

January 7, 2022

Ms. Tanowa Troupe, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3797

Re: Case No. 20-417-EL-BGN -In the Matter of the Application of Grover Hill Wind, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Wind-Powered Electric Generation Facility in Paulding County, Ohio.

Supplemental Response to Seventh Data Request from Staff of the Ohio Power Siting Board

Dear Ms. Troupe:

Attached please find Grover Hill Wind, LLC's ("Applicant") Supplemental Response to the Seventh Data Request from the staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on January 7, 2022.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik

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CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 7th day of January, 2022.

/s/ Christine M.T. Pirik

Christine M.T. Pirik (0029759)

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Administrative Law Judge:

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david.hicks@puco.ohio.gov

4894-8655-0025 v1 [73809-23]

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of the Application of Grover Hill Wind,)
LLC for a Certificate of Environmental Compatibility)
and Public Need to Construct a Wind-Powered) Case No: 20-417-EL-BGN
Electric Generation Facility in Paulding County, Ohio.)

GROVER HILL WIND, LLC 'S
SUPPLEMENTAL RESPONSE TO THE SEVENTH DATA REQUEST
FROM THE STAFF OF THE OHIO POWER SITING BOARD

On May 3, 2021, as supplemented, Grover Hill Wind, LLC (“Applicant”) filed an application (“Application”) with the Ohio Power Siting Board (“OPSB”) proposing to construct a wind-powered electric generation facility in Paulding County, Ohio (“Project”).

On August 27, 2021, the Staff of the OPSB (“OPSB Staff”) provided the Applicant with OPSB Staff’s Seventh Data Request. Now comes the Applicant providing the following Supplemental Response to the Seventh Data Request from the OPSB Staff.

Noise: Attached please find the Operational Noise Limit Supplement prepared by Westwood dated January 7, 2022. This document supplements the Response to the Seventh Data Request from the OPSB Staff that was filed in the docket on September 14, 2021.

Respectfully submitted,

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Grover Hill Wind Farm
Operational Noise Limit Supplement to
OPSB Data Request 7 Case No. 20-417-EL-BGN

Paulding County, OH
January 7, 2022

Prepared By:

Westwood

Prepared For:

Grover Hill Wind, LLC

This document is meant to serve as a supplement to the September 13, 2021 Grover Hill Wind (“Grover Hill”) Farm Noise Impact Assessment (“Noise Report”) to update recommended operational noise limits.

Recommended Operational Noise Limits

Westwood recommends the limits for Grover Hill be established in line with precedent set by similar wind projects approved in Ohio. The following describes noise limits for the Buckeye II project:

“The facility shall be operated so that the facility noise contribution does not result in noise levels at the exterior of any currently existing nonparticipating sensitive receptor that exceed the project area ambient nighttime Leq of 39 dBA, plus five dBA. During daytime operations only, 7:00 a.m. to 10:00 p.m., the facility may operate at the greater of: (a) the project area ambient nighttime Leq, 39 dBA, plus five dBA; or (b) the validly measured ambient (Leq), plus five dBA, at the location of the sensitive receptor.”

Thus, the nighttime noise limit should be determined by applying 5 dBA above the area nighttime ambient noise levels (Leq).

This noise level condition was also used for the Northwest Ohio Wind Farm (“NWOW”), which is adjacent to the proposed Grover Hill Project. An ambient noise study was completed for NWOW and found nighttime Leq averages ranging from 37 to 51 dBA, with an area wide average of 43 dBA. An operational noise limit of 48 dBA (43 dBA + 5 dBA) was established for the project.

An ambient study was also conducted for Grover Hill in July of 2021. As these two projects are adjacent and have similar acoustic environments, similar ambient results were found. Across six measurement sites, nighttime Leq averages ranged from 36-45 dBA. It was noted that the Grover Hill data had a stark difference between measurement sites within 250 feet of a roadway, and those further away. Table 1 illustrates the difference between the two groups of measurements.

Table 1
Ambient Nighttime Measurements and Area-Based Averages

	Within 250 ft of roadways			Beyond 250 ft of roadways		
	LT-1	LT-4	LT-6	LT-2	LT-3	LT-5
A-Weighted Nighttime Ambient Leq	45 dBA	39 dBA	40 dBA	36 dBA	39 dBA	37 dBA
	Range: 39-45 dBA Average: 42 dBA			Range: 36-39 dBA Average: 37 dBA		

With this difference in mind, Westwood recommends applying two operational noise limits to residences in the project area: 47 dBA (42 dBA + 5) for homes within 250 feet of a roadway, and 42 dBA (37 dBA + 5) for homes beyond that distance. These limits better reflect the acoustic conditions of individual receptors, and both limits fall below those set for the adjacent project.

The Noise Report recommended nighttime limits of 44 (39+5) and 38 (33+5) dBA for homes within and beyond 250 feet of roadways, respectively. However, these limits were based on ANS-filtered ambient averages. ANS filtering consists of eliminating all octave bands above 1000 Hz. While it can be useful in some settings, in this case ANS filtering resulted in artificially low values that did not reflect the acoustic environment of the area and was not in line with the precedents set by Buckeye II and Northwest Ohio.

In addition, and due to the complexity of the Grover Hill site being affected by multiple operating wind projects, the Applicant requests that Grover Hill nighttime sound level limit to be set at the same level to its adjacent operating wind project NWOW. 48 dBA (43 + 5 dBA). This allowance is reasonable and will allow Grover Hill noise compliance level to account for higher ambient noise levels caused by existing operating turbines.

In summary, the applicant requests operational sound level limits as reported in the Table 2:

Table 2
Recommended and Requested
Noise Limits

	Nighttime Ambient Sound Level (dBA)	Sound Level Limit (Nighttime Ambient plus 5 dBA)	Requested Operational Sound Level Limit
Receptors within 250 feet of a roadway	42 dBA	47 dBA	48 dBA
Receptors beyond 250 feet of a roadway	37 dBA	42 dBA	43 dBA

Operational Noise Modeling and Mitigation

To determine if the proposed Grover Hill turbine array will operate in compliance with the recommended noise limits, Westwood analyzed the site specifics through a model built in WindPRO. The following assumptions were made to ensure a "worst case" scenario was analyzed to produce a model more conservative than realistic operational conditions.

- The initial model in the Noise Report assumed the turbines were operating at the loudest sound emission level at 89 meters hub heights.
- An additional uncertainty margin of 2 dBA was added to the noise emission levels.
- Noise contributions from the nearby Blue Creek and NWOW projects were also included in the analysis
- Since final turbine selection has not been identified for Grover Hill, the loudest turbine model being considered was used for this analysis.

Two noise models were then run, and the required noise reduced operation ("NRO") modes were calculated for both sets of operational noise limits. With the NRO modes all sensitive noise receptors have a modelled project noise level in compliance with the recommended noise limits. Note that this represents a worst-case modelled scenario, and another NRO analysis will be done after final turbine selection is decided. Levels will be verified at each receptor to ensure compliance with the stipulated noise level requirements. The following tables contain detailed results of the modelled sound level results and required NRO modes for the turbine layout.

Table 3
Grover Hill Turbine Layout and required NRO Reductions

UTM Zone 16 N, NAD83 Meters							
Turbine ID	Easting (m)	Northing (m)	Ground Elevation AGL (m)	Turbine Model	Unmitigated Sound Power Level (dBA) + 2 dB uncertainty	Recommended NRO Attenuation (@ 47 dB)	Requested NRO Attenuation (@ 48 dB)
T11	709299	4546653	220.6	GE 3.0-140	110 dBA	1	0
T14	710122	4545851	219.4	GE 3.0-140	110 dBA	4	1
T15	710962	4545865	220.4	GE 3.0-140	110 dBA	4	4
T16	711617	4545819	220.2	GE 3.0-140	110 dBA	3	3
T26	711657	4545215	220.7	GE 3.0-140	110 dBA	4	0
T30	710081	4542833	221.7	GE 3.0-140	110 dBA	1	0
T31	711098	4542888	221.9	GE 3.0-140	110 dBA	1	0
T32	711767	4542982	221.3	GE 3.0-140	110 dBA	2	0
T34	712830	4543215	220.9	GE 3.0-140	110 dBA	2	0
T38	711397	4541724	221.7	GE 3.0-140	110 dBA	1	0
T41	710941	4545147	220.5	GE 3.0-140	110 dBA	4	3
T43	711811	4541743	222.5	GE 3.0-140	110 dBA	4	2

