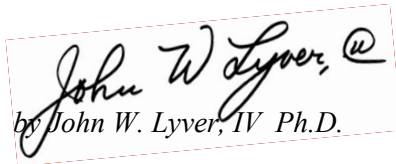


Data Center Noise Study Results

for

Prince William County



by John W. Lyver, IV Ph.D.

Original Issue: December 31, 2022

Update #1: February 20, 2023 (with list of data centers and model updates)

Update #2: May 3, 2023 (with sensitivity studies and multiple cooling types)

Update #3: July 23, 2023 (with updated noise predictions and new MNBP Choropleth)

Update #4: September 9, 2023 (with updated data center parcel information, Substation noise, and updated noise readings from AWS Tanner Way data center buildings)

Update #5: October 15, 2023 (Added Mid-County analyses, updated PWDG and added Substations)

Update #6: December 26, 2023 (Added all Data center related Substations, added Heritage Hunt Noise monitoring survey, and other minor updates)

*Update #6A: February 25, 2024 The update contains **ONLY** Appendix IV data from of the base report.*

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List of Abbreviations

dB	Decibel [Also: dB(A)]
DAHU	Data Air Handling Unit
DC	Data Center(s) [buildings]
Ele	Elementary (as in Elementary School)
ES	Elementary School
HOA	Homeowners Association
HS	High School
Hz	Hertz (aka: cycles per second)
MCPS	Manassas City Public Schools
MS	Middle School
NoVa	Northern Virginia
NT	Non-Traditional School
PACE	Positive Attitude and Commitment to Education
PWC	Prince William County
PWCPS	PWC Public Schools
P-MC	Private Schools in City of Manassas
P-PWC	Private Schools in PWC
sq ft	Square Feet

Appendix IV: Raw Data from Computer Model

During March and April of 2023, the author has been performing sensitivity studies and expanding the modeling capabilities of the computer models that are being used to produce this noise study report. The refinement of the models and sensitivity analyses continued throughout 2023 and into 2024. The data in this Appendix is as of **February 25, 2024**, and will change slightly over time as the modeling matures.

The data in this Appendix **MUST** be considered as the raw, unfiltered data and is released for publication in this document **ONLY**. All data in this Appendix is under strict copyright protections of the author. However, it may be used by the members of the Western PWC HOA Roundtable, the “Cross-County Data Center Impacts & Design Standards Working Group”, and those involved with the legal actions from the Gainesville Citizens for Smart Growth, the Virginia Oaks HOA, and Protect Fauquier.

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Listing of updates and enhancements incorporated so far:

- 1) Locations of operating data center buildings have been verified and positioned to calculate noise from the “center of noise generating” in the modeling.
- 2) New locations have been added to the analysis include new neighborhoods and new schools.
- 3) Updated DC building status and base data for operating and planned buildings.
- 4) Computer modeling expanded/upgraded to provide for improved modeling predictions:
 - a. Allow for different type of noise generation among DC buildings for Forced Air Cooling, and Condenser/DAHU type cooling. Work continuing on studies for Condenser type cooling noise levels and atmospheric attenuation.
 - b. Substations can now be modeled. Work continuing on noise level definitions.
 - c. Background noise added for locations where background readings have not been taken using the average background noise recorded in Heritage Hunt less one standard deviation. The computer modeling can adjust the standard deviation reduction/addition.
 - d. Different attenuation rates of the noise. Appendix III of this report discussed the sensitivity studies performed for Forced Air Cooling. Sensitivity was done on attenuation vs Hz, air temperature, humidity, and changes in total energy vs Hz ratios as they vary with distance. The most conservative of the results has been incorporated.
 - e. More building options such as size, floors, and status.
 - f. Updated printouts/reporting.
- 5) Computer model runs faster (0.05 – 0.30 seconds)

Raw Data from MATLAB™ Models are Provided in Five Tables

Please note that the 5 tables below are minimally formatted as base data from the computer model. Data users will need to interpret the data as needed. With each table is an explanation of how to interpret the data.

- Table 1: Noise Prediction Average for each Neighborhood Small Area
- Table 2: Noise Prediction for each Neighborhood Small Area
- Table 3: Noise Predictions for each School
- Table 4: Noise Predictions for each Public Safety Facility
- Table 5: Data Center Types

• Table 1: Noise Prediction Average for each Neighborhood Small Area

- This table provides the **AVERAGE** noise level prediction for each ‘neighborhood’ (aka: small area) set of locations. The small areas are described in the base report.
- To read Table 1, an example is provided:

Neighborhood: (1) Heritage Hunt HOA	[43 locations]
Bkgrnd: 54.4	Operating DC: 44.1 Planned DC: 67.7 NET Noise: 67.9 Mult: 22.6
Closest DC (feet):	Operating: 9390 Planned: 1308

- **First Line:** Computer model reference number and name of neighborhood or small area and the number of locations modeled for that small area.
- **Second Line:** The average of the net dB(A) of ALL DCs within 3 miles that are operational or planned and the net noise when fully built-out for the small area. The “Mult” is the multiplier of the noise energy ($Watts/meter^2$) from background to full build-out of data centers. These predictions include the background noise either measured or from Heritage Hunt readings less one standard deviation.
- **Third Line:** Within the small area, the closest operational and planned data center buildings. The distances are calculated as the distance from the location to the “center of noise” for the DC building less a small modeling correction factor.

Table 1: Noise Prediction Average for each Neighborhood Small Area

as of: February 25, 2024

Note: Table 1 is 2 pages long	
Neighborhood: (1) Heritage Hunt HOA	[43 locations]
Bkgrnd: 59.6	Operating DC: 51.2 Planned DC: 66.9 NET Noise: 67.7 Mult: 6.5
Closest DC (feet):	Operating: 3540 Planned: 763
Neighborhood: (2) Piedmont HOA Area	[10 locations]
Bkgrnd: 62.7	Operating DC: 50.2 Planned DC: 67.5 NET Noise: 68.8 Mult: 4.1
Closest DC (feet):	Operating: 7027 Planned: 931
Neighborhood: (3) VA Gateway Center	[4 locations]
Bkgrnd: 65.7	Operating DC: 54.7 Planned DC: 69.3 NET Noise: 71.0 Mult: 3.4
Closest DC (feet):	Operating: 3265 Planned: 1081
Neighborhood: (4) Haymarket and East along VA 55	[8 locations]
Bkgrnd: 53.7	Operating DC: 51.2 Planned DC: 70.4 NET Noise: 70.5 Mult: 49.0
Closest DC (feet):	Operating: 4008 Planned: 122

Neighborhood: (5) VA Oaks area [7 locations]
 Bkgrnd: 54.7 Operating DC: 38.9 Planned DC: 67.7 NET Noise: 67.9 Mult: 21.2
 Closest DC (feet): Operating: 13628 Planned: 828

Neighborhood: (6) MNBP [12 locations]
 Bkgrnd: 59.5 Operating DC: 54.0 Planned DC: 65.9 NET Noise: 67.0 Mult: 5.7
 Closest DC (feet): Operating: 1150 Planned: 1708

Neighborhood: (7) Btwn MNBP & PWDG [5 locations]
 Bkgrnd: 57.3 Operating DC: 50.6 Planned DC: 67.1 NET Noise: 67.7 Mult: 10.8
 Closest DC (feet): Operating: 2564 Planned: 1252

Neighborhood: (8) Pageland CPA Area [4 locations]
 Bkgrnd: 66.0 Operating DC: 48.5 Planned DC: 72.5 NET Noise: 73.4 Mult: 5.5
 Closest DC (feet): Operating: 5604 Planned: 543

Neighborhood: (9) Arcadia Run Apts [3 locations]
 Bkgrnd: 64.3 Operating DC: 60.9 Planned DC: 71.1 NET Noise: 72.3 Mult: 6.3
 Closest DC (feet): Operating: 1046 Planned: 753

Neighborhood: (10) Great Oak HOA [8 locations]
 Bkgrnd: 47.0 Operating DC: 57.7 Planned DC: 66.2 NET Noise: 66.8 Mult: 96.3
 Closest DC (feet): Operating: 802 Planned: 1592

Neighborhood: (11) Manassas - North of Tanner Way [1 locations]
 Bkgrnd: 47.0 Operating DC: 56.9 Planned DC: 66.0 NET Noise: 66.6 Mult: 91.4
 Closest DC (feet): Operating: 1286 Planned: 1459

Neighborhood: (12) Amberleigh Station HOA Area [7 locations]
 Bkgrnd: 47.0 Operating DC: 55.3 Planned DC: 73.5 NET Noise: 73.6 Mult: 466.6
 Closest DC (feet): Operating: 2079 Planned: 243

Neighborhood: (13) Across Linton Hall from Amb Station [4 locations]
 Bkgrnd: 47.0 Operating DC: 53.9 Planned DC: 69.7 NET Noise: 69.8 Mult: 192.5
 Closest DC (feet): Operating: 2293 Planned: 879

Neighborhood: (14) Lanier Farms Area [6 locations]
 Bkgrnd: 47.0 Operating DC: 57.5 Planned DC: 70.6 NET Noise: 70.8 Mult: 243.3
 Closest DC (feet): Operating: 2706 Planned: 1204

Neighborhood: (15) The Landing [3 locations]
 Bkgrnd: 47.0 Operating DC: 59.2 Planned DC: 71.2 NET Noise: 71.5 Mult: 284.0
 Closest DC (feet): Operating: 1520 Planned: 357

Neighborhood: (16) Regency Apartments [3 locations]
 Bkgrnd: 64.3 Operating DC: 70.2 Planned DC: 74.2 NET Noise: 76.0 Mult: 14.9
 Closest DC (feet): Operating: 121 Planned: 167

