

Appendix 4.11 Calculations of Operation Noise Levels (Unmitigated Scenario)

				Predicted Noise Level in 2040 PM PEAK, L _{10(1hour)} , dB(A)		
				Unmitigated Scenario		
NAP ID	Floor	NAP Level, mPD	Road Traffic Noise Criteria, dB(A)	Predicted Overall Noise Level, dB(A)	Predicted Maximum Noise Level, dB(A)	Noise Exceedance
N01	1/F	8.2	65	74.2	74.2	Y
N02	1/F	7.2	70	64.3	64.3	N
N03	1/F	9.0	70	71.0	71.0	Y
N03	2/F	11.8	70	72.4	72.4	Y
N04	1/F	9.9	70	64.8	64.8	Y
N04	2/F	12.7	70	68.8	68.8	Y
N04	3/F	15.5	70	71.7	71.7	Y
N05	1/F	8.9	70	73.3	73.3	Y
N05	2/F	11.7	70	74.9	74.9	Y
N06	1/F	10.8	70	80.7	80.7	Y
N07	1/F	11.7	70	77.9	77.9	Y
N07	2/F	14.5	70	78.9	78.9	Y
N07	3/F	17.3	70	79.0	79.0	Y
N08	1/F	11.9	70	69.6	69.6	Y
N08	2/F	14.7	70	73.2	73.2	Y
N09a	1/F	10.9	70	69.7	69.7	Y
N09a	2/F	13.7	70	72.9	72.9	Y
N09b	1/F	10.9	70	72.5	72.5	Y
N09b	2/F	13.7	70	73.3	73.3	Y
N09b	3/F	16.5	70	74.0	74.0	Y
N10	1/F	12.7	70	68.7	68.7	N
N10	2/F	15.5	70	69.2	69.2	N
N11	1/F	14.6	70	76.2	76.2	Y
N11	2/F	17.4	70	79.9	79.9	Y
N12	1/F	14.1	70	74.8	74.8	Y
N12	2/F	16.9	70	75.4	75.4	Y
N13	1/F	13.5	70	76.0	76.0	Y
N13	2/F	16.3	70	76.7	76.7	Y
N14	1/F	16.0	70	76.7	76.7	Y
N14	2/F	18.8	70	77.3	77.3	Y
N15	1/F	15.8	70	79.8	79.8	Y
N15	2/F	18.6	70	80.9	80.9	Y
N16	1/F	16.8	70	75.1	75.1	Y
N16	2/F	19.6	70	75.8	75.8	Y
N17	1/F	17.2	70	78.0	78.0	Y
N17	2/F	20.0	70	80.9	80.9	Y
N18	1/F	18.0	70	74.8	74.8	Y
N18	2/F	20.8	70	75.6	75.6	Y
N18	3/F	23.6	70	76.1	76.1	Y
N19	1/F	18.2	70	71.2	71.2	Y
N20	1/F	19.7	70	73.0	73.0	Y
N20	2/F	22.5	70	74.0	74.0	Y
N20	3/F	25.3	70	74.5	74.5	Y
N21	1/F	20.2	70	77.1	77.1	Y
N21	2/F	23.0	70	78.0	78.0	Y
N22	1/F	19.6	70	74.8	74.8	Y
N22	2/F	22.4	70	76.6	76.6	Y
N22	3/F	25.2	70	77.2	77.2	Y
N23	1/F	22.2	70	73.1	73.1	Y
N24	1/F	22.2	70	76.5	76.5	Y
N24	2/F	25.0	70	77.4	77.4	Y
N24	3/F	27.8	70	77.6	77.6	Y
N25	1/F	22.9	70	77.1	77.1	Y
N25	2/F	25.7	70	77.9	77.9	Y
N25	3/F	28.5	70	77.8	77.8	Y
N26	1/F	23.0	70	75.6	75.6	Y
N26	2/F	25.8	70	76.3	76.3	Y
N26	3/F	28.6	70	76.5	76.5	Y
N27	1/F	23.9	70	71.2	71.2	Y
N27	2/F	26.7	70	71.7	71.7	Y
N27	3/F	29.5	70	72.1	72.1	Y
N28	1/F	24.3	70	75.6	75.6	Y
N28	2/F	27.1	70	76.5	76.5	Y
N28	3/F	29.9	70	76.7	76.7	Y
N29	1/F	25.3	70	73.0	73.0	Y
N29	2/F	28.1	70	73.7	73.7	Y
N29	3/F	30.9	70	74.1	74.1	Y
N30	1/F	25.0	70	75.6	75.6	Y
N30	2/F	27.8	70	76.5	76.5	Y

