

APPENDIX A. CURTAILMENT STRATEGY FOR NORTHERN LONG-EARED BAT BY LOCATION AND DATE. Depicts the curtailment wind speeds in miles per hour (mph; meters per second (m/s)) described under the Land-based Wind Energy Avoidance Guidance for Northern Long-eared Bat (*Myotis septentrionalis*) by state, part of the range (if applicable), date, and whether the project has summer risk¹ (highlighted in gray) or fall migratory risk² (highlighted with gray diagonal stripe pattern). Turbines should be feathered below the curtailment wind speeds starting 30 minutes before sunset to 30 minutes after sunrise when temperatures are above 40°F³. If no curtailment is described during a time (e.g., N/A) no curtailment is required⁴. Note, if project(s) and or the local Field Office has site-specific data that show that the active season is shorter than described in this table, that is acceptable. For example, a project sited away from known hibernacula in Missouri and has acoustic data that shows that bat activity drops off after October 31. This project does not need to curtail at 11.2 mph (5.0 m/s) from November 1 to 15 and this should be reflected in the project’s TAL.

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1- 14	May 15- 31	Jun 1 - 14	Jun 15 - Jul 14	Jul 15 - 31	Aug 1 - 15	Aug 16 - 31	Sept 1 - Oct 31	Nov 1 - 15	Nov 16 - Dec 31
Alabama: Hibernating Range	N/A	Manufacturer’s cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Alabama: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)	Manufacturer’s cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)						
Arkansas	N/A	Manufacturer’s cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Connecticut	N/A		Manufacturer’s cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)	N/A			
Delaware	N/A		Manufacturer’s cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
District of Columbia	N/A		Manufacturer’s cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		

¹If the project has summer risk, turbines should be feathered below the cut-in speeds provided in the table during the pup season. If the project does not have summer risk (i.e., did not detect or capture tricolored bats during a P/A survey), the project should feather turbines below the manufacturer’s cut-in speeds during this period (i.e., pup season).

² Fall migratory risk consists of the fall swarm activity period.

³ Temperature should be measured at the turbine nacelle.

⁴ A facility may operate at either the manufacturer’s cut-in speed or uncurtailed (i.e., turbine blades can rotate freely at any windspeed and are not feathered).

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1- 14	May 15- 31	Jun 1 - 14	Jun 15 - Jul 14	Jul 15 - 31	Aug 1 - 15	Aug 16 - 31	Sept 1 - Oct 31	Nov 1 - 15	Nov 16 - Dec 31
Georgia: Hibernating Range	N/A	Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Georgia: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)	Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)						
Illinois	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Indiana	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Iowa	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Kansas	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Kentucky	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Louisiana: Year- round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)	Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)						
Maine	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			
Maryland	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Massachusetts	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			
Michigan (Outside Indiana Bat Range)	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			

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Michigan (Within Indiana Bat Range)	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Minnesota	N/A			Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A		
Mississippi: Hibernating Range	N/A	Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Mississippi: Year- round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)	Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)						
Missouri	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Montana	N/A			Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A		
Nebraska	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
New Hampshire	N/A			Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A		
New Jersey	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
New York	N/A			Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A		
North Carolina: Hibernating Range	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
North Carolina: Year-round Active Range (Zone 1)	11.2 mph (5.0 m/s)	Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)						

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North Dakota	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			
Ohio	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Oklahoma	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Pennsylvania	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Rhode Island	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			
South Carolina: Hibernating Range	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
South Carolina: Year-round Active Range (Zone 1)	11.2 mph (5.0 m/s)	Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)							
South Dakota (Black Hills)	N/A			Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s) ⁵		N/A		
South Dakota (Plains)	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			
Tennessee	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Vermont	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A			
Virginia: Hibernating Range	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		

⁵ For the projects in the Black Hills of South Dakota, 11.2 mph (5.0 m/s) only needs to be implemented from September 1 – 30. From October 1 – 31st turbines can operate uncurtailed or feathered below manufacturer's cut-in speed.

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Virginia: Year-round Active Range (Zone 1)	11.2 mph (5.0 m/s)	Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)						
West Virginia	N/A		Manufacturer's cut-in speed		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A		
Wisconsin	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A		
Wyoming (Black Hills)	N/A			Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s) ⁶	N/A		
Wyoming (Plains)	N/A		Manufacturer's cut-in speed			11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		N/A		

⁶ For the projects in the Black Hills of Wyoming, 11.2 mph (5.0 m/s) only needs to be implemented from September 1 – 30. From October 1 – 31st turbines can operate uncurtailed or feathered below manufacturer's cut-in speed.