Noise Model Based on Federal Transit Adminstration General Transit Noise Assessment
Developed for Chicago Create Project
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Case:

RESULTS		
Noise Source	**Ldn (dB)**	**Leq - daytime (dB)**
All Sources	Enter Land Use	
Source 1		
Source 2		
Source 3		
Source 4		
Source 5		
Source 6		
Source 7		
Source 8		

Enter noise receiver land use category below.

LAND USE CATEGORY
Noise receiver land use category (1, 2 or 3)

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS		
Parameter	**Source 1**	**Source 2**
Source Num.		
Distance (source to receiver)		
Daytime Hours (7 AM - 10 PM)		
Nighttime Hours (10 PM - 7 AM)		
Wheel Flats?		
Jointed Track?		

Leq - nighttime (dB)

Source 3	Source 4	Source 5

Source 6	Source 7	Source 8

CALCULATIONS								
Term	**Sou 1**	**Sou 2**	**Sou 3**	**Sou 4**	**Sou 5**	**Sou 6**	**Sou 7**	**Sou 8**
SELref	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Coef	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Denom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Day Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1 - Night Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C1 - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C1 - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Coef	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Denom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Day Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2 - Night Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2 - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C2 - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Coef	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Denom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Day Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3 - Night Num	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3 - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C3 - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leq50ft - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leq50ft - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ldn50ft	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

REFERENC
Num
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

E DATA

			Term 1				Term 2		
Desc	**Ref SEL**	**Dist Term**	**Desc**	**Denom**	**Min**	**Coef**	**Desc**	**Denom**	**Min**
	0	0		0	0	0			
Commuter Electric Locomotive	90	15	speed (mph)	50	20	10.0	trains/hour	1	0.01
Commuter Diesel Locomotive	92	15	speed (mph)	50	20	-10.0	trains/hour	1	0.01
Commuter Rail Cars	82	15	speed (mph)	50	20	20.0	trains/hour	1	0.01
RRT/LRT	82	15	speed (mph)	50	20	20.0	trains/hour	1	0.01
AGT, Steel Wheel	80	15	speed (mph)	50	20	20.0	trains/hour	1	0.01
AGT, Rubber Tire	78	15	speed (mph)	50	20	20.0	trains/hour	1	0.01
Monorail	82	15	speed (mph)	50	20	20.0	trains/hour	1	0.01
Maglev	72	15	speed (mph)	50	20	20.0	trains/hour	1	0.01
Freight Locomotive	97	15	speed (mph)	40	20	10.0	trains/hour	1	0.01
Freight Cars	100	15	speed (mph)	40	20	20.0	trains/hour	1	0.01
Hopper Cars (empty)	104	15	speed (mph)	40	20	20.0	trains/hour	1	0.01
Hopper Cars (full)	100	15	speed (mph)	40	20	20.0	trains/hour	1	0.01
Crossover	100	25	trains/hour	1	0.01	10.0	on of one trai	3600	0.01
Automobiles	73	15	speed (mph)	50	30	28.1	vehicles/hour	1	0.01
City Buses	84	15	speed (mph)	50	30	23.9	vehicles/hour	1	0.01
Commuter Buses	88	15	speed (mph)	50	30	14.6	vehicles/hour	1	0.01
Rail Yard or Shop	118	25	trains/hour	20	0.01	10.0			
Layover Tracks	109	25	trains/hour	1	0.01	10.0			
Bus Storage Yard	111	25	buses/hour	100	0.01	10.0			
Bus Op. Facility	114	25	buses/hour	200	0.01	10.0	es serviced/h	60	0.01

Coef	Term 3 Desc	Denom	Min	Coef	Jointed	Embedded	Aerial	Barrier	Combine 1&2?
10.0	locos/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
10.0	locos/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
10.0	cars/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
10.0	cars/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
10.0	cars/train	1	1	10				-5.0	0.0
10.0	cars/train	1	1	10				-5.0	0.0
10.0	cars/train	1	1	10				-5.0	0.0
10.0	cars/train	1	1	10			4.0	-5.0	0.0
10.0	locos/train	1	1	10	5.0	3.0	4.0	-5.0	0.0
10.0	h of cars (ft) /	2000	40	10	5.0	3.0	4.0	-5.0	0.0
10.0	h of cars (ft) /	2000	40	10	5.0	3.0	4.0	-5.0	0.0
10.0	h of cars (ft) /	2000	40	10	5.0	3.0	4.0	-5.0	0.0
10.0						3.0	4.0	-5.0	0.0
10.0								-5.0	0.0
10.0								-5.0	0.0
10.0								-5.0	0.0
								-5.0	0.0
								-5.0	0.0
								-5.0	0.0
10.0								-5.0	1.0

Embedded Track?				
Aerial Structure?				
Barrier Present?				
Intervening Rows of of Buildings				

SOURCE REFERENCE LIST	
Source	**Number**
Commuter Electric Locomotive	1
Commuter Diesel Locomotive	2
Commuter Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Freight Locomotive	9
Freight Cars	10
Hopper Cars (empty)	11
Hopper Cars (full)	12
Crossover	13
Automobiles	14
City Buses	15
Commuter Buses	16
Rail Yard or Shop	17
Layover Tracks	18
Bus Storage Yard	19
Bus Op. Facility	20
Bus Transit Center	21
Parking Garage	22
Park & Ride Lot	23

Dist Coef	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adj. Dist	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adj. Wheel Flats	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adj. Jointed	0	0	0	0	0	0	0	0
Adj. Embed	0	0	0	0	0	0	0	0
Adj. Aerial	0	0	0	0	0	0	0	0
Adj. Shield	0	0	0	0	0	0	0	0
Leq - Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leq - Night	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ldn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Need Land Use	1							
Calc Leq	0							

21
22
23

Category
0
1
2
3

Bus Transit Center	101	25	buses/hour	20	0.01	10.0			
Parking Garage	92	25	autos/hour	1000	0.01	10.0			
Park & Ride Lot	101	25	autos/hour	2000	0.01	10.0	buses/hour	24	0.01

LAND USE DATA
Ldn/Leq
Leq
Ldn
Leq

	-5.0	0.0
	-5.0	0.0
10.0	-5.0	1.0