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NAP ID	Floor	NAP Level, mPD	Road Traffic Noise Criteria, dB(A)	Predicted Overall Noise Level, dB(A)	Predicted Maximum Noise Level, dB(A)	Noise Exceedance
N31	1/F	25.6	70	73.4	74.6	Y
N31	2/F	28.4	70	74.2		
N31	3/F	31.2	70	74.6		
N32	1/F	29.4	70	75.3	76.1	Y
N32	2/F	32.2	70	76.1		
N33	1/F	38.8	70	72.8	75.0	Y
N33	2/F	41.6	70	74.3		
N33	3/F	44.4	70	75.0		
N34	1/F	43.0	70	74.0	74.7	Y
N34	2/F	45.8	70	74.7		
N35	1/F	42.6	70	73.0	74.3	Y
N35	2/F	45.4	70	74.3		
N36	1/F	47.7	70	73.9	75.0	Y
N36	2/F	50.5	70	74.6		
N36	3/F	53.3	70	75.0		
N37	1/F	47.7	70	73.2	74.9	Y
N37	2/F	50.5	70	74.1		
N37	3/F	53.3	70	74.9		
N38	1/F	46.7	70	73.5	73.5	Y
N39	1/F	45.0	70	81.9	82.1	Y
N39	2/F	47.8	70	82.1		
N40	1/F	45.8	70	76.6	77.8	Y
N40	2/F	48.6	70	77.6		
N40	3/F	51.4	70	77.8		
N41	1/F	47.8	70	77.7	78.5	Y
N41	2/F	50.6	70	78.5		
N42	1/F	46.5	70	76.0	77.0	Y
N42	2/F	49.3	70	77.0		
N43	1/F	49.5	70	76.1	76.1	Y
N43	2/F	52.3	70	76.0		
N43	3/F	55.1	70	76.0		
N44	1/F	51.0	70	75.1	76.0	Y
N44	2/F	53.8	70	75.8		
N44	3/F	56.6	70	76.0		
N45	1/F	52.4	70	73.7	74.9	Y
N45	2/F	55.2	70	74.5		
N45	3/F	58.0	70	74.9		
N46	1/F	56.4	70	74.6	74.6	Y
N46	2/F	59.2	70	74.6		
N46	3/F	62.0	70	74.5		
N47	1/F	59.9	70	67.3	69.4	N
N47	4/F	68.3	70	68.8		
N47	7/F	76.7	70	69.4		
N48	1/F	71.4	70	66.3	66.6	N
N48	2/F	74.2	70	66.6		
N49	1/F	53.1	70	65.8	65.8	N
N50	1/F	63.2	70	67.8	67.8	N
N51	1/F	71.5	70	69.6	69.6	N
N52	1/F	84.1	70	66.8	68.7	N
N52	2/F	86.9	70	68.7		
N53	1/F	102.5	70	67.9	67.9	N
N54	1/F	135.7	70	70.2	72.1	Y
N54	2/F	138.5	70	72.1		
N55	1/F	151.6	70	74.9	74.9	Y
N56	1/F	171.2	N/A	N/A	N/A	N/A
N57	1/F	158.7	70	73.5	73.5	Y

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NAP ID	Floor	NAP Level, mPD	Road Traffic Noise Criteria, dB(A)	Predicted Overall Noise Level, dB(A)	Predicted Maximum Noise Level, dB(A)	Noise Exceedance
P01	1/F	9.0	70	79.6	80.0	Y
P01	2/F	11.8	70	80.0		
P01	3/F	14.6	70	79.9		
P02	1/F	8.0	70	67.7	74.9	Y
P02	2/F	10.8	70	70.3		
P02	3/F	13.6	70	74.9		
P03	1/F	9.1	70	78.5	78.5	Y
P03	2/F	12.1	70	78.5		
P04	1/F	8.8	70	79.7	79.7	Y
P04	2/F	11.6	70	79.6		
P04	3/F	14.4	70	79.5		
P05	1/F	9.4	70	81.9	82.2	Y
P05	2/F	12.2	70	82.2		
P05	3/F	15.0	70	81.5		
P06	1/F	11.1	70	82.1	82.3	Y
P06	2/F	14.1	70	82.3		
P07	1/F	10.3	70	74.1	76.5	Y
P07	2/F	13.3	70	75.7		
P07	3/F	16.3	70	76.5		
P08	1/F	24.0	70	79.3	80.0	Y
P08	2/F	26.8	70	80.0		
P08	3/F	29.6	70	79.6		
P09	1/F	26.7	70	82.0	82.3	Y
P09	2/F	29.5	70	82.3		
P09	3/F	32.3	70	81.7		
P10	1/F	30.6	70	79.2	79.8	Y
P10	2/F	33.4	70	79.8		
P10	3/F	36.2	70	79.6		
P11	1/F	32.9	70	82.0	82.0	Y
P11	2/F	35.9	70	81.6		
P12	1/F	53.9	70	79.4	79.4	Y
P12	2/F	56.9	70	79.1		
P13	1/F	47.4	70	81.7	82.2	Y
P13	2/F	50.2	70	82.2		
P13	3/F	53.0	70	81.4		
P14	1/F	51.9	70	82.1	82.2	Y
P14	2/F	54.7	70	82.2		
P14	3/F	57.5	70	81.5		