Neighborhood: (17) Gainesville MS Area [4 locations]
 Bkgrnd: 46.8 Operating DC: 58.0 Planned DC: 68.6 NET Noise: 68.9 Mult: 167.1
 Closest DC (feet): Operating: 712 Planned: 1585

Neighborhood: (18) QTS-S NSR [4 locations]
 Bkgrnd: 50.1 Operating DC: 52.2 Planned DC: 69.8 NET Noise: 69.9 Mult: 97.7
 Closest DC (feet): Operating: 3790 Planned: 393

Neighborhood: (19) Mid-County [2 locations]
 Bkgrnd: 47.0 Operating DC: 0.0 Planned DC: 70.3 NET Noise: 70.3 Mult: 216.9
 Closest DC (feet): Operating: 32912 Planned: 172

Neighborhood: (20) QTS-N NSR [4 locations]
 Bkgrnd: 43.0 Operating DC: 41.4 Planned DC: 72.2 NET Noise: 72.2 Mult: 843.6
 Closest DC (feet): Operating: 13133 Planned: 243

Neighborhood: (21) Plaintiffs [11 locations]
 Bkgrnd: 55.6 Operating DC: 46.5 Planned DC: 67.3 NET Noise: 67.6 Mult: 16.0
 Closest DC (feet): Operating: 5342 Planned: 710

Neighborhood: (22) Carter's Mill [4 locations]
 Bkgrnd: 47.0 Operating DC: 63.4 Planned DC: 65.0 NET Noise: 67.3 Mult: 108.7
 Closest DC (feet): Operating: 319 Planned: 138

- Table 2: Noise Prediction for each Neighborhood Small Area

- This table provides the detailed noise level predictions for each ‘neighborhood’ (aka: small area) set of locations. Small areas are described in the base report.
- To read Table 2, an example is provided:

***** Neighborhood: Heritage Hunt HOA *****									
Location	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier	
HH Clubhouse		50.5	0.0	0.0	45.3	45.3			
Portico	(#1101)		61.4	64.9	61.1	67.6	67.7	52.6	
		counts:	0/10	0/23	6/31				
Closest DC (feet):			Operating:	10864	Planned:	3742			

- Left side: The name of the location, and below is the specific spot where the prediction was made for and the modeling reference number.
 - Remainder of First Line: The predicted or measured dB(A) of the background noise, and the operating DCs that are within 0-1 mile, 1-2 miles, and 2-3 miles and the total noise predicted from all currently operating DCs. Note that a noise reading of 0.0 dB(A) indicates no operating DCs within that distance band.
 - Remainder of Second Line: The predicted dB(A) planned DCs that will be within 0-1 mile, 1-2 miles, and 2-3 miles and the net noise predicted from all planned DCs. The end of the line is the net noise predicted when fully built out. Note that a noise reading of 0.0 dB(A) indicates no planned DCs within that distance band.
 - Third Line: The count of the ‘operational’/’planned’ DC buildings within the distance bands of 0-1 mile, 1-2 miles, and 2-3 miles.
 - Fourth Line: Within the small area, the closest operational and planned data center buildings. The distances are calculated as the distance from the location to the center of noise for the DC building less a small modeling correction.
- After all location data is presented for the small area neighborhood, the summary from Table 1 is provided for that small area.

Table 2: Noise Prediction for each Neighborhood Small Area

as of: February 25, 2024

Note: Table 2 is 12 pages long

Each Location dB(A): Bkgrnd 0-1 miles 1-2 miles 2-3 miles then total
 Row #1: Operating dBA Row #2: Planned dBA Row #3: counts Opr/Pln

***** Neighborhood: Heritage Hunt HOA *****									
Location	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier	
6305 Pasture View		58.8	0.0	49.8	44.3	50.9			
Driveway	(#1214)		59.1	65.4	58.6	67.0	67.7	7.8	
		counts:	0/5	1/49	5/23				
Closest DC (feet):			Operating:	6089	Planned:	2047			
13348 Fieldstone		57.6	0.0	50.5	45.2	51.6			
Driveway	(#1210)		64.7	64.9	59.3	68.4	68.8	13.2	
		counts:	0/10	1/40	6/27				
Closest DC (feet):			Operating:	5500	Planned:	763			
Adirondack & Fieldstone		56.8	0.0	49.8	44.9	51.0			
Intersection	(#1200)		63.6	64.6	60.1	67.9	68.3	14.1	
		counts:	0/10	1/36	6/31				
Closest DC (feet):			Operating:	6087	Planned:	1264			

Affirmed Place		56.9	0.0	47.9	38.7	48.4		
North End	(#1201)		56.9	64.5	60.2	66.4	66.9	10.0
		counts:	0/3	1/36	2/30			
		Closest DC (feet):	Operating:	8049		Planned:	3602	
Alderwood Way		59.3	50.9	0.0	46.0	52.1		
South Bend	(#1202)		56.8	65.8	58.4	67.0	67.8	7.1
		counts:	1/4	0/49	7/24			
		Closest DC (feet):	Operating:	5221		Planned:	2155	
Avington Place & Tuscaroro		59.8	0.0	48.8	46.2	50.7		
Intersection	(#1203)		50.5	65.0	58.8	66.0	67.0	5.3
		counts:	0/1	1/46	6/25			
		Closest DC (feet):	Operating:	7063		Planned:	3992	
Barley Field Place		58.8	0.0	47.8	44.8	49.5		
Cul-de-Sac	(#1204)		49.3	63.9	60.4	65.6	66.5	5.9
		counts:	0/1	1/36	4/32			
		Closest DC (feet):	Operating:	8230		Planned:	4791	
Box Elder Loop		60.0	0.0	50.7	46.6	52.1		
Center	(#1205)		54.2	65.7	58.9	66.8	67.7	5.8
		counts:	0/2	1/48	7/27			
		Closest DC (feet):	Operating:	5366		Planned:	2852	
Charismatic & Majestic Prince		60.1	0.0	48.7	46.6	50.8		
Intersection	(#1206)		49.3	64.8	58.7	65.9	67.0	4.9
		counts:	0/1	1/43	6/24			
		Closest DC (feet):	Operating:	7208		Planned:	4774	
Cinch Lane		61.2	0.0	49.4	46.9	51.3		
Center	(#1207)		61.0	63.7	60.5	66.7	67.9	4.7
		counts:	0/5	1/37	6/34			
		Closest DC (feet):	Operating:	6469		Planned:	3940	
Culverhouse Ct		56.8	0.0	49.9	45.1	51.2		
East end	(#1208)		65.5	63.7	60.1	68.4	68.8	15.8
		counts:	0/13	1/33	6/31			
		Closest DC (feet):	Operating:	5986		Planned:	1011	
Cumberstone & Current		61.9	0.0	50.6	47.8	52.4		
Intersection	(#1209)		64.1	64.0	60.5	67.9	69.0	5.1
		counts:	0/9	2/32	6/34			
		Closest DC (feet):	Operating:	5453		Planned:	2532	
Driving Range		61.8	0.0	50.2	46.9	51.9		
Center	(#1319)		61.9	64.1	60.6	67.2	68.4	4.6
		counts:	0/5	1/36	6/35			
		Closest DC (feet):	Operating:	5758		Planned:	3525	
HH Blvd & Heritage Valley		58.3	0.0	49.3	46.1	51.0		
Intersection	(#1211)		53.9	65.1	59.0	66.3	67.0	7.4
		counts:	0/3	1/45	6/25			
		Closest DC (feet):	Operating:	6574		Planned:	3277	
HH Clubhouse		61.8	51.0	0.0	47.5	52.6		
Portico	(#1101)		61.5	64.7	59.8	67.2	68.5	4.6
		counts:	1/6	0/41	7/29			
		Closest DC (feet):	Operating:	5112		Planned:	3738	
HH Front Gate		62.0	51.4	28.0	49.3	53.5		
Sec Bldg	(#1103)		63.0	64.9	61.3	68.1	69.2	5.2
		counts:	1/6	1/35	10/42			
		Closest DC (feet):	Operating:	4811		Planned:	2690	
HH Marsh Mansion		57.8	0.0	49.1	38.6	49.5		
BBQ grill	(#1102)		58.8	65.2	58.7	66.8	67.4	9.1
		counts:	0/5	1/45	3/21			
		Closest DC (feet):	Operating:	6758		Planned:	2453	
HH Pickleball Courts		57.7	0.0	49.1	23.2	49.1		
Center	(#1104)		60.4	64.8	59.3	67.0	67.5	9.6
		counts:	0/6	1/41	2/24			
		Closest DC (feet):	Operating:	6747		Planned:	2282	
Hole 1		61.4	0.0	49.0	47.1	51.1		
Green	(#1301)		62.9	62.6	60.8	67.0	68.1	4.7
		counts:	0/9	1/29	6/38			
		Closest DC (feet):	Operating:	6925		Planned:	3225	
Hole 10		56.9	0.0	49.6	44.0	50.7		
Green	(#1310)		62.3	64.6	60.1	67.5	67.9	12.7
		counts:	0/7	1/39	5/31			
		Closest DC (feet):	Operating:	6294		Planned:	1654	
Hole 11		58.0	0.0	50.3	45.1	51.4		
Green	(#1311)		62.8	65.1	58.9	67.7	68.2	10.6
		counts:	0/7	1/46	6/24			
		Closest DC (feet):	Operating:	5698		Planned:	1203	