Table 4
Modelled Receptor Results (48/43 dBA Operational Limits)
UTM Zone 16 N, NAD83 Meters

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-109-NP	711149	4545493	220.8	Yes	48	48	Yes
NSP-43-P	709342	4547065	221	Yes	48	48	Yes
NSP-607-NP	712178	4543216	221.6	Yes	48	48	Yes
NSP-608-NP	710550	4543202	221.4	Yes	48	48	Yes
NSP-611-NP	712223	4543174	221.5	Yes	48	48	Yes
NSP-622-NP	710617	4542990	221.2	Yes	48	48	Yes
NSP-628-NP	710557	4542796	221.9	Yes	48	48	Yes
NSP-80-P	710537	4545952	220.2	Yes	48	48	Yes
NSP-82-P	709886	4545522	221.1	Yes	48	48	Yes
NSP-97-P	711294	4545570	220.7	Yes	48	48	Yes
NSP-113-P	710271	4545476	221.1	Yes	48	48	Yes
NSP-41-NP	709014	4547121	221.2	Yes	48	47	Yes
NSP-603-NP	710605	4543299	221.5	Yes	48	47	Yes
NSP-618-NP	709002	4542983	223	Yes	48	47	Yes
NSP-667-NP	712677	4542385	221.8	Yes	48	47	Yes
NSP-68-NP	710443	4546266	220	Yes	48	47	Yes
NSP-336-NP	712902	4543959	221.5	Yes	48	47	Yes
NSP-490-NP	712407	4543740	221.3	Yes	48	47	Yes
NSP-505-NP	712357	4543725	221.1	Yes	48	47	Yes
NSP-530-NP	712369	4543683	221.1	Yes	48	47	Yes
NSP-558-NP	712309	4543660	221.2	Yes	48	47	Yes
NSP-584-NP	712208	4543544	221.5	Yes	48	47	Yes
NSP-593-NP	712235	4543495	221.3	Yes	48	47	Yes
NSP-594-NP	712165	4543471	221.5	Yes	48	47	Yes
NSP-596-NP	712165	4543413	221.5	Yes	48	47	Yes
NSP-652-P	711234	4542330	221.9	Yes	48	47	Yes
NSP-679-NP	712975	4542315	221.4	Yes	48	47	Yes
NSP-85-NP	707928	4545490	221.2	Yes	48	47	Yes
NSP-112-NP	708298	4545479	221.6	Yes	48	46	Yes
NSP-279-NP	712799	4543997	221.1	Yes	48	46	Yes
NSP-287-NP	712741	4544001	221.1	Yes	48	46	Yes
NSP-346-NP	712613	4543942	221.2	Yes	48	46	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-381-NP	710102	4543907	221.6	Yes	48	46	Yes
NSP-400-NP	709598	4543900	222.1	Yes	48	46	Yes
NSP-473-NP	712376	4543770	221.1	Yes	48	46	Yes
NSP-506-NP	712310	4543708	221.2	Yes	48	46	Yes
NSP-517-NP	712306	4543685	221.3	Yes	48	46	Yes
NSP-529-NP	708980	4543690	222.4	Yes	48	46	Yes
NSP-548-NP	712275	4543658	221.3	Yes	48	46	Yes
NSP-567-NP	712206	4543569	221.3	Yes	48	46	Yes
NSP-586-NP	712168	4543520	221.5	Yes	48	46	Yes
NSP-633-NP	709036	4542681	223.2	Yes	48	46	Yes
NSP-638-NP	708556	4542262	222.8	Yes	48	46	Yes
NSP-672-NP	713404	4542356	221.1	Yes	48	46	Yes
NSP-673-P	709593	4542282	222.6	Yes	48	46	Yes
NSP-677-NP	710047	4542309	222.6	Yes	48	46	Yes
NSP-680-NP	709957	4542288	222.4	Yes	48	46	Yes
NSP-724-P	709357	4541404	223.3	Yes	48	46	Yes
NSP-87-NP	708915	4545845	221.7	Yes	48	46	Yes
NSP-87-NP	708922	4545786	221.4	Yes	48	46	Yes
NSP-836-NP	712206	4543569	221.3	Yes	48	46	Yes
NSP-837-NP	712168	4543520	221.5	Yes	48	46	Yes
NSP-131-NP	712118	4544910	220.9	Yes	48	46	Yes
NSP-226-NP	712903	4544035	221.2	Yes	48	46	Yes
NSP-277-NP	712854	4544015	221.2	Yes	48	46	Yes
NSP-331-NP	713074	4543965	221.1	Yes	48	46	Yes
NSP-349-NP	712538	4543953	221.1	Yes	48	46	Yes
NSP-349-NP	712463	4543947	221	Yes	48	46	Yes
NSP-349-NP	712404	4543930	221.2	Yes	48	46	Yes
NSP-349-NP	712482	4543930	221.1	Yes	48	46	Yes
NSP-401-NP	712421	4543901	220.9	Yes	48	46	Yes
NSP-405-NP	712404	4543900	220.9	Yes	48	46	Yes
NSP-417-NP	712453	4543897	221	Yes	48	46	Yes
NSP-418-NP	712370	4543881	221	Yes	48	46	Yes
NSP-445-NP	712357	4543817	221.1	Yes	48	46	Yes
NSP-447-NP	712310	4543831	221.2	Yes	48	46	Yes
NSP-463-NP	712269	4543791	221.3	Yes	48	46	Yes
NSP-475-N2	712310	4543768	221.2	Yes	48	46	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-475-NP	712307	4543788	221.2	Yes	48	46	Yes
NSP-476-NP	712257	4543764	221.2	Yes	48	46	Yes
NSP-489-NP	710531	4543732	221.5	Yes	48	46	Yes
NSP-491-P	712511	4543924	221	Yes	48	46	Yes
NSP-494-NP	712307	4543733	221.3	Yes	48	46	Yes
NSP-495-NP	712270	4543730	221.2	Yes	48	46	Yes
NSP-503-NP	712218	4543720	221.2	Yes	48	46	Yes
NSP-503-NP	712205	4543705	221.3	Yes	48	46	Yes
NSP-519-NP	712272	4543684	221.3	Yes	48	46	Yes
NSP-520-NP	712202	4543682	221.4	Yes	48	46	Yes
NSP-522-NP	712164	4543682	221.5	Yes	48	46	Yes
NSP-534-NP	712205	4543660	221.4	Yes	48	46	Yes
NSP-548-NP	712205	4543639	221.5	Yes	48	46	Yes
NSP-548-NP	712205	4543614	221.4	Yes	48	46	Yes
NSP-561-NP	712058	4543613	221.4	Yes	48	46	Yes
NSP-567-NP	712206	4543589	221.4	Yes	48	46	Yes
NSP-568-NP	712164	4543594	221.4	Yes	48	46	Yes
NSP-572-NP	711795	4543570	220.9	Yes	48	46	Yes
NSP-577-NP	712162	4543574	221.4	Yes	48	46	Yes
NSP-580-NP	711997	4543567	221.4	Yes	48	46	Yes
NSP-581-NP	711952	4543568	221.2	Yes	48	46	Yes
NSP-586-NP	712163	4543537	221.4	Yes	48	46	Yes
NSP-600-P	711951	4543546	221.3	Yes	48	46	Yes
NSP-600-P	711826	4543521	221.2	Yes	48	46	Yes
NSP-674-NP	710945	4542322	222.2	Yes	48	46	Yes
NSP-678-NP	709351	4542290	223	Yes	48	46	Yes
NSP-692-NP	712560	4542301	222.1	Yes	48	46	Yes
NSP-92-NP	708937	4545717	221.3	Yes	48	46	Yes
NSP-826-NP	712482	4543930	221.1	Yes	48	46	Yes
NSP-832-NP	711826	4543521	221.2	Yes	48	46	Yes
NSP-833-NP	712205	4543705	221.3	Yes	48	46	Yes
NSP-834-NP	712205	4543614	221.4	Yes	48	46	Yes
NSP-835-NP	712205	4543639	221.5	Yes	48	46	Yes
NSP-121-NP	712171	4545200	221.3	Yes	48	46	Yes
NSP-123-NP	712168	4545145	220.8	Yes	48	46	Yes
NSP-107-NP	708753	4545488	221.7	Yes	48	45	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-110-NP	708453	4545483	222.1	Yes	48	45	Yes
NSP-111-NP	708371	4545481	221.6	Yes	48	45	Yes
NSP-283-NP	712997	4544023	221.4	Yes	48	45	Yes
NSP-285-NP	712549	4543998	221	Yes	48	45	Yes
NSP-286-NP	712501	4543988	221	Yes	48	45	Yes
NSP-419-NP	712307	4543874	221.1	Yes	48	45	Yes
NSP-42-NP	707826	4547075	221.7	Yes	48	45	Yes
NSP-429-NP	710523	4543864	221.4	Yes	48	45	Yes
NSP-448-N2	712266	4543812	221.2	Yes	48	45	Yes
NSP-448-NP	712256	4543824	221.2	Yes	48	45	Yes
NSP-478-N2	712201	4543763	221.4	Yes	48	45	Yes
NSP-478-NP	712229	4543769	221.5	Yes	48	45	Yes
NSP-508-N2	712162	4543703	221.4	Yes	48	45	Yes
NSP-508-NP	712158	4543720	221.4	Yes	48	45	Yes
NSP-555-NP	711995	4543617	221.5	Yes	48	45	Yes
NSP-687-NP	708734	4542202	222.9	Yes	48	45	Yes
NSP-754-NP	708280	4540622	223.5	Yes	48	45	Yes
NSP-99-NP	708914	4545493	221.7	Yes	48	45	Yes
NSP-827-NP	712463	4543947	221	Yes	48	45	Yes
NSP-828-NP	712404	4543930	221.2	Yes	48	45	Yes
NSP-137-P	712189	4544725	220.8	Yes	48	45	Yes
NSP-250-NP	712500	4544078	221.5	Yes	48	45	Yes
NSP-261-NP	712454	4544052	221.1	Yes	48	45	Yes
NSP-265-NP	712424	4544049	221	Yes	48	45	Yes
NSP-273-NP	712354	4544029	220.7	Yes	48	45	Yes
NSP-298-NP	712439	4543987	221	Yes	48	45	Yes
NSP-300-NP	712424	4543985	220.9	Yes	48	45	Yes
NSP-301-NP	712401	4544003	220.9	Yes	48	45	Yes
NSP-315-NP	712365	4543999	220.8	Yes	48	45	Yes
NSP-317-NP	712322	4543982	221	Yes	48	45	Yes
NSP-318-NP	712301	4543981	221.2	Yes	48	45	Yes
NSP-403-NP	712310	4543901	221.3	Yes	48	45	Yes
NSP-420-N2	712251	4543872	221.4	Yes	48	45	Yes
NSP-420-NP	712257	4543891	221.2	Yes	48	45	Yes
NSP-423-NP	712149	4543871	221.3	Yes	48	45	Yes
NSP-425-NP	712090	4543867	221.3	Yes	48	45	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-428-NP	712052	4543863	221.4	Yes	48	45	Yes
NSP-441-NP	712053	4543828	221.4	Yes	48	45	Yes
NSP-442-NP	711998	4543824	221.4	Yes	48	45	Yes
NSP-450-NP	712214	4543813	221.3	Yes	48	45	Yes
NSP-452-NP	712149	4543814	221.5	Yes	48	45	Yes
NSP-454-NP	712091	4543825	221.3	Yes	48	45	Yes
NSP-456-NP	712051	4543804	221.3	Yes	48	45	Yes
NSP-457-NP	711983	4543803	221.4	Yes	48	45	Yes
NSP-467-NP	712092	4543783	221.4	Yes	48	45	Yes
NSP-469-NP	711988	4543778	221.4	Yes	48	45	Yes
NSP-479-N2	712155	4543763	221.6	Yes	48	45	Yes
NSP-479-NP	712159	4543779	221.6	Yes	48	45	Yes
NSP-480-NP	712097	4543758	221.3	Yes	48	45	Yes
NSP-482-N2	712047	4543758	221.4	Yes	48	45	Yes
NSP-482-NP	712054	4543778	221.4	Yes	48	45	Yes
NSP-484-NP	711934	4543774	221.3	Yes	48	45	Yes
NSP-486-NP	711851	4543753	221.1	Yes	48	45	Yes
NSP-487-NP	711784	4543753	221	Yes	48	45	Yes
NSP-500-NP	712057	4543720	221.4	Yes	48	45	Yes
NSP-502-NP	712008	4543720	221.4	Yes	48	45	Yes
NSP-509-NP	711817	4543724	221.1	Yes	48	45	Yes
NSP-509-NP	711838	4543718	221.2	Yes	48	45	Yes
NSP-510-NP	712113	4543719	221.5	Yes	48	45	Yes
NSP-521-NP	711893	4543669	221.4	Yes	48	45	Yes
NSP-528-NP	711947	4543689	221.4	Yes	48	45	Yes
NSP-538-NP	712051	4543656	221.5	Yes	48	45	Yes
NSP-539-NP	711999	4543651	221.4	Yes	48	45	Yes
NSP-541-NP	711952	4543648	221.4	Yes	48	45	Yes
NSP-544-NP	711823	4543654	221	Yes	48	45	Yes
NSP-564-NP	711953	4543609	221.3	Yes	48	45	Yes
NSP-565-NP	711899	4543601	221.7	Yes	48	45	Yes
NSP-675-NP	713550	4542353	221	Yes	48	45	Yes
NSP-684-NP	710396	4542243	222.6	Yes	48	45	Yes
NSP-89-NP	712094	4545774	220.7	Yes	48	45	Yes
NSP-57-P	709840	4547075	220.9	Yes	48	45	Yes
NSP-831-NP	711838	4543718	221.2	Yes	48	45	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-13-NP	708362	4548648	221.2	Yes	48	44	Yes
