

APPENDIX P

NOISE AND VIBRATION
INTERIM IMPLEMENTATION PHASE

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Table 1. Train Traffic Assumptions for Full Implementation

Line Segment	EF trains	EF length	EF locos	EF speed	EP trains	EP length	EP locos	EP speed	FF trains	FF length	FF locos	FF speed	FP trains	FP length	FP locos	FP speed
	qty.	ft	qty.	mph	qty.	ft	qty.	mph	qty.	ft	qty.	mph	qty.	ft	qty.	mph
A Chicago-Aurora	40	6000	3	45	102	700	1	60	60	6000	3	45	116	700	1	60
B Aurora-Wyanet	24	6000	3	45	8	800	2	70	36	6000	3	45	22	700	2	100
C Wyanet-Silvis	7	5300	2	35					14	8000	3	35	14	640	2	100
D Silvis-Rock Island	15	3400	2	5					22	6000	2	5	14	640	2	40
E Rock Island-Iowa City	6	6000	2	35					12	7000	3	35	14	640	2	100
F Iowa City	8	5900	2	5					14	6500	2	5	14	640	2	40
G Iowa City-E. Des Moines	6	6000	2	35					12	7000	3	35	14	640	2	100
H Des Moines	8	2500	2	10					14	6500	2	10	14	640	2	40
I W. Des Moines-Council Bluffs	5	5000	2	35					10	6000	3	35	14	640	2	100
J Council Bluffs-Omaha	60	8000	3	10					90	8000	3	10	14	640	2	40

Table 2. Train Traffic Assumptions for Interim Implementation Phase

Line Segment	EF trains	EF length	EF locos	EF speed	EP trains	EP length	EP locos	EP speed	FF trains	FF length	FF locos	FF speed	FP trains	FP length	FP locos	FP speed
	qty.	ft	qty.	mph	qty.	ft	qty.	mph	qty.	ft	qty.	mph	qty.	ft	qty.	mph
A Chicago-Aurora	40	6000	3	45	102	700	1	60	60	6000	3	45	110	700	1	60
B Aurora-Wyanet	24	6000	3	45	8	800	2	70	36	6000	3	45	16	700	2	70
C Wyanet-Silvis	7	5300	2	35					14	8000	3	35	8	640	2	70
D Silvis-Rock Island	15	3400	2	5					22	6000	2	5	8	640	2	40
E Rock Island-Iowa City	6	6000	2	35					12	7000	3	35	8	640	2	70
F Iowa City	8	5900	2	5					14	6500	2	5	8	640	2	40
G Iowa City-E. Des Moines	6	6000	2	35					12	7000	3	35	8	640	2	70
H Des Moines	8	2500	2	10					14	6500	2	10	8	640	2	40
I W. Des Moines-Council Bluffs	5	5000	2	35					10	6000	3	35	8	640	2	70

Note:

Line Segment J is not included for the interim implementation phase because service would not be established between Council Bluffs and Omaha.

**Table 3. Reduction in Noise Contour Distance (Feet) from Track Center
Under Interim Implementation Phase**

Noise Condition	Full Implementation Future Build Wayside Moderate	Full Implementation Future Build Wayside Severe	Full Implementation Future Build Horn Moderate	Full Implementation Future Build Horn Severe	Interim Implementation Phase Reduction in Future Build Wayside Moderate	Interim Implementation Phase Reduction in Future Build Wayside Severe	Interim Implementation Phase Reduction in Future Build Horn Moderate	Interim Implementation Phase Reduction in Future Build Horn Severe
1	476	272	828	525	-3	-2	-7	-6
2	494	285	853	546	-3	-2	-8	-6
3	417	299	656	397	-9	-9	-6	-5
4	382	211	609	364	-8	-5	-6	-4
5	333	182	541	318	-7	-5	-6	-4
6	408	188	511	404	-24	-11	-16	-20
7	256	173	449	256	-12	-10	-15	-10
8	482	278	913	594	-7	-4	-9	-7
9	434	247	843	540	-6	-4	-9	-7
10	361	166	476	363	-25	-11	-18	-20
11	234	154	419	236	-13	-11	-16	-11
12	227	118	409	229	-13	-7	-16	-10
13	430	242	835	531	-9	-6	-13	-10
14	322	177	666	412	-7	-5	-12	-9
15	359	166	475	362	-25	-11	-18	-20
16	223	146	402	226	-13	-10	-16	-10
17	286	202	606	366	-12	-11	-20	-14
18	254	135	550	327	-11	-7	-19	-13
19	370	175	589	357	-20	-10	-20	-14
20	331	153	454	338	-27	-12	-20	-21
21	271	127	367	204	-71	-10	-17	-4