Hole 12		58.3	0.0	49.7	43.4	50.6		
Green	(#1312)		55.0	65.5	59.0	66.7	67.3	8.0
		counts:	0/3	1/48	4/26			
		Closest DC (feet):	Operating:	6204		Planned:	2703	
Hole 13		59.3	50.8	0.0	46.1	52.1		
Green	(#1313)		56.1	65.7	58.9	66.9	67.7	6.9
		counts:	1/4	0/47	7/25			
		Closest DC (feet):	Operating:	5257		Planned:	2444	
Hole 14		60.2	0.0	50.7	46.9	52.2		
Green	(#1314)		53.0	65.7	59.3	66.8	67.8	5.7
		counts:	0/2	1/47	7/28			
		Closest DC (feet):	Operating:	5335		Planned:	3498	
Hole 15		58.6	0.0	49.5	46.1	51.2		
Green	(#1315)		54.0	65.4	58.6	66.5	67.2	7.3
		counts:	0/3	1/49	6/25			
		Closest DC (feet):	Operating:	6344		Planned:	3224	
Hole 16		60.0	0.0	49.7	46.3	51.3		
Green	(#1316)		50.9	65.4	58.7	66.4	67.4	5.5
		counts:	0/1	1/48	6/26			
		Closest DC (feet):	Operating:	6212		Planned:	3738	
Hole 17		60.7	0.0	49.8	46.6	51.5		
Green	(#1317)		60.3	64.0	60.0	66.6	67.7	5.0
		counts:	0/6	1/39	6/31			
		Closest DC (feet):	Operating:	6153		Planned:	4600	
Hole 18		61.1	0.0	50.4	46.6	52.0		
Green	(#1318)		60.6	64.3	60.3	66.9	68.0	4.9
		counts:	0/6	1/39	6/33			
		Closest DC (feet):	Operating:	5550		Planned:	4466	
Hole 2		60.8	0.0	48.8	46.8	50.9		
Green	(#1302)		60.3	63.6	59.5	66.3	67.4	4.6
		counts:	0/6	1/39	6/28			
		Closest DC (feet):	Operating:	7054		Planned:	4437	
Hole 3		60.5	0.0	49.7	46.6	51.4		
Green	(#1303)		59.0	64.5	59.2	66.4	67.5	5.1
		counts:	0/5	1/42	6/26			
		Closest DC (feet):	Operating:	6163		Planned:	4336	
Hole 4		59.5	0.0	48.2	44.8	49.9		
Green	(#1304)		49.4	64.0	60.6	65.7	66.7	5.3
		counts:	0/1	1/35	5/34			
		Closest DC (feet):	Operating:	7724		Planned:	4662	
Hole 5		58.1	0.0	47.9	44.5	49.5		
Green	(#1305)		51.2	64.1	60.6	65.8	66.6	7.0
		counts:	0/2	1/36	5/32			
		Closest DC (feet):	Operating:	8121		Planned:	4337	
Hole 6		58.5	0.0	47.3	44.4	49.1		
Green	(#1306)		50.8	64.1	60.2	65.8	66.6	6.4
		counts:	0/2	1/37	3/31			
		Closest DC (feet):	Operating:	8790		Planned:	4752	
Hole 7		57.6	0.0	48.0	44.1	49.5		
Green	(#1307)		56.1	64.0	60.5	66.1	66.8	8.2
		counts:	0/3	1/36	4/31			
		Closest DC (feet):	Operating:	7985		Planned:	3910	
Hole 8		58.2	0.0	49.2	46.0	50.9		
Green	(#1308)		54.1	65.2	58.4	66.3	67.0	7.7
		counts:	0/3	1/47	6/23			
		Closest DC (feet):	Operating:	6707		Planned:	3177	
Hole 9		56.8	0.0	49.1	38.8	49.5		
Green	(#1309)		57.6	65.0	58.7	66.5	67.0	10.5
		counts:	0/4	1/46	3/21			
		Closest DC (feet):	Operating:	6788		Planned:	2816	
Kentucky Derby Ct		61.5	0.0	48.1	47.4	50.8		
Cul-de-Sac	(#1212)		63.9	61.5	60.7	67.0	68.2	4.7
		counts:	0/9	1/23	6/36			
		Closest DC (feet):	Operating:	7853		Planned:	2440	
Maint. Facility		58.5	0.0	47.5	44.7	49.3		
Building	(#1320)		49.1	63.7	60.8	65.6	66.4	6.2
		counts:	0/1	1/35	3/34			
		Closest DC (feet):	Operating:	8610		Planned:	4927	
Open Valley Way		56.7	0.0	48.8	38.8	49.2		
Center	(#1213)		57.7	64.9	59.1	66.5	67.0	10.7
		counts:	0/4	1/44	3/23			
		Closest DC (feet):	Operating:	7074		Planned:	2940	

Piney Grove Way & Cavaletti	58.0	0.0	46.9	44.3	48.8			
Intersection (#1215)			50.4	64.2	59.8	65.7	66.4	7.0
		counts:	0/2	1/37	3/31			
		Closest DC (feet):	Operating: 9369			Planned: 4757		
Ryton Ridge Way Cul-de-sac	60.3	52.1	0.0	47.1	53.3			
Cul-de-Sac (#1216)			60.0	65.4	58.7	67.2	68.1	6.1
		counts:	1/7	0/45	8/26			
		Closest DC (feet):	Operating: 4349			Planned: 2969		
Saddle & Derby Run	61.9	53.5	28.1	48.4	54.7			
Intersection (#1217)			63.1	64.7	60.9	68.0	69.1	5.2
		counts:	1/10	2/37	7/37			
		Closest DC (feet):	Operating: 3540			Planned: 4064		
Tred Avon Place	61.8	0.0	49.5	47.4	51.6			
Cul-de-Sac (#1218)			66.1	63.0	61.1	68.7	69.5	6.0
		counts:	0/9	2/27	5/37			
		Closest DC (feet):	Operating: 6443			Planned: 1946		

***** Heritage Hunt HOA Average Noise: *****
 Bkgrnd: 59.6 Operating DC: 51.2 Planned DC: 66.9 NET Noise: 67.7 Mult: 6.5
 Closest DC (feet): Operating: 3540 Planned: 763

***** Neighborhood: Piedmont HOA Area *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Abberley	54.8	0.0	48.5	45.6	50.3		
S side of Lake (#1419)			63.6	46.2	60.4	65.4	12.8
		counts:	0/12	3/2	2/35		
		Closest DC (feet):	Operating: 7288			Planned: 2872	
Bull Run MS track	50.8	0.0	46.6	45.4	49.1		
NW corner (#1403)			0.0	62.9	60.8	65.0	27.8
		counts:	0/0	1/32	3/37		
		Closest DC (feet):	Operating: 9820			Planned: 6471	
Cannondale Way	66.0	0.0	48.9	47.6	51.3		
East end (#1407)			68.9	61.5	60.7	70.2	3.6
		counts:	0/12	2/23	5/35		
		Closest DC (feet):	Operating: 7027			Planned: 1278	
Catharpin & Heathcote	64.8	0.0	48.6	46.5	50.7		
Intersection (#1405)			64.6	61.1	60.7	67.3	2.8
		counts:	0/9	2/21	5/35		
		Closest DC (feet):	Operating: 8361			Planned: 1975	
Catharpin @ Catharpin Creek	64.9	0.0	46.1	38.7	46.9		
Bridge (#1402)			54.9	63.7	60.7	65.9	2.3
		counts:	0/2	1/27	1/36		
		Closest DC (feet):	Operating: 10517			Planned: 4403	
Catharpin @ Little Bull Run	59.2	0.0	47.5	47.3	50.4		
Bridge (#1401)			61.0	59.7	62.0	65.8	5.6
		counts:	0/7	1/15	6/42		
		Closest DC (feet):	Operating: 8611			Planned: 3671	
Kona Drive	67.6	0.0	48.2	47.7	51.0		
East end (#1406)			70.6	60.9	60.4	71.4	3.5
		counts:	0/12	2/22	5/35		
		Closest DC (feet):	Operating: 7761			Planned: 931	
Legends & Newberry	48.2	0.0	49.9	41.6	50.5		
Intersection (#1421)			66.0	56.1	61.0	67.5	87.8
		counts:	0/12	4/9	3/37		
		Closest DC (feet):	Operating: 9293			Planned: 1507	
Piedmont Entrance	61.8	0.0	47.7	45.6	49.8		
Circle center (#1404)			51.6	63.3	61.2	65.5	3.5
		counts:	0/1	1/27	5/37		
		Closest DC (feet):	Operating: 8308			Planned: 4735	
Sheringham	44.3	0.0	48.4	45.5	50.2		
at bike path (#1420)			59.8	58.4	60.8	64.5	110.4
		counts:	0/7	3/7	2/39		
		Closest DC (feet):	Operating: 7436			Planned: 3805	

***** Piedmont HOA Area Average Noise: *****
 Bkgrnd: 62.7 Operating DC: 50.2 Planned DC: 67.5 NET Noise: 68.8 Mult: 4.1
 Closest DC (feet): Operating: 7027 Planned: 931

***** Neighborhood: VA Gateway Center *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
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Balls Ford & NS RR Crossing (#1444)	63.0	54.7	54.0	44.2	57.6			
		64.7	65.4	58.1	68.5	69.8	4.8	
		counts:	6/14	12/49	4/22			
		Closest DC (feet):	Operating:	3265	Planned:	2582		
University & Wellington Intersection (#1443)	63.0	52.3	49.3	48.7	55.2			
		69.5	63.9	57.3	70.7	71.5	7.1	
		counts:	2/24	3/37	13/18			
		Closest DC (feet):	Operating:	4247	Planned:	1151		
VA Gateway - Chic-fil-A Building (#1442)	67.2	0.0	50.0	46.9	51.7			
		64.2	63.5	58.2	67.5	70.4	2.1	
		counts:	0/11	4/32	5/24			
		Closest DC (feet):	Operating:	5835	Planned:	2709		
VA Gateway - IHOP Building (#1441)	67.6	0.0	49.6	46.3	51.3			
		68.6	62.3	59.6	69.9	72.0	2.7	
		counts:	0/12	3/26	5/32			
		Closest DC (feet):	Operating:	7488	Planned:	1081		