NSP-136-NP	710494	4544685	221.3	Yes	48	44	Yes
NSP-138-NP	708950	4544631	221.9	Yes	48	44	Yes
NSP-204-NP	712498	4544133	221.7	Yes	48	44	Yes
NSP-237-NP	712395	4544090	221	Yes	48	44	Yes
NSP-238-NP	712355	4544090	220.9	Yes	48	44	Yes
NSP-256-NP	712367	4544051	220.8	Yes	48	44	Yes
NSP-257-NP	712296	4544048	220.6	Yes	48	44	Yes
NSP-258-NP	710526	4544021	221.4	Yes	48	44	Yes
NSP-274-NP	712296	4544026	220.8	Yes	48	44	Yes
NSP-309-NP	711510	4543962	220.8	Yes	48	44	Yes
NSP-324-NP	712109	4543976	221.2	Yes	48	44	Yes
NSP-339-NP	710602	4543937	221.4	Yes	48	44	Yes
NSP-383-NP	712092	4543911	221.6	Yes	48	44	Yes
NSP-408-NP	712094	4543893	221.7	Yes	48	44	Yes
NSP-422-NP	711941	4543868	221.2	Yes	48	44	Yes
NSP-443-NP	711946	4543821	221.3	Yes	48	44	Yes
NSP-444-NP	711885	4543819	221.4	Yes	48	44	Yes
NSP-446-NP	711830	4543824	221.4	Yes	48	44	Yes
NSP-449-NP	708914	4543813	222.3	Yes	48	44	Yes
NSP-453-NP	711792	4543830	221.2	Yes	48	44	Yes
NSP-455-NP	708766	4543808	222.4	Yes	48	44	Yes
NSP-460-NP	711842	4543796	221.3	Yes	48	44	Yes
NSP-689-NP	708964	4542167	223	Yes	48	44	Yes
NSP-814-NP	708806	4549116	221	Yes	48	44	Yes
NSP-817-NP	707587	4546997	221.4	Yes	48	44	Yes
NSP-819-NP	707631	4540595	224	Yes	48	44	Yes
NSP-106-P	712238	4545538	220.7	Yes	48	44	Yes
NSP-157-NP	711111	4543951	221.2	Yes	48	44	Yes
NSP-173-NP	712510	4544212	221.1	Yes	48	44	Yes
NSP-175-NP	712486	4544195	221	Yes	48	44	Yes
NSP-176-NP	712455	4544215	221.1	Yes	48	44	Yes
NSP-179-NP	712404	4544210	221.2	Yes	48	44	Yes
NSP-180-NP	712359	4544218	221.1	Yes	48	44	Yes
NSP-181-NP	712334	4544193	221.2	Yes	48	44	Yes
NSP-182-NP	712141	4544175	220.9	Yes	48	44	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-183-NP	712316	4544199	221.1	Yes	48	44	Yes
NSP-184-NP	712290	4544195	221.1	Yes	48	44	Yes
NSP-185-NP	712259	4544201	221.1	Yes	48	44	Yes
NSP-186-NP	712233	4544190	220.8	Yes	48	44	Yes
NSP-188-NP	712354	4544157	221.1	Yes	48	44	Yes
NSP-189-NP	712296	4544156	221.1	Yes	48	44	Yes
NSP-190-NP	712247	4544153	220.9	Yes	48	44	Yes
NSP-193-NP	712450	4544159	221.1	Yes	48	44	Yes
NSP-193-NP	712432	4544154	221.1	Yes	48	44	Yes
NSP-194-NP	712146	4544153	221.1	Yes	48	44	Yes
NSP-197-NP	712395	4544152	221	Yes	48	44	Yes
NSP-199-NP	712042	4544143	220.4	Yes	48	44	Yes
NSP-205-NP	712356	4544135	221.1	Yes	48	44	Yes
NSP-208-NP	710807	4543983	221.5	Yes	48	44	Yes
NSP-209-NP	712254	4544134	221	Yes	48	44	Yes
NSP-213-NP	712148	4544131	220.8	Yes	48	44	Yes
NSP-215-NP	712092	4544134	221	Yes	48	44	Yes
NSP-216-NP	712039	4544120	221	Yes	48	44	Yes
NSP-219-NP	712395	4544111	221	Yes	48	44	Yes
NSP-220-NP	712366	4544113	221.1	Yes	48	44	Yes
NSP-221-NP	712295	4544116	221	Yes	48	44	Yes
NSP-224-NP	712259	4544111	220.7	Yes	48	44	Yes
NSP-225-NP	712189	4544107	220.7	Yes	48	44	Yes
NSP-229-NP	712149	4544107	221	Yes	48	44	Yes
NSP-231-NP	712043	4544103	221.2	Yes	48	44	Yes
NSP-239-NP	712298	4544090	220.9	Yes	48	44	Yes
NSP-240-NP	712257	4544082	220.4	Yes	48	44	Yes
NSP-241-NP	712193	4544086	220.9	Yes	48	44	Yes
NSP-243-NP	712140	4544086	221	Yes	48	44	Yes
NSP-245-NP	712081	4544086	221.3	Yes	48	44	Yes
NSP-246-NP	712042	4544077	221.2	Yes	48	44	Yes
NSP-247-NP	711978	4544078	221	Yes	48	44	Yes
NSP-247-NP	712001	4544075	221.1	Yes	48	44	Yes
NSP-263-NP	712139	4544041	221.1	Yes	48	44	Yes
NSP-267-NP	712086	4544041	221.2	Yes	48	44	Yes
NSP-269-NP	712047	4544039	221.2	Yes	48	44	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-275-P	711352	4543957	221.3	Yes	48	44	Yes
NSP-281-NP	712083	4544024	221.3	Yes	48	44	Yes
NSP-282-NP	712042	4544016	221.3	Yes	48	44	Yes
NSP-306-NP	712019	4543992	221.4	Yes	48	44	Yes
NSP-310-NP	711848	4543978	221.1	Yes	48	44	Yes
NSP-311-NP	711804	4543978	221	Yes	48	44	Yes
NSP-333-NP	711762	4543962	220.8	Yes	48	44	Yes
NSP-340-NP	710876	4543954	221.4	Yes	48	44	Yes
NSP-390-NP	711379	4543906	221.2	Yes	48	44	Yes
NSP-397-NP	711818	4543927	221.1	Yes	48	44	Yes
NSP-398-NP	711763	4543911	220.8	Yes	48	44	Yes
NSP-398-NP	711727	4543899	220.6	Yes	48	44	Yes
NSP-414-NP	710914	4543891	221.4	Yes	48	44	Yes
NSP-416-NP	711882	4543884	221.2	Yes	48	44	Yes
NSP-427-NP	711830	4543870	221.1	Yes	48	44	Yes
NSP-432-NP	711787	4543862	221.1	Yes	48	44	Yes
NSP-606-NP	713780	4543223	221.1	Yes	48	44	Yes
NSP-616-NP	713848	4543042	221	Yes	48	44	Yes
NSP-742-NP	708503	4540641	224.1	Yes	48	44	Yes
NSP-829-NP	712432	4544154	221.1	Yes	48	44	Yes
NSP-830-NP	712001	4544075	221.1	Yes	48	44	Yes
NSP-838-NP	711727	4543899	220.6	Yes	48	44	Yes
NSP-145-NP	708893	4544472	222	Yes	48	43	Yes
NSP-159-NP	708972	4544296	222	Yes	48	43	Yes
NSP-314-NP	713417	4543977	221.2	Yes	48	43	Yes
NSP-424-NP	708471	4543874	222.4	Yes	48	43	Yes
NSP-5-NP	709417	4548672	220.8	Yes	48	43	Yes
NSP-55-NP	710488	4546863	220.5	Yes	48	43	Yes
NSP-612-NP	713865	4543167	220.8	Yes	48	43	Yes
NSP-683-NP	713743	4542351	221.2	Yes	48	43	Yes
NSP-7-P	709213	4548680	220.9	Yes	48	43	Yes
NSP-77-NP	712083	4546052	220.6	Yes	48	43	Yes
NSP-784-NP	709078	4539446	224.1	Yes	48	43	Yes
NSP-818-NP	707358	4543598	222.8	Yes	48	43	Yes
NSP-821-NP	709151	4539170	224.3	Yes	48	43	Yes
NSP-716-NP	710595	4541590	222.9	Yes	48	43	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-723-NP	710599	4541455	222.5	Yes	48	43	Yes
NSP-737-NP	711919	4541156	222.5	No	43	43	Yes
NSP-589-NP	713846	4543506	220.9	Yes	48	42	Yes
NSP-682-NP	713801	4542330	221	Yes	48	42	Yes
NSP-733-NP	710579	4541289	222.6	Yes	48	42	Yes
NSP-755-NP	710172	4540632	223.3	Yes	48	42	Yes
NSP-779-NP	709060	4540009	223.8	Yes	48	42	Yes
NSP-815-NP	707246	4548010	221.5	Yes	48	42	Yes
NSP-820-NP	707427	4541143	223.9	Yes	48	42	Yes
NSP-141-NP	712683	4544508	220.5	Yes	48	42	Yes
NSP-731-P	712317	4541338	222.4	Yes	48	42	Yes
NSP-741-NP	710683	4541073	222.1	Yes	48	42	Yes
NSP-774-NP	709105	4540086	223.7	Yes	48	41	Yes
NSP-811-NP	710372	4548770	220.4	Yes	48	41	Yes
NSP-96-NP	712527	4545611	220.5	Yes	48	41	Yes
NSP-323-NP	713841	4543975	221.5	Yes	48	40	Yes
NSP-67-P	712120	4546400	220	Yes	48	40	Yes
NSP-693-NP	713807	4542011	221.2	Yes	48	40	Yes
NSP-753-NP	710696	4540700	222.9	Yes	48	40	Yes
NSP-812-NP	709917	4550332	219.9	Yes	48	40	Yes
NSP-187-NP	713727	4544165	220.9	Yes	48	40	Yes
NSP-62-NP	712055	4546572	218.6	Yes	48	40	Yes
NSP-698-NP	713886	4542063	220.9	Yes	48	40	Yes
NSP-745-NP	712290	4541028	222.1	Yes	48	40	Yes
NSP-320-NP	713960	4543989	221.2	Yes	48	39	Yes
NSP-816-NP	707204	4548819	220.4	Yes	48	39	Yes
NSP-100-NP	712950	4545565	220.3	Yes	48	39	Yes
NSP-664-NP	714266	4542429	221.3	Yes	48	39	Yes
NSP-751-P	712250	4540747	222.2	Yes	48	39	Yes
NSP-554-NP	714384	4543262	221.1	Yes	48	38	Yes
NSP-101-NP	713027	4545563	220.2	Yes	48	38	Yes
NSP-202-NP	714247	4544062	221.3	Yes	48	38	Yes
NSP-45-NP	711976	4546977	219.4	No	43	38	Yes
NSP-717-NP	713837	4541642	220.7	Yes	48	38	Yes
NSP-758-NP	712284	4540538	222.4	Yes	48	38	Yes
NSP-810-NP	710976	4548813	220.6	Yes	48	38	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-649-NP	714559	4542540	220.5	No	43	37	Yes
NSP-656-NP	714497	4542489	221.3	Yes	48	37	Yes
NSP-729-NP	713552	4541273	220.6	No	43	37	Yes
NSP-822-NP	710661	4539773	222.8	Yes	48	37	Yes
NSP-200-NP	714400	4544064	221.1	Yes	48	37	Yes
NSP-37-NP	712043	4547216	219.7	Yes	48	37	Yes
NSP-752-NP	712884	4540716	221.8	Yes	48	37	Yes
NSP-98-NP	713256	4545570	219.9	Yes	48	37	Yes
NSP-1-P	711421	4548741	220	Yes	48	36	Yes
NSP-124-NP	713717	4545217	220	Yes	48	36	Yes
NSP-38-NP	712260	4547224	219.4	Yes	48	36	Yes
NSP-728-NP	713902	4541353	221.5	Yes	48	36	Yes
NSP-823-NP	710750	4539531	223.1	Yes	48	36	Yes
NSP-824-NP	710480	4539060	223.2	Yes	48	36	Yes
NSP-102-NP	713662	4545617	218.5	Yes	48	36	Yes
NSP-103-NP	713604	4545568	217.5	Yes	48	36	Yes
NSP-118-NP	713653	4545430	219.5	No	43	36	Yes
NSP-704-NP	714599	4541961	220.6	Yes	48	36	Yes
NSP-93-NP	713482	4545706	219.7	No	43	36	Yes
NSP-803-NP	714610	4544015	220.9	Yes	48	36	Yes
NSP-33-NP	712651	4547259	219.7	Yes	48	35	Yes
NSP-34-NP	712583	4547255	219.7	Yes	48	35	Yes
NSP-595-NP	714926	4543270	220.8	Yes	48	35	Yes
NSP-681-NP	714847	4542354	220.4	Yes	48	35	Yes
NSP-720-NP	714375	4541572	221.7	Yes	48	35	Yes
NSP-650-NP	715006	4542454	221.1	Yes	48	35	Yes
NSP-70-NP	713694	4546054	219.9	Yes	48	35	Yes
NSP-797-NP	713767	4545697	218.4	Yes	48	35	Yes
NSP-799-NP	713854	4545557	219.9	Yes	48	35	Yes
NSP-802-NP	714819	4544026	220.7	Yes	48	35	Yes
NSP-785-NP	713857	4545976	219.9	No	43	34	Yes
NSP-801-NP	714952	4544083	220.8	Yes	48	34	Yes
NSP-807-NP	713926	4540730	222.6	Yes	48	34	Yes
NSP-798-NP	714132	4545663	220.2	Yes	48	34	Yes
NSP-805-NP	714707	4541459	221.5	Yes	48	34	Yes
NSP-796-NP	713764	4546720	219.9	Yes	48	33	Yes

