

Appendix EE.12 – Noise and Vibration

Geography		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative	
State	County	Noise Level, Ldn (dBA) at 50 Feet (Min-Max Range)	Noise Level, Ldn (dBA) at 50 Feet (Min-Max Range)		Noise Level, Ldn (dBA) at 100 Feet (Min-Max Range)	Noise Level, Ldn (dBA) at 100 Feet (Min-Max Range)		Noise Level, Ldn (dBA) at 200 Feet (Min-Max Range)	Noise Level, Ldn (dBA) at 200 Feet (Min-Max Range)		Noise Level, Ldn (dBA) at 400 Feet (Min-Max Range)	Noise Level, Ldn (dBA) at 400 Feet (Min-Max Range)		Noise Level, Ldn (dBA) at 800 Feet (Min-Max Range)	Noise Level, Ldn (dBA) at 800 Feet (Min-Max Range)	
		Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future
DC	Washington, DC	77	77	80	68	68 - 69	71 - 72	64	64	66	61	61	62	60	60	61
MD	Prince Georges	77	77	80	72	72 - 73	75 - 76	65 - 68	65 - 68	68 - 71	60 - 63	60 - 63	63 - 67	56 - 59	56 - 59	58 - 62
MD	Anne Arundel	77	77	80	72	72	75 - 76	65 - 68	65 - 68	68 - 71	60 - 63	60 - 63	63 - 67	56 - 62	56 - 62	58 - 62
MD	Baltimore County	77 - 80	70 - 80	79 - 85	72 - 75	66 - 75	75 - 80	65 - 70	60 - 70	68 - 73	60 - 67	57 - 67	62 - 67	56 - 66	55 - 66	57 - 66
MD	Baltimore City	60 - 80	72 - 80	73 - 82	60 - 71	64 - 71	65 - 73	60 - 66	62 - 66	62 - 68	60 - 62	60 - 62	60 - 63	60 - 61	60 - 61	60 - 61
MD	Harford	76 - 80	50 - 80	77 - 85	71 - 75	50 - 75	72 - 80	64 - 71	50 - 71	65 - 74	60 - 66	50 - 66	60 - 70	56 - 62	50 - 62	57 - 65
MD	Cecil	79 - 80	50 - 80	78 - 85	74 - 75	50 - 75	74 - 80	67 - 70	50 - 71	67 - 76	62 - 65	50 - 66	61 - 71	57 - 61	50 - 62	57 - 67
DE	New Castle	74 - 79	55 - 79	76 - 87	66 - 74	55 - 74	68 - 82	62 - 67	55 - 67	64 - 75	58 - 62	55 - 62	60 - 69	56 - 60	55 - 60	56 - 62
PA	Delaware	74	71 - 74	70 - 82	66 - 70	66 - 70	63 - 78	62 - 63	62 - 63	59 - 71	58 - 61	58 - 62	57 - 66	56 - 60	56 - 61	55 - 62
PA	Philadelphia	60 - 77	70 - 77	70 - 83	60 - 69	64 - 69	63 - 74	60 - 64	61 - 66	61 - 69	60 - 61	60 - 66	60 - 66	60	60 - 65	60 - 66
PA	Bucks	76 - 77	76 - 77	79 - 80	71 - 72	71 - 72	75	64 - 67	64 - 67	67 - 70	60 - 63	60 - 63	62 - 66	56 - 58	56 - 58	57 - 61
NJ	Mercer	76 - 77	77	80	68 - 73	69 - 73	71 - 76	64 - 66	64 - 66	66 - 68	61	61	62 - 63	57 - 60	57 - 60	58 - 61
NJ	Middlesex	77 - 78	55 - 78	73 - 81	69 - 74	55 - 74	66 - 76	65 - 66	55 - 66	62 - 69	61	55 - 61	58 - 63	57 - 60	55 - 60	56 - 60
NJ	Union	79	79 - 79	77 - 82	75	75	72 - 77	67	67	65 - 70	62	62 - 62	60 - 64	57	57	57 - 59
NJ	Essex	79	79 - 79	77 - 82	70 - 71	70 - 71	69 - 73	65 - 66	65 - 66	64 - 68	62	62	61 - 63	60 - 61	60 - 61	60 - 61