***** VA Gateway Center Average Noise: *****
 Bkgrnd: 65.7 Operating DC: 54.7 Planned DC: 69.3 NET Noise: 71.0 Mult: 3.4
 Closest DC (feet): Operating: 3265 Planned: 1081

***** Neighborhood: Haymarket and East along VA 55 *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Carterwood & Falsmere S side of circle(#1481)	44.1	0.0	48.1	46.7	50.5		
		63.3	58.6	61.6	66.3	66.5	171.0
		counts:	0/9	2/11	5/42		
		Closest DC (feet):	Operating:	9257	Planned:	2463	
Fire Station 4 Front (#1464)	54.5	0.0	49.9	42.2	50.6		
		74.0	56.1	60.8	74.2	74.3	95.9
		counts:	0/12	4/9	3/38		
		Closest DC (feet):	Operating:	9110	Planned:	316	
Greenhill Crossing CH Center (#1461)	56.0	0.0	49.9	44.7	51.0		
		63.0	55.6	58.3	64.8	65.5	8.9
		counts:	0/10	3/3	2/25		
		Closest DC (feet):	Operating:	5820	Planned:	2495	
Haymarket Child Academy S Side (#1465)	54.9	0.0	49.1	45.3	50.6		
		64.5	42.9	59.5	65.7	66.2	13.4
		counts:	0/12	3/1	2/28		
		Closest DC (feet):	Operating:	6610	Planned:	2184	
Landseer Circle Monument (#1462)	44.4	0.0	47.9	47.2	50.6		
		75.4	42.7	60.5	75.5	75.5	1297.5
		counts:	0/12	3/1	3/36		
		Closest DC (feet):	Operating:	8096	Planned:	122	
North of El Vaquero West Intersection (#1466)	56.8	52.1	0.0	43.9	52.7		
		53.2	60.3	53.6	61.8	63.4	4.5
		counts:	3/3	0/10	1/10		
		Closest DC (feet):	Operating:	4008	Planned:	4584	
St Paul Street 1st cross st (#1467)	47.1	47.2	49.8	44.0	52.4		
		57.1	60.0	53.3	62.4	62.9	38.2
		counts:	1/5	2/8	2/8		
		Closest DC (feet):	Operating:	4284	Planned:	3924	
Tyler ES Front Entrance (#1463)	54.8	0.0	50.1	41.7	50.7		
		70.0	42.8	61.4	70.5	70.7	39.2
		counts:	0/12	4/1	2/42		
		Closest DC (feet):	Operating:	8077	Planned:	558	

***** Haymarket and East along VA 55 Average Noise: *****
 Bkgrnd: 53.7 Operating DC: 51.2 Planned DC: 70.4 NET Noise: 70.5 Mult: 49.0
 Closest DC (feet): Operating: 4008 Planned: 122

***** Neighborhood: VA Oaks area *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
4512 Old Field Dr House (#1484)	47.4	0.0	0.0	0.0	0.0		
		66.3	62.1	50.9	67.8	67.8	110.0
		counts:	0/10	0/16	0/7		
		Closest DC (feet):	Operating:	18702	Planned:	1217	
4580 Sudley Rd House (#1485)	48.6	0.0	0.0	0.0	0.0		
		68.2	62.2	50.7	69.2	69.3	117.6
		counts:	0/11	0/15	0/7		
		Closest DC (feet):	Operating:	18695	Planned:	828	

4606 Sanders Lane	56.0	0.0	0.0	0.0	0.0			
Front Door (#1482)		66.9	61.9	50.6	68.2	68.4	17.4	
		counts:	0/14	0/12	0/7			
	Closest DC (feet):	Operating:	18817		Planned:	1295		
4610 Sudley Rd	57.5	0.0	0.0	0.0	0.0			
House (#1486)		67.8	61.7	50.7	68.9	69.2	14.7	
		counts:	0/14	0/12	0/7			
	Closest DC (feet):	Operating:	18853		Planned:	939		
5409 Ancestry Ct	54.6	0.0	0.0	44.4	44.4			
House (#1487)		58.0	64.0	56.5	65.5	65.9	13.4	
		counts:	0/6	0/26	1/15			
	Closest DC (feet):	Operating:	13628		Planned:	3937		
13508 Heritage Farm Dr	54.6	0.0	0.0	44.2	44.2			
House (#1488)		57.2	64.0	56.4	65.4	65.8	13.0	
		counts:	0/5	0/26	1/15			
	Closest DC (feet):	Operating:	14017		Planned:	4031		
Catharpin Park Baseball	56.0	0.0	0.0	0.0	0.0			
Center of fields(#1483)		65.8	62.1	50.8	67.4	67.7	14.9	
		counts:	0/12	0/14	0/7			
	Closest DC (feet):	Operating:	19087		Planned:	890		
***** VA Oaks area Average Noise: *****								
Bkgrnd: 54.7 Operating DC: 38.9 Planned DC: 67.7 NET Noise: 67.9 Mult: 21.2								
Closest DC (feet): Operating: 13628 Planned: 828								

***** Neighborhood: MNBP *****								
Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier	
Conway Robinson SF - Entr	62.7	61.0	44.6	48.4	61.4			
N.Center (#1501)		68.2	63.4	60.4	69.9	71.2	7.0	
		counts:	1/22	3/33	12/32			
	Closest DC (feet):	Operating:	1150		Planned:	1956		
MNBP - Brawner Farm	57.8	0.0	51.5	48.8	53.4			
House (#1509)		59.4	65.2	60.0	67.1	67.8	10.0	
		counts:	0/7	5/40	15/33			
	Closest DC (feet):	Operating:	5854		Planned:	2638		
MNBP - Brawner Farm	58.5	0.0	51.9	48.6	53.6			
Exhibit Bldg (#1504)		62.0	65.1	60.0	67.6	68.3	9.6	
		counts:	0/9	4/38	14/34			
	Closest DC (feet):	Operating:	5310		Planned:	1708		
MNBP - HQ	61.4	55.2	47.8	49.3	56.8			
Building (#1503)		66.1	63.8	62.4	69.1	70.0	7.2	
		counts:	1/17	7/27	10/56			
	Closest DC (feet):	Operating:	2735		Planned:	2526		
MNBP - Matthew Hill Parking	59.5	0.0	29.1	43.5	43.7			
Center (#1507)		0.0	54.8	60.7	61.7	63.8	2.7	
		counts:	0/0	2/9	6/35			
	Closest DC (feet):	Operating:	9691		Planned:	9682		
MNBP - NY Monument	60.0	0.0	48.2	50.8	52.7			
Monument (#1512)		0.0	60.3	62.6	64.6	66.1	4.1	
		counts:	0/0	8/21	10/58			
	Closest DC (feet):	Operating:	6276		Planned:	5538		
MNBP - Poplar Hill Rd	59.3	0.0	0.0	38.2	38.2			
at VA-234 (#1508)		0.0	56.7	59.8	61.5	63.6	2.7	
		counts:	0/0	0/13	5/24			
	Closest DC (feet):	Operating:	12347		Planned:	8029		
MNBP - Stone House	60.3	0.0	34.5	48.1	48.3			
Building (#1506)		0.0	53.7	58.4	59.7	63.2	1.9	
		counts:	0/0	3/4	11/23			
	Closest DC (feet):	Operating:	6067		Planned:	6684		
MNBP - Unfinished Railroad	57.4	0.0	47.5	48.4	51.0			
Trail Intsc E of QTS-S-LB D(#1510)			54.6	63.6	60.7	65.7	66.5	8.1
		counts:	0/4	2/30	16/37			
	Closest DC (feet):	Operating:	9969		Planned:	4063		
MNBP - Unfinished Railroad	56.5	0.0	0.0	47.6	47.6			
RR intcs w/ Featherbed Rd(#1511)			0.0	62.8	60.3	64.7	65.4	7.7
		counts:	0/0	0/28	9/34			
	Closest DC (feet):	Operating:	11873		Planned:	5552		
MNBP - Visitor Center	57.4	39.4	41.6	48.0	49.3			
Building (#1505)		55.5	43.2	57.2	59.6	61.9	2.8	
		counts:	2/3	4/1	8/22			
	Closest DC (feet):	Operating:	3656		Planned:	4896		

Stonewall Cemtry - Entr Circle 58.4 0.0 50.0 48.3 52.2
 North End (#1502) 0.0 62.9 61.4 65.2 66.2 6.0
 counts: 0/0 7/31 11/46
 Closest DC (feet): Operating: 7488 Planned: 5897

***** MNBPAverage Noise: *****
 Bkgrnd: 59.5 Operating DC: 54.0 Planned DC: 65.9 NET Noise: 67.0 Mult: 5.7
 Closest DC (feet): Operating: 1150 Planned: 1708