Receptor (P-Participant, NP- Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-800-NP	715413	4543077	219.8	Yes	48	33	Yes
NSP-806-NP	714374	4540827	221.4	Yes	48	33	Yes
NSP-825-NP	712437	4539371	223.5	Yes	48	33	Yes
NSP-804-NP	715450	4541834	221.5	Yes	48	32	Yes
NSP-813-NP	711927	4550398	219.9	Yes	48	32	Yes
NSP-18-NP	713614	4548033	219.1	Yes	48	32	Yes
NSP-808-NP	713403	4539182	223.1	Yes	48	32	Yes
NSP-793-NP	713697	4548426	219.4	Yes	48	31	Yes
NSP-795-NP	714337	4547232	217.6	Yes	48	31	Yes
NSP-794-NP	715314	4545997	219.9	Yes	48	31	Yes
NSP-809-NP	713845	4539182	222.6	Yes	48	31	Yes
NSP-787-NP	714250	4548946	219.6	Yes	48	29	Yes
NSP-791-NP	714510	4548863	219.1	Yes	48	29	Yes
NSP-792-NP	714285	4548839	219.1	Yes	48	29	Yes
NSP-788-NP	714921	4548954	219.4	Yes	48	28	Yes
NSP-789-NP	715093	4548959	219.4	Yes	48	28	Yes
NSP-790-NP	715178	4548962	219.3	Yes	48	28	Yes
NSP-786-NP	715205	4549140	219.2	Yes	48	28	Yes

