

2012 **BETA 1.0 STUDY GUIDE RESOURCE**
RUNNING TRAIN LISTS MATRIX as of 1/14/2012
Big Rivers and Gulf Coast Subdivisions

Question #	MFLOD 11	Loads	Empties	Car Length	Head Power Length	Rear Power Length	Train Length	Car Tons	Head Power Tons	Rear Power Tons	Train Tons
44	Initial Departure	86	39	7583	219	73	7875	11028	602	204	11834
87	pick up 1 test load, RBOX 205669	1	0	55			55	100			100
	Running Totals:	87	39	7638	219	73	7930	11128	602	204	11934
5	cut-out 1 gondola's brakes (30 from the rear)	0	0	0			0	0			0
	Running Totals:	87	39	7638	219	73	7930	11128	602	204	11934
26	pick up 4 empty non-placarded tank cars 75 feet and 45 tons each	0	4	300			300	180			180
	Running Totals:	87	43	7938	219	73	8230	11308	602	204	12114
33	s/o all cars in Yard Track 3	-87	-43	-7938			-7938	-11308			-11308
	Running Totals:	0	0	0	219	73	292	0	602	204	806

44	Upon taking charge of train, 3 cars' brakes were already cut-out and confirmed on their paperwork: 122 / 125 = 97.6% Total Operative Brakes
87	Add 1 operative brake and 1 car: 123 / 126 = 97.6% Total Operative Brakes
5	Subtract 1 bad order brake and keep the car: 122 / 126 = 96.8% Total Operative Brakes
26	Add 4 operative brakes and 4 cars: 126 / 130 = 96.9% Total Operative Brakes

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Head Power EPA	Rear Power EPA	Total Power EPA	TPA RD UP	TPA RD UP	Head Power EDBA	Rear Power EDBA	Total Power EDBA	TPDBA RD UP	TPDBA RD UP	Operative Brakes	TPOB	TPOB RD UP
32.8	12	44.8	246.16	247	27.7	10.5	38.2	288.69	289	122	90.39	91
32.8	12	44.8	248.39	249	27.7	10.5	38.2	291.30	292	<u><u>1</u></u> 123	90.47	91
32.8	12	44.8	248.39	249	27.7	10.5	38.2	291.30	292	<u><u>-1</u></u> 122	91.21	92
32.8	12	44.8	252.41	253	27.7	10.5	38.2	296.02	297	<u><u>4</u></u> 126	89.74	90
32.8	12	44.8	0.00	0	27.7	105	38.2	0.00	0	<u><u>-126</u></u> 0	0.00	0

Note: When calculating **TPA/TPDBA** do not round off **EPA/EDBA** numbers used in making the calculation. After completing the calculation, if the final number is not a whole number, round up the result to the nearest whole number.

Note: Round up your train's **TPOB** to the next whole number.

- EPA** = Equivalent Powered Axles
- TPA** = Tons per Equivalent Powered Axle
- EDBA** = Equivalent Dynamic Brake Axles
- TPDBA** = Tons per Dynamic Brake Axle
- TPOB** = Tons per Operative Brake