***** Neighborhood: Btwn MNBPA & PWDG *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Bobwhite Dr	54.1	0.0	0.0	44.2	44.2		
Cul-de-Sac (#1534)		68.3	61.0	52.2	69.2	69.3	32.8
		counts: 0/22	0/11	1/5			
		Closest DC (feet): Operating: 14014			Planned: 1252		
Gen Trimble - SW corner	55.4	0.0	46.1	43.6	48.0		
Intersection (#1532)		65.1	60.3	59.9	67.2	67.5	16.2
		counts: 0/12	1/21	7/30			
		Closest DC (feet): Operating: 10527			Planned: 2634		
Lolan St	60.1	55.6	43.6	49.5	56.8		
North end (#1535)		64.8	65.3	61.6	68.9	69.7	9.1
		counts: 1/12	3/34	14/52			
		Closest DC (feet): Operating: 2564			Planned: 1748		
Robin & Bluebird Lane	54.1	0.0	0.0	0.0	0.0		
Intersection (#1533)		58.9	63.3	48.6	64.7	65.1	12.4
		counts: 0/5	0/25	0/3			
		Closest DC (feet): Operating: 16296			Planned: 2896		
Sudley Road & Little Bull Run	59.1	0.0	0.0	22.7	22.7		
Bridge (#1531)		0.0	58.3	59.5	62.0	63.8	2.9
		counts: 0/0	0/13	1/23			
		Closest DC (feet): Operating: 15318			Planned: 5839		

***** Btwn MNBPA & PWDG Average Noise: *****
 Bkgrnd: 57.3 Operating DC: 50.6 Planned DC: 67.1 NET Noise: 67.7 Mult: 10.8
 Closest DC (feet): Operating: 2564 Planned: 1252

***** Neighborhood: Pageland CPA Area *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Pageland Ln - Artemus Rd	66.0	0.0	48.2	43.2	49.4		
Intersection (#1602)		72.2	61.6	60.2	72.8	73.7	5.8
		counts: 0/16	1/24	7/32			
		Closest DC (feet): Operating: 7785			Planned: 702		
Pageland Ln - Livia	65.8	0.0	0.0	0.0	0.0		
Intersection (#1604)		70.8	60.3	47.7	71.2	72.3	4.5
		counts: 0/21	0/9	0/3			
		Closest DC (feet): Operating: 16602			Planned: 543		
Pageland Ln - P.Snyder Drive	66.1	0.0	50.4	47.6	52.2		
Intersection (#1601)		66.3	65.2	60.1	69.4	71.1	3.1
		counts: 0/11	1/38	12/35			
		Closest DC (feet): Operating: 5604			Planned: 659		
Pageland Ln - Thornton	65.9	0.0	0.0	44.8	44.8		
Intersection (#1603)		74.6	58.1	53.3	74.7	75.3	8.6
		counts: 0/27	0/6	1/7			
		Closest DC (feet): Operating: 12914			Planned: 592		

***** Pageland CPA Area Average Noise: *****
 Bkgrnd: 66.0 Operating DC: 48.5 Planned DC: 72.5 NET Noise: 73.4 Mult: 5.5
 Closest DC (feet): Operating: 5604 Planned: 543

***** Neighborhood: Arcadia Run Apts *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Acacia Leaf Dr - Clubhouse	64.3	58.5	53.9	50.9	60.3		
Front door (#1702)		68.4	63.4	60.9	70.1	71.5	5.2
		counts: 8/14	14/41	11/37			
		Closest DC (feet): Operating: 1535			Planned: 1137		
Rosebay Ln - Southeast	64.3	60.3	55.0	50.8	61.8		
North Corner (#1700)		70.5	63.1	61.1	71.6	72.7	7.0
		counts: 8/14	13/39	12/39			
		Closest DC (feet): Operating: 1046			Planned: 753		

Wisteria Pond - East 64.3 58.8 54.1 50.9 60.5
 Center Island (#1701) 70.3 63.3 60.8 71.5 72.5 6.7
 counts: 8/14 14/43 11/37
 Closest DC (feet): Operating: 1515 Planned: 845

***** Arcadia Run Apts Average Noise: *****
 Bkgrnd: 64.3 Operating DC: 60.9 Planned DC: 71.1 NET Noise: 72.3 Mult: 6.3
 Closest DC (feet): Operating: 1046 Planned: 753

***** Neighborhood: Great Oak HOA *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
10077 Coffee Tree	47.0	49.6	56.1	47.3	57.4		
Cul-de-sac (#2004)		64.4	57.7	56.9	65.8	66.5	87.7
		counts: 5/15	12/15	3/17			
		Closest DC (feet): Operating: 1538			Planned: 2374		
10201 Winged Elm house (#2001)	47.0	50.4	56.0	47.5	57.5		
		64.5	58.5	57.1	66.1	66.7	92.3
		counts: 5/14	12/16	3/17			
		Closest DC (feet): Operating: 1272			Planned: 2072		
10220 Winged Elm house (#2002)	47.0	52.4	56.9	43.6	58.4		
		65.4	59.6	55.5	66.7	67.4	108.5
		counts: 5/14	14/20	1/13			
		Closest DC (feet): Operating: 898			Planned: 1721		
10236 Winged Elm house (#2003)	47.0	52.8	57.2	46.1	58.8		
		65.7	59.7	55.5	67.0	67.6	114.5
		counts: 5/14	13/20	2/13			
		Closest DC (feet): Operating: 861			Planned: 1750		
10377 Plum Tree Cul-de-sac (#2005)	47.0	52.7	53.9	48.4	57.0		
		63.7	56.8	57.2	65.2	65.9	77.1
		counts: 6/14	8/11	6/19			
		Closest DC (feet): Operating: 2338			Planned: 2902		
George C Round ES West side (#2012)	47.0	48.9	55.5	47.6	56.9		
		63.9	57.9	57.0	65.6	66.2	82.0
		counts: 5/15	12/15	3/17			
		Closest DC (feet): Operating: 1487			Planned: 2177		
Kings Landing Old house (#2013)	47.0	49.7	56.0	43.8	57.1		
		64.4	58.4	56.9	66.0	66.6	89.8
		counts: 5/14	14/17	1/16			
		Closest DC (feet): Operating: 1204			Planned: 1814		
LDS Church Property Center (#2011)	47.0	52.1	56.5	44.0	58.0		
		65.4	59.6	55.2	66.7	67.3	106.7
		counts: 5/14	14/21	1/12			
		Closest DC (feet): Operating: 802			Planned: 1592		

***** Great Oak HOA Average Noise: *****
 Bkgrnd: 47.0 Operating DC: 57.7 Planned DC: 66.2 NET Noise: 66.8 Mult: 96.3
 Closest DC (feet): Operating: 802 Planned: 1592

***** Neighborhood: Manassas - North of Tanner Way *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Harvest Place CDS	47.0	49.0	55.9	43.8	56.9		
Cul-de-sac (#2101)		64.0	60.0	56.7	66.0	66.6	90.0
		counts: 5/11	14/21	1/17			
		Closest DC (feet): Operating: 1286			Planned: 1459		

***** Manassas - North of Tanner Way Average Noise: *****
 Bkgrnd: 47.0 Operating DC: 56.9 Planned DC: 66.0 NET Noise: 66.6 Mult: 91.4
 Closest DC (feet): Operating: 1286 Planned: 1459

***** Neighborhood: Amberleigh Station HOA Area *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
8747 Diamond Hill Dr	47.0	52.2	46.5	50.3	55.0		
Street (#3004)		72.4	62.4	59.8	73.0	73.1	405.6
		counts: 2/15	3/25	13/36			
		Closest DC (feet): Operating: 3134			Planned: 669		
Bourne & Diamond Hill Intersection (#3006)	47.0	50.6	45.9	50.5	54.3		
		68.8	62.0	59.9	70.0	70.2	206.7
		counts: 1/15	4/25	13/37			
		Closest DC (feet): Operating: 3916			Planned: 1698		

Changing Leaf Terrace	47.0	53.5	47.0	50.7	55.9			
Cul-de-Sac (#3003)		72.3	63.1	60.0	73.0	73.1	408.5	
		counts:	2/15	3/27	14/37			
		Closest DC (feet):	Operating:	2565	Planned:	673		
Dennis Ct	47.0	49.7	45.9	51.0	54.1			
Cul-de-Sac (#3007)		68.1	60.8	60.7	69.5	69.6	182.9	
		counts:	1/15	4/18	16/40			
		Closest DC (feet):	Operating:	4456	Planned:	2082		
Sapphire & Ruby Rise	47.0	53.4	46.8	50.5	55.8			
Intersection (#3002)		77.1	62.9	59.7	77.4	77.4	1091.3	
		counts:	2/15	3/27	14/35			
		Closest DC (feet):	Operating:	2640	Planned:	243		
Sapphire Ridge Pl	47.0	51.6	46.2	49.5	54.4			
SW Cul-de-Sac (#3005)		73.5	62.1	59.7	74.0	74.0	501.8	
		counts:	2/15	3/25	10/37			
		Closest DC (feet):	Operating:	3448	Planned:	382		
Sapphire Ridge Pl	47.0	54.9	47.4	50.9	56.9			
NE Cul-de-Sac (#3001)		72.4	61.8	59.9	72.9	73.1	401.6	
		counts:	2/20	4/22	13/35			
		Closest DC (feet):	Operating:	2079	Planned:	591		
***** Amberleigh Station HOA Area Average Noise: *****								
	Bkgrnd:	47.0	Operating DC:	55.3	Planned DC:	73.5	NET Noise:	73.6
	Closest DC (feet):	Operating:	2079	Planned:	243	Mult:	466.6	