Table 5
Modelled Receptor Results (47/42 dBA Operational Limits)

UTM Zone 16 N, NAD83 Meters

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-109-NP	711149	4545493	220.8	Yes	47	47	Yes
NSP-41-NP	709014	4547121	221.2	Yes	47	47	Yes
NSP-43-P	709342	4547065	221	Yes	47	47	Yes
NSP-603-NP	710605	4543299	221.5	Yes	47	47	Yes
NSP-607-NP	712178	4543216	221.6	Yes	47	47	Yes
NSP-608-NP	710550	4543202	221.4	Yes	47	47	Yes
NSP-611-NP	712223	4543174	221.5	Yes	47	47	Yes
NSP-618-NP	709002	4542983	223	Yes	47	47	Yes
NSP-622-NP	710617	4542990	221.2	Yes	47	47	Yes
NSP-628-NP	710557	4542796	221.9	Yes	47	47	Yes
NSP-667-NP	712677	4542385	221.8	Yes	47	47	Yes
NSP-68-NP	710443	4546266	220	Yes	47	47	Yes
NSP-80-P	710537	4545952	220.2	Yes	47	47	Yes
NSP-82-P	709886	4545522	221.1	Yes	47	47	Yes
NSP-97-P	711294	4545570	220.7	Yes	47	47	Yes
NSP-112-NP	708298	4545479	221.6	Yes	47	46	Yes
NSP-113-P	710271	4545476	221.1	Yes	47	46	Yes
NSP-279-NP	712799	4543997	221.1	Yes	47	46	Yes
NSP-287-NP	712741	4544001	221.1	Yes	47	46	Yes
NSP-336-NP	712902	4543959	221.5	Yes	47	46	Yes
NSP-346-NP	712613	4543942	221.2	Yes	47	46	Yes
NSP-381-NP	710102	4543907	221.6	Yes	47	46	Yes
NSP-400-NP	709598	4543900	222.1	Yes	47	46	Yes
NSP-473-NP	712376	4543770	221.1	Yes	47	46	Yes
NSP-490-NP	712407	4543740	221.3	Yes	47	46	Yes
NSP-505-NP	712357	4543725	221.1	Yes	47	46	Yes
NSP-506-NP	712310	4543708	221.2	Yes	47	46	Yes
NSP-517-NP	712306	4543685	221.3	Yes	47	46	Yes
NSP-529-NP	708980	4543690	222.4	Yes	47	46	Yes
NSP-530-NP	712369	4543683	221.1	Yes	47	46	Yes
NSP-548-NP	712275	4543658	221.3	Yes	47	46	Yes
NSP-558-NP	712309	4543660	221.2	Yes	47	46	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-567-NP	712206	4543569	221.3	Yes	47	46	Yes
NSP-584-NP	712208	4543544	221.5	Yes	47	46	Yes
NSP-586-NP	712168	4543520	221.5	Yes	47	46	Yes
NSP-593-NP	712235	4543495	221.3	Yes	47	46	Yes
NSP-594-NP	712165	4543471	221.5	Yes	47	46	Yes
NSP-596-NP	712165	4543413	221.5	Yes	47	46	Yes
NSP-633-NP	709036	4542681	223.2	Yes	47	46	Yes
NSP-638-NP	708556	4542262	222.8	Yes	47	46	Yes
NSP-652-P	711234	4542330	221.9	Yes	47	46	Yes
NSP-672-NP	713404	4542356	221.1	Yes	47	46	Yes
NSP-673-P	709593	4542282	222.6	Yes	47	46	Yes
NSP-677-NP	710047	4542309	222.6	Yes	47	46	Yes
NSP-679-NP	712975	4542315	221.4	Yes	47	46	Yes
NSP-680-NP	709957	4542288	222.4	Yes	47	46	Yes
NSP-724-P	709357	4541404	223.3	Yes	47	46	Yes
NSP-85-NP	707928	4545490	221.2	Yes	47	46	Yes
NSP-87-NP	708915	4545845	221.7	Yes	47	46	Yes
NSP-87-NP	708922	4545786	221.4	Yes	47	46	Yes
NSP-836-NP	712206	4543569	221.3	Yes	47	46	Yes
NSP-837-NP	712168	4543520	221.5	Yes	47	46	Yes
NSP-107-NP	708753	4545488	221.7	Yes	47	45	Yes
NSP-110-NP	708453	4545483	222.1	Yes	47	45	Yes
NSP-111-NP	708371	4545481	221.6	Yes	47	45	Yes
NSP-131-NP	712118	4544910	220.9	Yes	47	45	Yes
NSP-226-NP	712903	4544035	221.2	Yes	47	45	Yes
NSP-277-NP	712854	4544015	221.2	Yes	47	45	Yes
NSP-283-NP	712997	4544023	221.4	Yes	47	45	Yes
NSP-285-NP	712549	4543998	221	Yes	47	45	Yes
NSP-286-NP	712501	4543988	221	Yes	47	45	Yes
NSP-331-NP	713074	4543965	221.1	Yes	47	45	Yes
NSP-349-NP	712538	4543953	221.1	Yes	47	45	Yes
NSP-349-NP	712463	4543947	221	Yes	47	45	Yes
NSP-349-NP	712404	4543930	221.2	Yes	47	45	Yes
NSP-349-NP	712482	4543930	221.1	Yes	47	45	Yes
NSP-401-NP	712421	4543901	220.9	Yes	47	45	Yes
NSP-405-NP	712404	4543900	220.9	Yes	47	45	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-417-NP	712453	4543897	221	Yes	47	45	Yes
NSP-418-NP	712370	4543881	221	Yes	47	45	Yes
NSP-419-NP	712307	4543874	221.1	Yes	47	45	Yes
NSP-42-NP	707826	4547075	221.7	Yes	47	45	Yes
NSP-429-NP	710523	4543864	221.4	Yes	47	45	Yes
NSP-445-NP	712357	4543817	221.1	Yes	47	45	Yes
NSP-447-NP	712310	4543831	221.2	Yes	47	45	Yes
NSP-448-N2	712266	4543812	221.2	Yes	47	45	Yes
NSP-448-NP	712256	4543824	221.2	Yes	47	45	Yes
NSP-463-NP	712269	4543791	221.3	Yes	47	45	Yes
NSP-475-N2	712310	4543768	221.2	Yes	47	45	Yes
NSP-475-NP	712307	4543788	221.2	Yes	47	45	Yes
NSP-476-NP	712257	4543764	221.2	Yes	47	45	Yes
NSP-478-N2	712201	4543763	221.4	Yes	47	45	Yes
NSP-478-NP	712229	4543769	221.5	Yes	47	45	Yes
NSP-489-NP	710531	4543732	221.5	Yes	47	45	Yes
NSP-491-P	712511	4543924	221	Yes	47	45	Yes
NSP-494-NP	712307	4543733	221.3	Yes	47	45	Yes
NSP-495-NP	712270	4543730	221.2	Yes	47	45	Yes
NSP-503-NP	712218	4543720	221.2	Yes	47	45	Yes
NSP-503-NP	712205	4543705	221.3	Yes	47	45	Yes
NSP-508-N2	712162	4543703	221.4	Yes	47	45	Yes
NSP-508-NP	712158	4543720	221.4	Yes	47	45	Yes
NSP-519-NP	712272	4543684	221.3	Yes	47	45	Yes
NSP-520-NP	712202	4543682	221.4	Yes	47	45	Yes
NSP-522-NP	712164	4543682	221.5	Yes	47	45	Yes
NSP-534-NP	712205	4543660	221.4	Yes	47	45	Yes
NSP-548-NP	712205	4543639	221.5	Yes	47	45	Yes
NSP-548-NP	712205	4543614	221.4	Yes	47	45	Yes
NSP-555-NP	711995	4543617	221.5	Yes	47	45	Yes
NSP-561-NP	712058	4543613	221.4	Yes	47	45	Yes
NSP-567-NP	712206	4543589	221.4	Yes	47	45	Yes
NSP-568-NP	712164	4543594	221.4	Yes	47	45	Yes
NSP-572-NP	711795	4543570	220.9	Yes	47	45	Yes
NSP-577-NP	712162	4543574	221.4	Yes	47	45	Yes
NSP-580-NP	711997	4543567	221.4	Yes	47	45	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-581-NP	711952	4543568	221.2	Yes	47	45	Yes
NSP-586-NP	712163	4543537	221.4	Yes	47	45	Yes
NSP-600-P	711951	4543546	221.3	Yes	47	45	Yes
NSP-600-P	711826	4543521	221.2	Yes	47	45	Yes
NSP-674-NP	710945	4542322	222.2	Yes	47	45	Yes
NSP-678-NP	709351	4542290	223	Yes	47	45	Yes
NSP-687-NP	708734	4542202	222.9	Yes	47	45	Yes
NSP-692-NP	712560	4542301	222.1	Yes	47	45	Yes
NSP-754-NP	708280	4540622	223.5	Yes	47	45	Yes
NSP-92-NP	708937	4545717	221.3	Yes	47	45	Yes
NSP-99-NP	708914	4545493	221.7	Yes	47	45	Yes
NSP-826-NP	712482	4543930	221.1	Yes	47	45	Yes
NSP-827-NP	712463	4543947	221	Yes	47	45	Yes
