

DOCKETED

Docket Number:	26-OPT-01
Project Title:	Vaca Dixon Power Center Project
TN #:	270279
Document Title:	Appendix DR NOI-2 Updated RCNM Measurements
Description:	Appendix to Data Request Response Set #1
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Submitter Role:	Applicant Consultant
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Appendix DR NOI-2

Updated RCNM Measurements

Construction Noise

Leq Distance	Noise Level @ 50 ft	Single-Fam Res on Mills Lane to N 1425	Single-Fam Res on Willow Road to SW 1470	Single Family on Kilkenny Road to E 2220	Multi Family to SW 1900
Access Road	80	50.903	50.633	47.052	48.404
Site Preparation	84	54.903	54.633	51.052	52.404
Grading	84	54.903	54.633	51.052	52.404
Install Foundations & Equipment	94	64.903	64.633	61.052	62.404
Set Modules, Inverters & Switchgear	73	43.903	43.633	40.052	41.404
Electrical Wire Installation & Finish Grading	82	52.903	52.633	49.052	50.404
Leq Distance (From gen-tie line)	Noise Level @ 50 ft	Single-Fam Res on Mills Lane to N 95	Single-Fam Res on Willow Road to SW 1120	Single Family on Kilkenny Road to E 2775	Multi Family to SW 1400
Gen-Tie Installation	82	76.425	54.995	47.114	53.057
Leq Distance (From power pole next to I-80)	Noise Level @ 50 ft	Single-Fam Res on Mills Lane to N 785	Single-Fam Res on Willow Road to SW 1310	Single Family on Kilkenny Road to E 2775	Multi Family to SW 1430
Electrical Wire Installation & Finish Grading (With Helicopter)	84	60.082	55.634	49.114	54.873

Construction Vibration

Distance from Project boundary	Vibration @ 25 ft	Commercial (Northwest)
		410
Vibratory Roller	0.21	0.003
Large Bulldozer	0.089	0.001
Loaded Trucks	0.076	0.001
Small Bulldozer	0.003	0.000
Distance from nearest BESS unit	Vibration @ 25 ft	Commercial (Northwest)
		600
Impact Pile Driver	1.518	0.013
Gen-Tie Installation	Vibration @ 25 ft	Commercial (West)
		160
Large Bulldozer	0.089	0.0055
Loaded Trucks	0.076	0.0047
Small Bulldozer	0.003	0.0002

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 08/21/2025
 Case Description: Install Foundations & Equipment

**** Receptor #1 ****

Description	Baselines (dBA)			
	Land Use	Daytime	Evening	Night
Install Foundations & Equipment	Residential	65.0	55.0	50.0

Description	Equipment					
	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Impact Pile Driver	Yes	20		101.3	50.0	0.0
Drum Mixer	No	50		80.0	50.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
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Night	Day		Calculated (dBA)		Day		Evening					
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Impact Pile Driver	N/A	N/A	101.3	94.3	N/A	N/A	N/A	N/A	N/A	N/A		
Drum Mixer	N/A	N/A	80.0	77.0	N/A	N/A	N/A	N/A	N/A	N/A		
Total		N/A	101.3	94.4	N/A	N/A	N/A	N/A	N/A	N/A		

Operational Noise Results Table – SoundPLAN

Receiver	Usage	Fl	Ldn dB(A)	Leq,d dB(A)	Leq,n dB(A)
R-1	SCR	G	50.1	43.7	43.7
R-2	SCR	G	53.6	47.2	47.2
R-3	SCR	G	52.6	46.2	46.2
R-4	SCR	G	51.1	44.7	44.7
R-4	SCR	F2	51.2	44.8	44.8
R-5	SCR	G	55	48.5	48.5