***** Neighborhood: Across Linton Hall from Amb Station *****								
Location	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
9077 Slate Stone Loop	(#3011)	47.0	48.7	45.3	50.6	53.5		
Street			66.4	59.7	60.6	68.1	68.3	133.6
		counts:	1/15	4/16	14/41			
		Closest DC (feet):	Operating:	5199	Planned:	2810		
13313 Carmella Ct	(#3012)	47.0	50.3	45.7	49.3	53.6		
Street			68.9	61.6	59.0	70.0	70.1	203.1
		counts:	2/15	3/25	10/32			
		Closest DC (feet):	Operating:	4174	Planned:	1086		
Chipper Ct	(#3014)	47.0	52.1	46.7	49.5	54.8		
Cul-de-Sac			67.9	64.3	59.5	69.9	70.1	202.0
		counts:	2/7	3/34	10/29			
		Closest DC (feet):	Operating:	2293	Planned:	1030		
Moat Crossing Pl	(#3013)	47.0	50.3	45.6	49.2	53.6		
North end			69.3	61.4	59.0	70.3	70.4	217.8
		counts:	2/15	3/24	10/31			
		Closest DC (feet):	Operating:	4169	Planned:	879		
***** Across Linton Hall from Amb Station Average Noise: *****								
	Bkgrnd:	47.0	Operating DC:	53.9	Planned DC:	69.7	NET Noise:	69.8
	Closest DC (feet):	Operating:	2293	Planned:	879	Mult:	192.5	

***** Neighborhood: Lanier Farms Area *****								
Location	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Chris Yung ES	(#3103)	47.0	55.4	52.7	48.1	57.8		
Bus Portico			70.9	63.5	57.7	71.8	72.0	315.6
		counts:	4/27	13/33	8/24			
		Closest DC (feet):	Operating:	2836	Planned:	1204		
Fog Light & Devlin	(#3104)	47.0	54.4	51.4	51.4	57.4		
Intersection			68.4	64.0	59.4	70.1	70.4	215.6
		counts:	4/20	12/35	12/32			
		Closest DC (feet):	Operating:	3252	Planned:	2287		
Night Watch Ct	(#3101)	47.0	53.8	50.8	51.0	56.9		
South Cal-de-Sac			69.9	62.8	58.6	70.9	71.1	255.4
		counts:	4/23	10/32	13/24			
		Closest DC (feet):	Operating:	3645	Planned:	1529		
Pike Branch & Lanier Ovlk	(#3105)	47.0	54.4	51.8	51.9	57.7		
Intersection			67.2	64.3	59.4	69.5	69.8	187.4
		counts:	4/17	12/38	13/32			
		Closest DC (feet):	Operating:	2917	Planned:	2699		
Placid Lake Ct	(#3102)	47.0	55.1	52.9	49.5	57.8		
North Cal-de-Sac			69.8	64.1	58.0	71.0	71.3	265.5
		counts:	4/23	14/37	9/28			
		Closest DC (feet):	Operating:	2706	Planned:	1392		

Rushing Creek & Daltons Grv 47.0 53.5 51.3 51.9 57.1
 Intersection (#3106) 67.8 63.7 59.1 69.6 69.9 192.8
 counts: 4/19 11/36 14/30
 Closest DC (feet): Operating: 3617 Planned: 2179

***** Lanier Farms Area Average Noise: *****
 Bkgrnd: 47.0 Operating DC: 57.5 Planned DC: 70.6 NET Noise: 70.8 Mult: 243.3
 Closest DC (feet): Operating: 2706 Planned: 1204

***** Neighborhood: The Landing *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Landing - E corner Buchanan Lp	47.0	55.8	56.2	31.6	59.0		
curb (#2152)		73.1	61.5	55.2	73.4	73.6	453.0
		counts: 8/15	12/26	0/17			
		Closest DC (feet): Operating: 1520			Planned: 357		
Landing - Hopkins & Spieden	47.0	57.2	55.4	31.3	59.4		
Intersection (#2153)		67.7	62.0	55.3	68.9	69.4	172.8
		counts: 10/14	10/27	0/17			
		Closest DC (feet): Operating: 2158			Planned: 858		
Landing - N corner Ratliff Tr	47.0	56.9	55.2	40.0	59.2		
curb (#2151)		69.0	61.3	55.4	69.9	70.2	209.9
		counts: 9/16	11/25	1/17			
		Closest DC (feet): Operating: 1896			Planned: 675		

***** The Landing Average Noise: *****
 Bkgrnd: 47.0 Operating DC: 59.2 Planned DC: 71.2 NET Noise: 71.5 Mult: 284.0
 Closest DC (feet): Operating: 1520 Planned: 357

***** Neighborhood: Regency Apartments *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Partnership Ln (NE Corner)	64.3	73.8	51.1	50.1	73.8		
Circle Center (#1703)		75.4	59.9	59.1	75.6	78.0	23.5
		counts: 9/14	8/22	11/33			
		Closest DC (feet): Operating: 121			Planned: 167		
Shallow Creek Loop (NW Corner)	64.3	66.6	50.5	50.0	66.8		
Road Center (#1705)		74.6	59.5	59.0	74.8	75.8	14.1
		counts: 9/14	8/24	11/31			
		Closest DC (feet): Operating: 447			Planned: 438		
Shallow Creek Loop (SW Corner)	64.3	63.8	50.3	49.9	64.2		
Road Center (#1704)		70.5	59.7	59.0	71.1	72.6	6.8
		counts: 9/12	8/24	11/33			
		Closest DC (feet): Operating: 756			Planned: 832		

***** Regency Apartments Average Noise: *****
 Bkgrnd: 64.3 Operating DC: 70.2 Planned DC: 74.2 NET Noise: 76.0 Mult: 14.9
 Closest DC (feet): Operating: 121 Planned: 167

***** Neighborhood: Gainesville MS Area *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Gainesville HS	47.0	53.3	53.5	48.1	57.0		
GHS (#1708)		67.3	64.5	55.6	69.3	69.6	179.7
		counts: 2/24	4/35	12/21			
		Closest DC (feet): Operating: 1553			Planned: 2363		
Gainesville MS	47.0	52.9	52.6	47.2	56.3		
GMS (#1707)		63.3	65.7	52.8	67.8	68.2	129.7
		counts: 2/13	3/45	9/9			
		Closest DC (feet): Operating: 1303			Planned: 3685		
Holy Trinity Catholic Church	46.0	57.1	53.7	48.0	59.1		
NE Back Parking (#1706)		62.0	65.7	52.4	67.4	68.0	158.1
		counts: 2/9	2/49	9/8			
		Closest DC (feet): Operating: 712			Planned: 3920		
Piney Branch ES	47.0	57.7	51.9	47.6	59.1		
PBES (#1709)		66.1	66.1	57.3	69.4	69.8	188.3
		counts: 2/7	4/43	10/23			
		Closest DC (feet): Operating: 729			Planned: 1585		

***** Gainesville MS Area Average Noise: *****
 Bkgrnd: 46.8 Operating DC: 58.0 Planned DC: 68.6 NET Noise: 68.9 Mult: 167.1
 Closest DC (feet): Operating: 712 Planned: 1585

***** Neighborhood: QTS-S NSR *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
QTS-S - NSR Point 1	51.0	0.0	50.1	45.0	51.3		
- (#9301)		63.8	64.8	59.3	68.0	68.2	52.2
		counts: 0/10	1/40	6/27			
		Closest DC (feet):		Operating: 5856	Planned: 1074		
QTS-S - NSR Point 2	51.0	0.0	50.8	46.4	52.1		
- (#9302)		66.8	64.6	59.1	69.3	69.4	69.7
		counts: 0/13	1/38	10/27			
		Closest DC (feet):		Operating: 5300	Planned: 948		
QTS-S - NSR Point 3	51.0	53.0	43.5	49.2	54.8		
- (#9303)		65.2	64.8	60.9	68.8	69.1	63.8
		counts: 1/13	3/34	14/41			
		Closest DC (feet):		Operating: 3790	Planned: 846		
QTS-S - NSR Point 4	45.0	0.0	46.9	43.1	48.4		
- (#9304)		71.4	61.2	59.5	72.0	72.0	506.3
		counts: 0/18	1/20	7/30			
		Closest DC (feet):		Operating: 9388	Planned: 393		

***** QTS-S NSR Average Noise: *****
 Bkgrnd: 50.1 Operating DC: 52.2 Planned DC: 69.8 NET Noise: 69.9 Mult: 97.7
 Closest DC (feet): Operating: 3790 Planned: 393

***** Neighborhood: Mid-County *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
6753 John Mallard Dr	47.0	0.0	0.0	0.0	0.0		
House Center (#3201)		72.6	54.8	0.0	72.7	72.7	367.6
		counts: 0/4	0/6	0/0			
		Closest DC (feet):		Operating: 38809	Planned: 172		
Kelly Leadership Center	47.0	0.0	0.0	0.0	0.0		
Bldg Center (#3202)		64.5	48.7	0.0	64.6	64.7	58.3
		counts: 0/9	0/1	0/0			
		Closest DC (feet):		Operating: 32912	Planned: 2495		

***** Mid-County Average Noise: *****
 Bkgrnd: 47.0 Operating DC: 0.0 Planned DC: 70.3 NET Noise: 70.3 Mult: 216.9
 Closest DC (feet): Operating: 32912 Planned: 172

***** Neighborhood: QTS-N NSR *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
QTS-N - NSR Point 5	43.0	0.0	0.0	44.6	44.6		
- (#9105)		74.7	59.7	52.8	74.9	74.9	1540.8
		counts: 0/22	0/11	1/6			
		Closest DC (feet):		Operating: 13133	Planned: 243		
QTS-N - NSR Point 6	43.0	0.0	0.0	44.2	44.2		
- (#9106)		68.2	59.7	52.7	68.8	68.9	385.9
		counts: 0/18	0/15	1/5			
		Closest DC (feet):		Operating: 14110	Planned: 1192		
QTS-N - NSR Point 7	43.0	0.0	0.0	0.0	0.0		
- (#9107)		73.1	59.5	48.5	73.3	73.3	1068.7
		counts: 0/20	0/10	0/3			
		Closest DC (feet):		Operating: 15957	Planned: 301		
QTS-N - NSR Point 8	43.0	0.0	0.0	0.0	0.0		
- (#9108)		66.1	62.6	48.7	67.8	67.8	302.1
		counts: 0/15	0/15	0/3			
		Closest DC (feet):		Operating: 15864	Planned: 975		