NSP-828-NP	712404	4543930	221.2	Yes	47	45	Yes
NSP-832-NP	711826	4543521	221.2	Yes	47	45	Yes
NSP-833-NP	712205	4543705	221.3	Yes	47	45	Yes
NSP-834-NP	712205	4543614	221.4	Yes	47	45	Yes
NSP-835-NP	712205	4543639	221.5	Yes	47	45	Yes
NSP-121-NP	712171	4545200	221.3	Yes	47	44	Yes
NSP-123-NP	712168	4545145	220.8	Yes	47	44	Yes
NSP-13-NP	708362	4548648	221.2	Yes	47	44	Yes
NSP-136-NP	710494	4544685	221.3	Yes	47	44	Yes
NSP-137-P	712189	4544725	220.8	Yes	47	44	Yes
NSP-138-NP	708950	4544631	221.9	Yes	47	44	Yes
NSP-204-NP	712498	4544133	221.7	Yes	47	44	Yes
NSP-237-NP	712395	4544090	221	Yes	47	44	Yes
NSP-238-NP	712355	4544090	220.9	Yes	47	44	Yes
NSP-250-NP	712500	4544078	221.5	Yes	47	44	Yes
NSP-256-NP	712367	4544051	220.8	Yes	47	44	Yes
NSP-257-NP	712296	4544048	220.6	Yes	47	44	Yes
NSP-258-NP	710526	4544021	221.4	Yes	47	44	Yes
NSP-261-NP	712454	4544052	221.1	Yes	47	44	Yes
NSP-265-NP	712424	4544049	221	Yes	47	44	Yes
NSP-273-NP	712354	4544029	220.7	Yes	47	44	Yes
NSP-274-NP	712296	4544026	220.8	Yes	47	44	Yes
NSP-298-NP	712439	4543987	221	Yes	47	44	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-300-NP	712424	4543985	220.9	Yes	47	44	Yes
NSP-301-NP	712401	4544003	220.9	Yes	47	44	Yes
NSP-309-NP	711510	4543962	220.8	Yes	47	44	Yes
NSP-315-NP	712365	4543999	220.8	Yes	47	44	Yes
NSP-317-NP	712322	4543982	221	Yes	47	44	Yes
NSP-318-NP	712301	4543981	221.2	Yes	47	44	Yes
NSP-324-NP	712109	4543976	221.2	Yes	47	44	Yes
NSP-339-NP	710602	4543937	221.4	Yes	47	44	Yes
NSP-383-NP	712092	4543911	221.6	Yes	47	44	Yes
NSP-403-NP	712310	4543901	221.3	Yes	47	44	Yes
NSP-408-NP	712094	4543893	221.7	Yes	47	44	Yes
NSP-420-N2	712251	4543872	221.4	Yes	47	44	Yes
NSP-420-NP	712257	4543891	221.2	Yes	47	44	Yes
NSP-422-NP	711941	4543868	221.2	Yes	47	44	Yes
NSP-423-NP	712149	4543871	221.3	Yes	47	44	Yes
NSP-425-NP	712090	4543867	221.3	Yes	47	44	Yes
NSP-428-NP	712052	4543863	221.4	Yes	47	44	Yes
NSP-441-NP	712053	4543828	221.4	Yes	47	44	Yes
NSP-442-NP	711998	4543824	221.4	Yes	47	44	Yes
NSP-443-NP	711946	4543821	221.3	Yes	47	44	Yes
NSP-444-NP	711885	4543819	221.4	Yes	47	44	Yes
NSP-446-NP	711830	4543824	221.4	Yes	47	44	Yes
NSP-449-NP	708914	4543813	222.3	Yes	47	44	Yes
NSP-450-NP	712214	4543813	221.3	Yes	47	44	Yes
NSP-452-NP	712149	4543814	221.5	Yes	47	44	Yes
NSP-453-NP	711792	4543830	221.2	Yes	47	44	Yes
NSP-454-NP	712091	4543825	221.3	Yes	47	44	Yes
NSP-455-NP	708766	4543808	222.4	Yes	47	44	Yes
NSP-456-NP	712051	4543804	221.3	Yes	47	44	Yes
NSP-457-NP	711983	4543803	221.4	Yes	47	44	Yes
NSP-460-NP	711842	4543796	221.3	Yes	47	44	Yes
NSP-467-NP	712092	4543783	221.4	Yes	47	44	Yes
NSP-469-NP	711988	4543778	221.4	Yes	47	44	Yes
NSP-479-N2	712155	4543763	221.6	Yes	47	44	Yes
NSP-479-NP	712159	4543779	221.6	Yes	47	44	Yes
NSP-480-NP	712097	4543758	221.3	Yes	47	44	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-482-N2	712047	4543758	221.4	Yes	47	44	Yes
NSP-482-NP	712054	4543778	221.4	Yes	47	44	Yes
NSP-484-NP	711934	4543774	221.3	Yes	47	44	Yes
NSP-486-NP	711851	4543753	221.1	Yes	47	44	Yes
NSP-487-NP	711784	4543753	221	Yes	47	44	Yes
NSP-500-NP	712057	4543720	221.4	Yes	47	44	Yes
NSP-502-NP	712008	4543720	221.4	Yes	47	44	Yes
NSP-509-NP	711817	4543724	221.1	Yes	47	44	Yes
NSP-509-NP	711838	4543718	221.2	Yes	47	44	Yes
NSP-510-NP	712113	4543719	221.5	Yes	47	44	Yes
NSP-521-NP	711893	4543669	221.4	Yes	47	44	Yes
NSP-528-NP	711947	4543689	221.4	Yes	47	44	Yes
NSP-538-NP	712051	4543656	221.5	Yes	47	44	Yes
NSP-539-NP	711999	4543651	221.4	Yes	47	44	Yes
NSP-541-NP	711952	4543648	221.4	Yes	47	44	Yes
NSP-544-NP	711823	4543654	221	Yes	47	44	Yes
NSP-564-NP	711953	4543609	221.3	Yes	47	44	Yes
NSP-565-NP	711899	4543601	221.7	Yes	47	44	Yes
NSP-675-NP	713550	4542353	221	Yes	47	44	Yes
NSP-684-NP	710396	4542243	222.6	Yes	47	44	Yes
NSP-689-NP	708964	4542167	223	Yes	47	44	Yes
NSP-89-NP	712094	4545774	220.7	Yes	47	44	Yes
NSP-57-P	709840	4547075	220.9	Yes	47	44	Yes
NSP-814-NP	708806	4549116	221	Yes	47	44	Yes
NSP-817-NP	707587	4546997	221.4	Yes	47	44	Yes
NSP-819-NP	707631	4540595	224	Yes	47	44	Yes
NSP-831-NP	711838	4543718	221.2	Yes	47	44	Yes
NSP-106-P	712238	4545538	220.7	Yes	47	43	Yes
NSP-145-NP	708893	4544472	222	Yes	47	43	Yes
NSP-157-NP	711111	4543951	221.2	Yes	47	43	Yes
NSP-159-NP	708972	4544296	222	Yes	47	43	Yes
NSP-173-NP	712510	4544212	221.1	Yes	47	43	Yes
NSP-175-NP	712486	4544195	221	Yes	47	43	Yes
NSP-176-NP	712455	4544215	221.1	Yes	47	43	Yes
NSP-179-NP	712404	4544210	221.2	Yes	47	43	Yes
NSP-180-NP	712359	4544218	221.1	Yes	47	43	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-181-NP	712334	4544193	221.2	Yes	47	43	Yes
NSP-182-NP	712141	4544175	220.9	Yes	47	43	Yes
NSP-183-NP	712316	4544199	221.1	Yes	47	43	Yes
NSP-184-NP	712290	4544195	221.1	Yes	47	43	Yes
NSP-185-NP	712259	4544201	221.1	Yes	47	43	Yes
NSP-186-NP	712233	4544190	220.8	Yes	47	43	Yes
NSP-188-NP	712354	4544157	221.1	Yes	47	43	Yes
NSP-189-NP	712296	4544156	221.1	Yes	47	43	Yes
NSP-190-NP	712247	4544153	220.9	Yes	47	43	Yes
NSP-193-NP	712450	4544159	221.1	Yes	47	43	Yes
NSP-193-NP	712432	4544154	221.1	Yes	47	43	Yes
NSP-194-NP	712146	4544153	221.1	Yes	47	43	Yes
NSP-197-NP	712395	4544152	221	Yes	47	43	Yes
NSP-199-NP	712042	4544143	220.4	Yes	47	43	Yes
NSP-205-NP	712356	4544135	221.1	Yes	47	43	Yes
NSP-208-NP	710807	4543983	221.5	Yes	47	43	Yes
NSP-209-NP	712254	4544134	221	Yes	47	43	Yes
NSP-213-NP	712148	4544131	220.8	Yes	47	43	Yes
NSP-215-NP	712092	4544134	221	Yes	47	43	Yes
NSP-216-NP	712039	4544120	221	Yes	47	43	Yes
NSP-219-NP	712395	4544111	221	Yes	47	43	Yes
NSP-220-NP	712366	4544113	221.1	Yes	47	43	Yes
NSP-221-NP	712295	4544116	221	Yes	47	43	Yes
NSP-224-NP	712259	4544111	220.7	Yes	47	43	Yes