NJ	Hudson	60 - 80	80	83	60 - 75	71 - 75	75 - 79	60 - 68	67 - 68	69 - 71	60 - 64	63 - 64	65 - 66	58 - 63	58 - 63	60 - 64
NY	New York	60 - 77	77	83	60 - 73	73	79	60 - 65	65	71	60	60	66	57 - 60	57	60
NY	Kings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NY	Queens	60 - 76	60 - 76	74 - 83	60 - 68	60 - 68	66 - 74	60 - 64	60 - 64	64 - 69	60 - 61	60 - 63	61 - 63	60	60 - 63	60 - 63
NY	Bronx	72 - 76	72 - 76	76 - 83	65 - 68	65 - 68	67 - 75	61 - 65	61 - 65	63 - 69	58 - 63	58 - 63	61 - 64	56 - 63	56 - 63	57 - 63
NY	Westchester	74 - 76	70 - 76	76 - 83	70 - 71	66 - 71	72 - 79	63 - 64	60 - 64	65 - 71	58 - 59	57 - 59	60 - 66	56	55 - 56	56 - 60
CT	Fairfield	73 - 76	70 - 76	75 - 82	65 - 71	65 - 71	68 - 78	62 - 64	60 - 64	63 - 70	58 - 61	57 - 61	59 - 65	56 - 60	55 - 60	56 - 61
CT	New Haven	55 - 75	73 - 75	77 - 80	55 - 70	65 - 70	69 - 75	55 - 64	62 - 64	64 - 68	55 - 60	58 - 60	61 - 64	55 - 60	56 - 60	57 - 60
CT	Hartford		71 - 78	75 - 83		64 - 74	67 - 78		60 - 69	63 - 74		57 - 65	59 - 69		55 - 60	56 - 65
CT	Middlesex	73	73	77	68	68	73	67	62	66	58	58	61	56	56	57
CT	New London	50 - 79	50 - 79	72 - 78	50 - 75	50 - 75	68 - 74	50 - 68	50 - 68	62 - 69	50 - 62	50 - 62	58 - 64	50 - 57	50 - 57	56 - 60
RI	Washington	50 - 74	50 - 74	73 - 78	50 - 69	50 - 69	68 - 73	50 - 63	50 - 63	62 - 69	50 - 58	50 - 58	58 - 64	50 - 56	50 - 56	56 - 60
RI	Kent	74 - 75	74 - 75	78	69 - 71	69 - 71	73 - 74	63 - 65	63 - 65	66 - 68	58 - 63	58 - 63	61 - 64	56 - 61	56 - 61	57 - 62
RI	Providence	60 - 75	72 - 75	77 - 78	60 - 71	65 - 71	69 - 74	60 - 64	62 - 64	64 - 67	59 - 61	59 - 61	61	56 - 60	56 - 60	57 - 60
MA	Bristol	72	72	78	68	68	73	61	61	66	58	58	61	56	56	57
MA	Norfolk	72	72	78	67 - 68	67 - 68	73	61	61	66	57 - 58	57 - 58	61	56	56	57
MA	Suffolk	60 - 76	69 - 76	74 - 80	60 - 68	63 - 68	66 - 74	60 - 63	61 - 63	62 - 66	58 - 61	58 - 61	61 - 62	56 - 60	56 - 60	57 - 61
MA	Hampden		74 - 78	76 - 83		66 - 73	68 - 78		62 - 69	64 - 74		60 - 65	61 - 69	0	57 - 60	59 - 65

Geography		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative		Existing NEC including Hartford/Springfield Line	Preferred Alternative	
State	County	Vibration Level (VdB) at 50 Feet (Min-Max Range)	Vibration Level (VdB) at 50 Feet (Min-Max Range)		Vibration Level (VdB) at 100 Feet (Min-Max Range)	Vibration Level (VdB) at 100 Feet (Min-Max Range)		Vibration Level (VdB) at 200 Feet (Min-Max Range)	Vibration Level (VdB) at 200 Feet (Min-Max Range)		Vibration Level (VdB) at 300 Feet (Min-Max Range)	Vibration Level (VdB) at 300 Feet (Min-Max Range)	
		Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future	Predicted Existing	Predicted Existing	Predicted Future
DC	Washington, DC	93	93	93	87	87	87	79	79	79	75	75	75
MD	Prince Georges	93	93	93	87	87	87	79	79	79	75	75	75
MD	Anne Arundel	93	93	93	87	87	87	79	79	79	75	75	75
MD	Baltimore County	93	68 - 93	76 - 93	87	61 - 87	70 - 87	79	55 - 79	63 - 79	75	50 - 75	59 - 75
MD	Baltimore City	50 - 93	50 - 93	93 - 93	50 - 87	50 - 87	87	50 - 79	50 - 79	79 - 79	50 - 75	50 - 75	75
MD	Harford	93	50 - 93	76 - 93	87	50 - 87	70 - 87	79	50 - 79	63 - 79	75	50 - 75	59 - 75
MD	Cecil	93	50 - 93	76 - 93	87	50 - 87	70 - 87	79	50 - 79	63 - 79	75	50 - 75	59 - 75
DE	New Castle	93	50 - 93	83 - 93	87	50 - 87	77 - 87	79	50 - 79	69 - 79	75	50 - 75	65 - 75
PA	Delaware	93	85 - 93	85 - 93	87	79 - 87	79 - 87	79	72 - 79	72 - 79	75	67 - 75	67 - 75
PA	Philadelphia	93	85 - 93	83 - 93	87	79 - 87	77 - 87	79	72 - 79	69 - 79	75	67 - 75	65 - 75
PA	Bucks	93	93	93	87	87	87	79	79	79	75	75	75
NJ	Mercer	93	93	93	87	87	87	79	79	79	75	75	75
NJ	Middlesex	93	50 - 93	92 - 93	87	50 - 87	85 - 87	79	50 - 79	78 - 79	75	50 - 75	74 - 75
NJ	Union	93	93	92 - 93	87	87	85 - 87	79	79	78 - 79	75	75	74 - 75
NJ	Essex	93	93	92 - 93	87	87	85 - 87	79	79	78 - 79	75	75	74 - 75
NJ	Hudson	93	93	93	87	87	87	79	79	79	75	75	75
NY	New York	83 - 93	83 - 93	83 - 93	77 - 87	77 - 87	77 - 87	69 - 79	69 - 79	69 - 79	65 - 75	65 - 75	65 - 75
NY	Kings	-	50	93	-	50	87	-	50	79	-	50	75
NY	Queens	83 - 93	50 - 93	83 - 93	77 - 87	50 - 87	77 - 87	69 - 79	50 - 79	69 - 79	65 - 75	50 - 75	65 - 75
NY	Bronx	83 - 93	83 - 93	83 - 93	77 - 87	77 - 87	77 - 87	69 - 79	69 - 79	69 - 79	65 - 75	65 - 75	65 - 75
NY	Westchester	93	68 - 93	83 - 93	87	61 - 87	77 - 87	79	55 - 79	69 - 79	75	50 - 75	65 - 75
CT	Fairfield	93	68 - 93	83 - 93	87	61 - 87	77 - 87	79	55 - 79	69 - 79	75	50 - 75	65 - 75
CT	New Haven	93	93	92 - 93	87	87 - 87	85 - 87	79	79	78 - 79	75	75	74 - 75
CT	Hartford	83 - 93	83 - 93	83 - 93	77 - 87	77 - 87	77 - 87	69 - 79	69 - 79	69 - 79	65 - 75	65 - 75	65 - 75
CT	Middlesex	93	93	92	87	87	85	79	79	78	75	75	74
CT	New London	50 - 93	50 - 93	73 - 85	50 - 87	50 - 87	67 - 79	50 - 79	50 - 79	60 - 72	50 - 75	50 - 75	56 - 67
RI	Washington	50 - 93	50 - 93	73 - 92	50 - 87	50 - 87	67 - 85	50 - 79	50 - 79	60 - 78	50 - 75	50 - 75	56 - 74
RI	Kent	93	93	92	87	87	85	79	79	78	75	75	74
RI	Providence	93	93	92	87	87	85	79	79	78	75	75	74
MA	Bristol	93	93	92	87	87	85	79	79	78	75	75	74
MA	Norfolk	93	93	92	87	87	85	79	79	78	75	75	74
MA	Suffolk	93	93	92 - 93	87	87	85 - 87	79	79	78 - 79	75	75	74 - 75
MA	Hampden	93	93	93	87	87	87	79	79	79	75	75	75