***** QTS-N NSR Average Noise: *****
 Bkgrnd: 43.0 Operating DC: 41.4 Planned DC: 72.2 NET Noise: 72.2 Mult: 843.6
 Closest DC (feet): Operating: 13133 Planned: 243

***** Neighborhood: Carter's Mill *****

Location (Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Begonia & Rose Ellen	47.0	57.4	0.0	0.0	57.4		
Intersection (#1802)		51.9	0.0	55.8	57.3	60.6	22.5
		counts: 3/1	0/0	0/12			
		Closest DC (feet):		Operating: 1889	Planned: 2014		

Hibiscus & Pink Poppy Intersection (#1803)	47.0	54.7	0.0	0.0	54.7			
		49.3	0.0	54.8	55.9	58.7	14.6	
		counts:	3/1	0/0	0/11			
		Closest DC (feet):	Operating:	2892	Planned:	2960		
Magnolia Falls South end (#1800)	47.0	67.5	0.0	0.0	67.5			
		70.0	47.3	56.2	70.2	72.1	320.9	
		counts:	3/1	0/2	0/10			
		Closest DC (feet):	Operating:	319	Planned:	138		
Petunia & Rose Ellen Intersection (#1801)	47.0	63.6	0.0	0.0	63.6			
		58.9	0.0	56.4	60.8	65.5	69.9	
		counts:	3/1	0/0	0/12			
		Closest DC (feet):	Operating:	659	Planned:	720		
***** Carter's Mill Average Noise: *****								
Bkgrnd: 47.0 Operating DC: 63.4 Planned DC: 65.0 NET Noise: 67.3 Mult: 108.7								
Closest DC (feet): Operating: 319 Planned: 138								

- Table 3: Noise Predictions for each School

- This table provides a detailed noise level prediction for each school sorted by:

- Jurisdiction
- Type of Education (public or private)
- Level of Education: (elementary, Middle, High, Non-Traditional, College)

- Table 3 data is presented in the same format as in Table 2.

Table 3: Noise Predictions for each School

as of: February 25, 2024

Note: Table 3 is 5 pages long

Each School dB(A): Bkgrnd 0-1 miles 1-2 miles 2-3 miles then total
Row #1: Operating dBA Row #2: Planned dBA Row #3: counts Opr/Pln

***** Jurisdiction: Prince William County *****									
Type of Education: Public									
Level of Education: Elementary School									
School	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier	
Ashland ES		47.0	0.0	0.0	0.0	0.0			
AES	(# 215)		49.5	51.8	51.8	55.9	56.5	8.9	
		counts:	0/1	0/3	0/6				
		Closest DC (feet):	Operating:	43750	Planned:	5226			
Bristow Run ES		47.0	49.0	44.9	50.0	53.2			
BRES	(# 202)		66.6	59.8	60.6	68.2	68.4	140.0	
		counts:	1/15	4/17	11/42				
		Closest DC (feet):	Operating:	4963	Planned:	1919			
Buckland Mills ES		47.0	0.0	49.2	43.9	50.3			
BMES	(# 201)		61.3	58.4	57.1	64.1	64.3	54.7	
		counts:	0/7	3/6	2/19				
		Closest DC (feet):	Operating:	6696	Planned:	3348			
Cedar Point ES		47.0	0.0	44.2	50.3	51.3			
CPES	(# 203)		0.0	56.9	58.2	60.6	61.2	26.8	
		counts:	0/0	1/10	11/27				
		Closest DC (feet):	Operating:	9870	Planned:	7838			

Chris Yung ES		47.0	55.4	52.7	48.1	57.8		
CYES	(# 204)		70.9	63.5	57.7	71.8	72.0	321.9
		counts:	4/27	13/33	8/24			
		Closest DC (feet):	Operating:	2836		Planned:	1204	
Coles ES		47.0	0.0	0.0	0.0	0.0		
CES	(# 214)		0.0	58.8	44.9	59.0	59.2	16.8
		counts:	0/0	0/9	0/1			
		Closest DC (feet):	Operating:	27380		Planned:	5621	
Ellis ES		47.0	55.0	53.0	49.4	57.8		
EES	(# 205)		65.6	60.2	56.7	67.1	67.7	117.7
		counts:	4/13	12/27	18/17			
		Closest DC (feet):	Operating:	3024		Planned:	1320	
George P. Mullen ES		47.0	57.7	50.0	51.8	59.3		
MES	(# 208)		66.0	60.5	61.5	68.1	68.7	149.6
		counts:	12/10	6/24	14/51			
		Closest DC (feet):	Operating:	2414		Planned:	1169	
Glenkirk ES		47.0	0.0	45.0	44.5	47.8		
GES	(# 206)		0.0	58.2	62.2	63.6	63.8	48.7
		counts:	0/0	2/10	2/48			
		Closest DC (feet):	Operating:	6467		Planned:	7071	
Haymarket ES		47.0	55.5	0.0	0.0	55.5		
HES	(# 207)		48.5	57.3	50.6	58.6	60.5	22.8
		counts:	3/1	0/10	0/2			
		Closest DC (feet):	Operating:	2699		Planned:	3344	
Innovation ES		47.0	0.0	54.8	51.4	56.5		
IES	(# 213)		62.9	60.9	58.6	66.0	66.5	89.3
		counts:	0/8	18/26	15/29			
		Closest DC (feet):	Operating:	5607		Planned:	2239	
Mcauliffe ES		47.0	0.0	0.0	0.0	0.0		
McES	(# 217)		0.0	0.0	49.5	49.5	51.4	2.8
		counts:	0/0	0/0	0/4			
		Closest DC (feet):	Operating:	40646		Planned:	11264	
Piney Branch ES		47.0	57.7	51.9	47.6	59.1		
PBES	(# 209)		66.1	66.1	57.3	69.4	69.8	191.7
		counts:	2/7	4/43	10/23			
		Closest DC (feet):	Operating:	729		Planned:	1585	
Sinclair ES		47.0	0.0	50.5	50.1	53.3		
SES	(# 210)		56.3	58.7	56.1	62.0	62.7	37.0
		counts:	0/3	11/13	13/21			
		Closest DC (feet):	Operating:	5436		Planned:	3856	
Tyler ES		47.0	0.0	50.1	41.7	50.7		
TES	(# 211)		70.0	42.8	61.4	70.5	70.6	232.5
		counts:	0/12	4/1	2/42			
		Closest DC (feet):	Operating:	8077		Planned:	558	
Victory ES		47.0	48.8	55.4	47.2	56.8		
VES	(# 212)		58.9	63.6	61.0	66.4	66.9	97.9
		counts:	1/7	19/35	14/50			
		Closest DC (feet):	Operating:	4984		Planned:	4218	
Wilson ES		47.0	0.0	0.0	0.0	0.0		
WES	(# 216)		0.0	46.2	49.1	50.9	52.4	3.5
		counts:	0/0	0/1	0/3			
		Closest DC (feet):	Operating:	43920		Planned:	8580	

Level of Education: Middle School

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Benton MS		47.0	0.0	0.0	0.0	0.0		
BMS	(# 302)		59.4	51.8	31.1	60.1	60.3	21.5
		counts:	0/6	0/4	0/0			
		Closest DC (feet):	Operating:	27517		Planned:	4675	
Gainesville MS		47.0	52.9	52.6	47.2	56.3		
GMS	(# 301)		63.3	65.7	52.8	67.8	68.2	131.8
		counts:	2/13	3/45	9/9			
		Closest DC (feet):	Operating:	1303		Planned:	3685	

Level of Education: High School

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Colgan HS		47.0	0.0	0.0	0.0	0.0		
CHS	(# 314)		62.6	52.0	31.4	63.0	63.1	41.2
		counts:	0/6	0/4	0/0			
		Closest DC (feet):	Operating:	26905		Planned:	2877	
Gainesville HS		47.0	53.3	53.5	48.1	57.0		
GHS	(# 311)		67.3	64.5	55.6	69.3	69.6	182.9
		counts:	2/24	4/35	12/21			
		Closest DC (feet):	Operating:	1553		Planned:	2363	
Hylton HS		47.0	0.0	0.0	0.0	0.0		
HHS	(# 315)		0.0	45.6	53.4	54.1	54.9	6.1
		counts:	0/0	0/1	0/9			
		Closest DC (feet):	Operating:	38919		Planned:	9363	
Patriot HS		47.0	0.0	0.0	46.7	46.7		
PHS	(# 312)		0.0	0.0	58.4	58.4	59.0	15.8
		counts:	0/0	0/0	6/25			
		Closest DC (feet):	Operating:	13450		Planned:	11079	
Unity-Reed HS		47.0	56.2	54.4	46.1	58.6		
URHS	(# 313)		66.7	60.9	55.8	68.0	68.5	141.9
		counts:	4/14	17/30	13/16			
		Closest DC (feet):	Operating:	2505		Planned:	792	

Level of Education: Non-Traditional

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
PACE East		47.0	0.0	0.0	0.0	0.0		
PES	(# 322)		61.9	48.0	0.0	62.1	62.2	33.4
		counts:	0/9	0/1	0/0			
		Closest DC (feet):	Operating:	34069		Planned:	3843	
PACE West		47.0	0.0	50.0	42.1	50.7		
PWS	(# 321)		81.2	56.2	61.1	81.2	81.2	2707.9
		counts:	0/12	4/9	3/40			
		Closest DC (feet):	Operating:	9069		Planned:	62	

