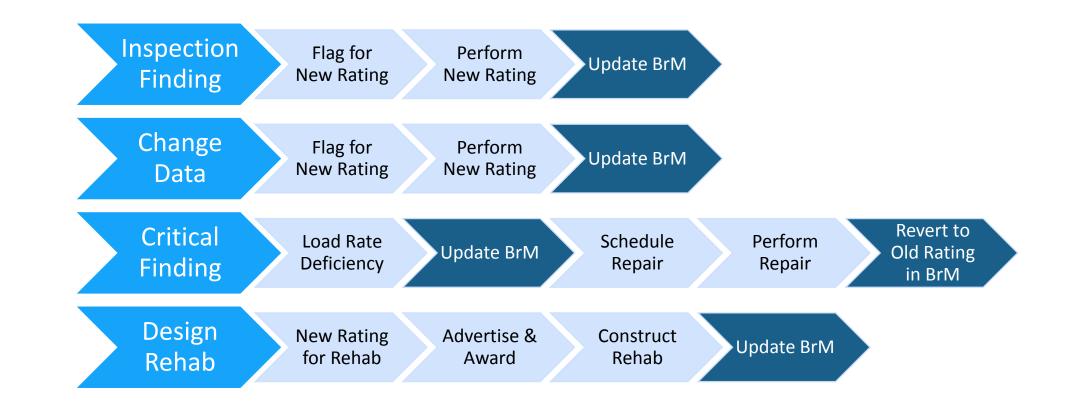
• Merge:

- Custom
 Vehicles
- Summary Reports
- Locations
- LR Events

• The Solution

- Vehicles
- Events
- Event History
- Current Rating
- Processes
- Integration with
 Inspection

Part of these Processes:



- How it was before
- Merge:
 - Custom Vehicles
 - Summary Reports
 - Locations
 - LR Events

- Vehicles
- Events
- Event History
- Current Rating
- Processes
- Integration with Inspection

The Links:

Load Rating Review Recommended:	
Rating Date: 1/1/1901 Initials: Design Load (031): A HL 93 Posting (070): 5 At/Above Legal Loads Operating Type (063): 8 LRFR (HL93) OR Factor (064): 1.11 rf Inventory type (065): 8 LRFR (HL93) IR Factor (066): 1.45 rf Alternate Operating Rating Type: null (FIX PARAM VALUE Alternate Operating Rating: ton Alternate Inventory Rating Type:(FIX PARAM VALUES) Alternate Inventory Rating: ton	Posting Loads Inventory Type 1: 0.0 Type 2: 0.0 Type 3: 0.0 Operating Type 2: 0.0 Type 2: 0.0 Type 2: 0.0 Type 3: 0.0 Type 3: 0.0 Type 3: 0.0 Type 3: 0.0 SU4: ton SU5: ton SU6: ton SU7: ton NRL: ton

Current & Reported Ratings

Load Rating Review Recommended

Reported Rating

Open / Posted / Closed (041): A Open, no restriction	T
Design Load (031): A HL 93	
Posting (070): 5 At/Above Legal Loads	۳

Vehicle	ltem 64	ltem 66	Rating	Tons	Event	Method 63/65	
HS-20 Operating	•	•	1.6	0	9/5/2017 Routine	6 Load Factor (MS18)	Remove
HS-20 Inventory			2.67	0	9/5/2017 Routine	6 Load Factor (MS18)	Remove
HL-93 Operating			1.11	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
HL-93 Inventory			1.45	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
Туре 3			1.97	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
Type 3S2			1.82	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
Туре 3-3			1.92	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
Notational SHV			4.5	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
SHV 4			1.75	0	9/5/2017 Routine	8 LRFR (HL93)	Remove
SHV 5			1.59	0	9/5/2017 Routine	8 LRFR (HL93)	Remove