NSP-225-NP	712189	4544107	220.7	Yes	47	43	Yes
NSP-229-NP	712149	4544107	221	Yes	47	43	Yes
NSP-231-NP	712043	4544103	221.2	Yes	47	43	Yes
NSP-239-NP	712298	4544090	220.9	Yes	47	43	Yes
NSP-240-NP	712257	4544082	220.4	Yes	47	43	Yes
NSP-241-NP	712193	4544086	220.9	Yes	47	43	Yes
NSP-243-NP	712140	4544086	221	Yes	47	43	Yes
NSP-245-NP	712081	4544086	221.3	Yes	47	43	Yes
NSP-246-NP	712042	4544077	221.2	Yes	47	43	Yes
NSP-247-NP	711978	4544078	221	Yes	47	43	Yes
NSP-247-NP	712001	4544075	221.1	Yes	47	43	Yes
NSP-263-NP	712139	4544041	221.1	Yes	47	43	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-267-NP	712086	4544041	221.2	Yes	47	43	Yes
NSP-269-NP	712047	4544039	221.2	Yes	47	43	Yes
NSP-275-P	711352	4543957	221.3	Yes	47	43	Yes
NSP-281-NP	712083	4544024	221.3	Yes	47	43	Yes
NSP-282-NP	712042	4544016	221.3	Yes	47	43	Yes
NSP-306-NP	712019	4543992	221.4	Yes	47	43	Yes
NSP-310-NP	711848	4543978	221.1	Yes	47	43	Yes
NSP-311-NP	711804	4543978	221	Yes	47	43	Yes
NSP-314-NP	713417	4543977	221.2	Yes	47	43	Yes
NSP-333-NP	711762	4543962	220.8	Yes	47	43	Yes
NSP-340-NP	710876	4543954	221.4	Yes	47	43	Yes
NSP-390-NP	711379	4543906	221.2	Yes	47	43	Yes
NSP-397-NP	711818	4543927	221.1	Yes	47	43	Yes
NSP-398-NP	711763	4543911	220.8	Yes	47	43	Yes
NSP-398-NP	711727	4543899	220.6	Yes	47	43	Yes
NSP-414-NP	710914	4543891	221.4	Yes	47	43	Yes
NSP-416-NP	711882	4543884	221.2	Yes	47	43	Yes
NSP-424-NP	708471	4543874	222.4	Yes	47	43	Yes
NSP-427-NP	711830	4543870	221.1	Yes	47	43	Yes
NSP-432-NP	711787	4543862	221.1	Yes	47	43	Yes
NSP-5-NP	709417	4548672	220.8	Yes	47	43	Yes
NSP-55-NP	710488	4546863	220.5	Yes	47	43	Yes
NSP-606-NP	713780	4543223	221.1	Yes	47	43	Yes
NSP-612-NP	713865	4543167	220.8	Yes	47	43	Yes
NSP-616-NP	713848	4543042	221	Yes	47	43	Yes
NSP-683-NP	713743	4542351	221.2	Yes	47	43	Yes
NSP-7-P	709213	4548680	220.9	Yes	47	43	Yes
NSP-742-NP	708503	4540641	224.1	Yes	47	43	Yes
NSP-77-NP	712083	4546052	220.6	Yes	47	43	Yes
NSP-784-NP	709078	4539446	224.1	Yes	47	43	Yes
NSP-818-NP	707358	4543598	222.8	Yes	47	43	Yes
NSP-821-NP	709151	4539170	224.3	Yes	47	43	Yes
NSP-829-NP	712432	4544154	221.1	Yes	47	43	Yes
NSP-830-NP	712001	4544075	221.1	Yes	47	43	Yes
NSP-838-NP	711727	4543899	220.6	Yes	47	43	Yes
NSP-589-NP	713846	4543506	220.9	Yes	47	42	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-682-NP	713801	4542330	221	Yes	47	42	Yes
NSP-716-NP	710595	4541590	222.9	Yes	47	42	Yes
NSP-723-NP	710599	4541455	222.5	Yes	47	42	Yes
NSP-733-NP	710579	4541289	222.6	Yes	47	42	Yes
NSP-737-NP	711919	4541156	222.5	No	42	42	Yes
NSP-755-NP	710172	4540632	223.3	Yes	47	42	Yes
NSP-779-NP	709060	4540009	223.8	Yes	47	42	Yes
NSP-815-NP	707246	4548010	221.5	Yes	47	42	Yes
NSP-820-NP	707427	4541143	223.9	Yes	47	42	Yes
NSP-141-NP	712683	4544508	220.5	Yes	47	41	Yes
NSP-731-P	712317	4541338	222.4	Yes	47	41	Yes
NSP-741-NP	710683	4541073	222.1	Yes	47	41	Yes
NSP-774-NP	709105	4540086	223.7	Yes	47	41	Yes
NSP-811-NP	710372	4548770	220.4	Yes	47	41	Yes
NSP-323-NP	713841	4543975	221.5	Yes	47	40	Yes
NSP-67-P	712120	4546400	220	Yes	47	40	Yes
NSP-693-NP	713807	4542011	221.2	Yes	47	40	Yes
NSP-753-NP	710696	4540700	222.9	Yes	47	40	Yes
NSP-96-NP	712527	4545611	220.5	Yes	47	40	Yes
NSP-812-NP	709917	4550332	219.9	Yes	47	40	Yes
NSP-187-NP	713727	4544165	220.9	Yes	47	39	Yes
NSP-320-NP	713960	4543989	221.2	Yes	47	39	Yes
NSP-62-NP	712055	4546572	218.6	Yes	47	39	Yes
NSP-698-NP	713886	4542063	220.9	Yes	47	39	Yes
NSP-745-NP	712290	4541028	222.1	Yes	47	39	Yes
NSP-816-NP	707204	4548819	220.4	Yes	47	39	Yes
NSP-100-NP	712950	4545565	220.3	Yes	47	38	Yes
NSP-554-NP	714384	4543262	221.1	Yes	47	38	Yes
NSP-664-NP	714266	4542429	221.3	Yes	47	38	Yes
NSP-751-P	712250	4540747	222.2	Yes	47	38	Yes
NSP-101-NP	713027	4545563	220.2	Yes	47	37	Yes
NSP-202-NP	714247	4544062	221.3	Yes	47	37	Yes
NSP-45-NP	711976	4546977	219.4	No	42	37	Yes
NSP-649-NP	714559	4542540	220.5	No	42	37	Yes
NSP-656-NP	714497	4542489	221.3	Yes	47	37	Yes
NSP-717-NP	713837	4541642	220.7	Yes	47	37	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-729-NP	713552	4541273	220.6	No	42	37	Yes
NSP-758-NP	712284	4540538	222.4	Yes	47	37	Yes
NSP-810-NP	710976	4548813	220.6	Yes	47	37	Yes
NSP-822-NP	710661	4539773	222.8	Yes	47	37	Yes
NSP-1-P	711421	4548741	220	Yes	47	36	Yes
NSP-124-NP	713717	4545217	220	Yes	47	36	Yes
NSP-200-NP	714400	4544064	221.1	Yes	47	36	Yes
NSP-37-NP	712043	4547216	219.7	Yes	47	36	Yes
NSP-38-NP	712260	4547224	219.4	Yes	47	36	Yes
NSP-728-NP	713902	4541353	221.5	Yes	47	36	Yes
NSP-752-NP	712884	4540716	221.8	Yes	47	36	Yes
NSP-98-NP	713256	4545570	219.9	Yes	47	36	Yes
NSP-823-NP	710750	4539531	223.1	Yes	47	36	Yes
NSP-824-NP	710480	4539060	223.2	Yes	47	36	Yes
NSP-102-NP	713662	4545617	218.5	Yes	47	35	Yes
NSP-103-NP	713604	4545568	217.5	Yes	47	35	Yes
NSP-118-NP	713653	4545430	219.5	No	42	35	Yes
NSP-33-NP	712651	4547259	219.7	Yes	47	35	Yes
NSP-34-NP	712583	4547255	219.7	Yes	47	35	Yes
NSP-595-NP	714926	4543270	220.8	Yes	47	35	Yes
NSP-681-NP	714847	4542354	220.4	Yes	47	35	Yes
NSP-704-NP	714599	4541961	220.6	Yes	47	35	Yes
NSP-720-NP	714375	4541572	221.7	Yes	47	35	Yes
NSP-93-NP	713482	4545706	219.7	No	42	35	Yes
NSP-803-NP	714610	4544015	220.9	Yes	47	35	Yes
NSP-650-NP	715006	4542454	221.1	Yes	47	34	Yes
NSP-70-NP	713694	4546054	219.9	Yes	47	34	Yes
NSP-785-NP	713857	4545976	219.9	No	42	34	Yes
NSP-797-NP	713767	4545697	218.4	Yes	47	34	Yes
NSP-799-NP	713854	4545557	219.9	Yes	47	34	Yes
NSP-801-NP	714952	4544083	220.8	Yes	47	34	Yes
NSP-802-NP	714819	4544026	220.7	Yes	47	34	Yes
NSP-807-NP	713926	4540730	222.6	Yes	47	34	Yes
NSP-796-NP	713764	4546720	219.9	Yes	47	33	Yes
NSP-798-NP	714132	4545663	220.2	Yes	47	33	Yes
NSP-800-NP	715413	4543077	219.8	Yes	47	33	Yes