Level of Education: School Facility

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Kelly Leadership Center		47.0	0.0	0.0	0.0	0.0		
KLC	(# 399)		64.5	48.7	0.0	64.6	64.7	59.2
		counts:	0/9	0/1	0/0			
		Closest DC (feet):	Operating:	32912		Planned:	2495	

Type of Education: Private**Level of Education: Elementary School**

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Bristow Montessori		47.0	0.0	50.2	52.5	54.5		
BM	(# 501)		67.0	60.9	60.9	68.7	68.9	156.4
		counts:	0/14	7/21	19/38			
		Closest DC (feet):	Operating:	5926		Planned:	2094	
Good Sheppard Academy		47.0	51.4	47.0	50.2	54.7		
GSA	(# 502)		56.6	55.6	54.8	60.5	61.7	29.4
		counts:	2/3	5/9	11/16			
		Closest DC (feet):	Operating:	1056		Planned:	4185	
Haymarket Christian Academy		47.0	0.0	49.1	45.3	50.6		
HCA	(# 503)		64.5	42.9	59.5	65.7	65.9	78.7
		counts:	0/12	3/1	2/28			
		Closest DC (feet):	Operating:	6610		Planned:	2184	
Minneland Acad - Gainesville		47.0	57.5	50.9	47.9	58.8		
MAG	(# 504)		62.4	65.4	54.4	67.4	68.0	127.6
		counts:	2/7	2/48	9/13			
		Closest DC (feet):	Operating:	680		Planned:	2970	
Minneland Acad - Heathcote		47.0	52.6	0.0	0.0	52.6		
MAH	(# 505)		46.9	56.7	51.4	58.2	59.5	17.9

		counts:	3/1	0/10	0/4			
		Closest DC (feet):	Operating:	3918		Planned:	4231	
St Michaels Academy		47.0	53.7	0.0	43.5	54.1		
StMA	(# 506)		51.1	60.0	42.0	60.6	61.6	29.2
		counts:	3/2	0/11	1/1			
		Closest DC (feet):	Operating:	3005		Planned:	4158	
St Pauls School		47.0	53.7	0.0	43.5	54.1		
StPS	(# 507)		51.1	60.0	42.0	60.6	61.6	29.2
		counts:	3/2	0/11	1/1			
		Closest DC (feet):	Operating:	3005		Planned:	4158	

Level of Education: Non-Traditional

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Youth for Tomorrow		47.0	54.2	51.9	50.5	57.2		
YFT	(# 601)		65.8	54.0	60.9	67.2	67.6	117.3
		counts:	5/11	5/11	17/47			
		Closest DC (feet):	Operating:	3563		Planned:	1519	

Type of Education: Higher Ed

Level of Education: College

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
ECPI University		47.0	38.5	33.1	45.1	46.2		
ECPI	(# 702)		0.0	51.4	53.3	55.4	56.5	8.8
		counts:	2/0	0/3	8/9			
		Closest DC (feet):	Operating:	4023		Planned:	9005	

******* Jurisdiction: City of Manassas *******

Type of Education: Public

Level of Education: Elementary School

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
George C Round ES		47.0	48.9	55.8	46.1	57.0		
RES	(# 102)		64.0	58.2	56.7	65.6	66.2	84.7
		counts:	5/15	13/16	2/16			
		Closest DC (feet):	Operating:	1496		Planned:	2118	
Jeannie Davis ES		47.0	38.0	53.1	49.4	54.7		
JDES	(# 101)		60.9	59.6	57.2	64.3	64.8	60.6
		counts:	2/5	11/23	7/19			
		Closest DC (feet):	Operating:	4861		Planned:	1265	

Type of Education: Private

Level of Education: Elementary School

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Minneland Academy - Manassas		47.0	0.0	48.5	50.9	52.9		
MAM	(# 401)		0.0	58.8	53.3	59.9	60.8	24.3
		counts:	0/0	7/19	11/12			
		Closest DC (feet):	Operating:	7053		Planned:	6407	

******* Jurisdiction: Virginia State *******

Type of Education: Higher Ed

Level of Education: College

School	(Ref #)	Bkrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
George Mason Univ - SciTech		47.0	65.2	51.5	48.5	65.5		
GMU	(# 703)		67.0	62.8	57.5	68.7	70.4	224.1
		counts:	12/18	11/34	10/24			

		Closest DC (feet):	Operating: 766	Planned: 887			
NoVa Community Col - Manassas	47.0	46.7	38.7	48.9	51.2		
NVCC	(# 701)	56.3	43.5	56.1	59.3	60.2	20.8
		counts:	2/3	3/1	9/19		
		Closest DC (feet):	Operating: 1807	Planned: 4357			

- **Table 4: Noise Predictions for each Public Safety Facility**
 - This table provides a detailed noise level prediction for each Public Safety Facility sorted by:
 - Type
 - Table 4 data is presented in the same format as in Table 2.

Table 4: Noise Predictions for each Public Safety Facility
as of: February 25, 2024

Note: Table 4 is 1 page long

Each Location dB(A): Bkgrnd 0-1 miles 1-2 miles 2-3 miles then total
Row #1: Operating dBA Row #2: Planned dBA Row #3: counts Opr/Pln

***** Public Safety Facility: Fire *****								
Location	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
Fire Station 4		47.0	0.0	49.9	42.2	50.6		
FS-4	(# 801)		73.9	56.1	60.8	74.2	74.2	536.2
		counts:	0/12	4/9	3/37			
		Closest DC (feet):	Operating: 9104	Planned: 318				
Fire Station 11		47.0	0.0	50.7	50.3	53.5		
FS-11	(# 802)		56.7	59.6	54.5	62.2	62.9	38.9
		counts:	0/3	11/16	13/18			
		Closest DC (feet):	Operating: 5829	Planned: 3639				
Fire Station 22		47.0	60.0	47.3	50.0	60.6		
FS-22	(# 803)		61.7	61.1	62.1	66.4	67.4	112.0
		counts:	10/6	7/25	5/52			
		Closest DC (feet):	Operating: 743	Planned: 1316				
Fire Station 25		47.0	0.0	49.7	52.4	54.2		
FS-25	(# 804)		61.0	61.4	60.0	65.6	66.0	80.1
		counts:	0/8	5/25	21/37			
		Closest DC (feet):	Operating: 8367	Planned: 4471				
***** Public Safety Facility: Police *****								
Location	(Ref #)	Bkgrnd	0-1 mi	1-2 mi	2-3 mi	Total	NET	Multiplier
PWC Western District		47.0	66.3	55.0	46.6	66.7		
P-WD	(# 901)		70.7	61.9	56.4	71.4	72.7	374.9
		counts:	5/16	18/32	11/17			
		Closest DC (feet):	Operating: 382	Planned: 331				

- Table 5: Data Center Types

- This table provides a listing of the type of cooling modeled for each data center building.
- The Table is sorted by:
 - Category (Operating or Planned)
 - Type of Cooling
- The numbers presented are the reference numbers provided in the Issued Map Study by the Author. The integer part is the DC site and if a fraction is provided, it is the number of the building as modeled.
- Numbers provided that are 1,100's are for PWDG – QTS South REZ, 1,200's are for PWDG – CloudHQ REZ, and 1,300's are for PWDG – QTS North REZ. The tens digit is the parcel number within the REZ, and the unit's number is the DC building number.

Table 5: Data Center Types

as of: February 25, 2024

<i>Note: Table 5 is 2 page2 long</i>									
Category: Data Center Operating									
DC Type: Forced Air Cooling									
3.1,	3.2,	4,	7,	8.1,	8.2,	8.3,	8.4,	9,	10
11,	12.1,	12.2,	26.1,	26.2,	27.1,	27.2			
DC Type: Condenser/DAHU									
1,	2,	14,	15,	16,	17,	18,	19,	21,	22
23.1,	23.2,	24							
DC Type: Other or Unknown									
5,	13,	20,	108.1,	143,	145,	146,	148,	155	
DC Type: AWS Tanner Way									
25.1,	25.2,	25.3,	25.4						
DC Type: QTS with ACCs None									
Category: Data Center Planned									
DC Type: Forced Air Cooling									
3.3									
DC Type: Condenser/DAHU None									
DC Type: Other or Unknown									
108.2,	6,	102,	105.1,	105.2,	105.3,	105.4,	105.5,	105.6,	106
109,	110,	111,	112,	113,	114,	115.1,	115.2,	115.3,	115.4
118.1,	118.2,	118.3,	118.4,	119,	120,	121,	123,	124,	125.1
125.2,	126,	128.1,	128.2,	128.3,	128.4,	134,	135,	137,	138
139,	140,	141,	142,	144,	147,	149,	151,	153,	154
156,	159,	160,	161,	162,	163,	205,	206,	209,	211
213,	216,	218,	219,	231,	234,	301,	305,	311,	312
325,	901,	903,	906,	907,	1211,	1212,	1221,	1231,	1232
1241,	1251,	1252,	1253,	1254,	1261,	1262,	1263		

DC Type: AWS Tanner Way None

DC Type: QTS with ACCs

1111, 1112, 1113, 1121, 1122, 1123, 1131, 1132, 1141, 1142
1143, 1144, 1311, 1312, 1313, 1321, 1331, 1332, 1333, 1334

Category: Substation Operating

Substation Type: Forced Air Cooling

28, 29.1, 30, 31, 32, 33

Category: Substation Planned

Substation Type: Forced Air Cooling

29.2, 150, 157, 158, 164, 165, 166, 167, 168, 169
170, 171, 172, 173, 174, 175, 176, 177, 233, 1119
1129, 1139, 1148, 1149, 1229, 1248, 1249, 1259, 1269, 1329
1339

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