

**EDG FOTP Lumped/Separate Sensitivities**

Input										Results						Lumped Improvement	
Case	Description	Train Birnbaum	EDG Run Hours	EDG Mission Time	EDG Demands	EDG FTL Demands	FOTP Demands	FOTP FTS	FOTP demands / mission	P(G)/(G)	P(W)/(G)	P(Y)/(G)	P(G)/(W)	P(W)/(W)	P(Y)/(W)	P(G)/P(G) Sep-Lumped	P(G)/P(W) Sep-Lumped
1a	Lumped x16 Mid	5.00E-05	105	8	69	69	210	1.90E-03	16	91%	9%	0%	61%	39%	0%	-9%	38%
1b	Separate x16 Mid	5.00E-05	105	8	69	69	210	1.90E-03	16	99%	1%	0%	99%	1%	0%		
2a	Lumped x16 WY	5.00E-05	105	8	69	69	210	1.90E-03	16	91%	9%	0%	18%	82%	0%	-9%	78%
2b	Separate x16 WY	5.00E-05	105	8	69	69	210	1.90E-03	16	99%	1%	0%	96%	4%	0%		
3a	Lumped x1 Mid	5.00E-05	105	8	69	69	210	1.90E-03	1	98%	2%	0%	5%	95%	0%	-2%	66%
3b	Separate x1 Mid	5.00E-05	105	8	69	69	210	1.90E-03	1	99%	1%	0%	71%	29%	0%		
4a	Lumped x1 WY	5.00E-05	105	8	69	69	210	1.90E-03	1	98%	2%	0%	0%	89%	11%	-2%	1%
4b	Separate x1 WY	5.00E-05	105	8	69	69	210	1.90E-03	1	99%	1%	0%	1%	99%	0%		
5a	Lumped x2 Mid	5.00E-05	105	8	69	69	210	1.90E-03	2	91%	9%	0%	1%	99%	0%	-8%	67%
5b	Separate x2 Mid	5.00E-05	105	8	69	69	210	1.90E-03	2	99%	1%	0%	67%	33%	0%		
6a	Lumped x2 WY	5.00E-05	105	8	69	69	210	1.90E-03	2	91%	9%	0%	0%	23%	77%	-8%	0%
6b	Separate x2 WY	5.00E-05	105	8	69	69	210	1.90E-03	2	99%	1%	0%	0%	100%	0%		
7a	Lumped x1 Mid	5.00E-05	105	8	69	69	138	1.90E-03	2	95%	5%	0%	5%	95%	0%	-5%	77%
7b	Separate x1 Mid	5.00E-05	105	8	69	69	138	1.90E-03	2	99%	1%	0%	82%	18%	0%		
8a	Lumped x1 WY	5.00E-05	105	8	69	69	138	1.90E-03	2	95%	5%	0%	0%	87%	13%	-5%	3%
8b	Separate x1 WY	5.00E-05	105	8	69	69	138	1.90E-03	2	99%	1%	0%	3%	97%	0%		
9a	Lumped x1 Mid	5.00E-05	100	8	69	69	68	1.90E-03	1	97%	3%	0%	5%	95%	0%	-2%	66%
9b	Separate x1 Mid	5.00E-05	100	8	69	69	68	1.90E-03	1	99%	1%	0%	72%	28%	0%		
10a	Lumped x1 WY	5.00E-05	100	8	69	69	68	1.90E-03	1	97%	3%	0%	0%	90%	10%	-2%	1%
10b	Separate x1 WY	5.00E-05	100	8	69	69	68	1.90E-03	1	99%	1%	0%	1%	99%	0%		
11a	Lumped x1 Mid	1.00E-04	100	8	69	69	68	1.90E-03	1	80%	20%	0%	9%	91%	0%	-7%	52%
11b	Separate x1 Mid	1.00E-04	100	8	69	69	68	1.90E-03	1	87%	13%	0%	61%	39%	0%		
12a	Lumped x1 WY	1.00E-04	100	8	69	69	68	1.90E-03	1	80%	20%	0%	0%	79%	20%	-7%	5%
12b	Separate x1 WY	1.00E-04	100	8	69	69	68	1.90E-03	1	87%	13%	0%	5%	95%	0%		
13a	Lumped x1 Mid	1.00E-06	100	8	69	69	68	1.90E-03	1	100%	0%	0%					
13b	Separate x1 Mid	1.00E-06	100	8	69	69	68	1.90E-03	1	100%	0%	0%					
14a	Lumped x1 WY	1.00E-06	100	8	69	69	68	1.90E-03	1	100%	0%	0%					
14b	Separate x1 WY	1.00E-06	100	8	69	69	68	1.90E-03	1	100%	0%	0%					
15a	Lumped x1 Mid	2.50E-05	100	8	69	69	68	1.90E-03	1	100%	0%	0%	2%	98%	0%	0%	85%
15b	Separate x1 Mid	2.50E-05	100	8	69	69	68	1.90E-03	1	100%	0%	0%	87%	13%	0%		
16a	Lumped x1 WY	2.50E-05	100	8	69	69	68	1.90E-03	1	100%	0%	0%	0%	99%	1%	0%	0%
16b	Separate x1 WY	2.50E-05	100	8	69	69	68	1.90E-03	1	100%	0%	0%	0%	100%	0%		
17a	Lumped x3 Mid	5.00E-05	100	8	68	68	204	1.90E-03	3	90%	10%	0%	4%	96%	0%	-9%	84%
17b	Separate x3 Mid	5.00E-05	100	8	68	68	204	1.90E-03	3	99%	1%	0%	89%	11%	0%		
18a	Lumped x3 WY	5.00E-05	100	8	68	68	204	1.90E-03	3	90%	10%	0%	0%	86%	14%	-9%	7%
18b	Separate x3 WY	5.00E-05	100	8	68	68	204	1.90E-03	3	99%	1%	0%	7%	93%	0%		
19a	Lumped x5 Mid	5.00E-05	100	24	68	68	204	1.90E-03	5	63%	37%	0%	5%	91%	4%	-30%	86%
19b	Separate x5 Mid	5.00E-05	100	24	68	68	204	1.90E-03	5	92%	8%	0%	91%	9%	0%		
20a	Lumped x5 WY	5.00E-05	100	24	68	68	204	1.90E-03	5	63%	37%	0%	0%	23%	77%	-29%	49%
20b	Separate x5 WY	5.00E-05	100	24	68	68	204	1.90E-03	5	92%	8%	0%	49%	51%	0%		
21a	Lumped x11 Mid	5.00E-05	100	24	68	68	204	1.90E-03	11	63%	37%	0%	19%	81%	0%	-29%	73%
21b	Separate x11 Mid	5.00E-05	100	24	68	68	204	1.90E-03	11	92%	8%	0%	92%	8%	0%		
22a	Lumped x11 WY	5.00E-05	100	24	68	68	204	1.90E-03	11	63%	37%	0%	2%	84%	14%	-30%	87%
22b	Separate x11 WY	5.00E-05	100	24	68	68	204	1.90E-03	11	92%	8%	0%	88%	12%	0%		