Receptor (P-Participant, NP-Non-Participant)	Easting (m)	Northing (m)	Ground Elevation (m)	Within 250 ft of a roadway	Noise Limit (dBA)	Predicted Noise Level (dBA)	Compliant with Sound Limits
NSP-805-NP	714707	4541459	221.5	Yes	47	33	Yes
NSP-806-NP	714374	4540827	221.4	Yes	47	33	Yes
NSP-825-NP	712437	4539371	223.5	Yes	47	33	Yes
NSP-804-NP	715450	4541834	221.5	Yes	47	32	Yes
NSP-813-NP	711927	4550398	219.9	Yes	47	32	Yes
NSP-18-NP	713614	4548033	219.1	Yes	47	31	Yes
NSP-793-NP	713697	4548426	219.4	Yes	47	31	Yes
NSP-795-NP	714337	4547232	217.6	Yes	47	31	Yes
NSP-808-NP	713403	4539182	223.1	Yes	47	31	Yes
NSP-794-NP	715314	4545997	219.9	Yes	47	30	Yes
NSP-809-NP	713845	4539182	222.6	Yes	47	30	Yes
NSP-787-NP	714250	4548946	219.6	Yes	47	29	Yes
NSP-791-NP	714510	4548863	219.1	Yes	47	29	Yes
NSP-792-NP	714285	4548839	219.1	Yes	47	29	Yes
NSP-788-NP	714921	4548954	219.4	Yes	47	28	Yes
NSP-789-NP	715093	4548959	219.4	Yes	47	28	Yes
NSP-790-NP	715178	4548962	219.3	Yes	47	28	Yes
NSP-786-NP	715205	4549140	219.2	Yes	47	27	Yes

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1/7/2022 1:25:51 PM

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Case No(s). 20-0417-EL-BGN

Summary: Response - Supplemental Response to Seventh Data Request from
Staff of the Ohio Power Siting Board electronically filed by Christine M.T. Pirik on
behalf of Grover Hill Wind, LLC