**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 Technical Assistance for Northern Long-eared Bat (*Myotis septentrionalis*) by state, part of the range (if applicable), date, and whether the project has summer risk<sup>1</sup> (highlighted in gray) or fall migratory risk<sup>2</sup> (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°F<sup>3</sup>. If no curtailment is described during a time (e.g., N/A) no curtailment is required<sup>4</sup>. 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	Man	ufacture	r's cut-in s	speed		n (5.0 m/s)			N/A				
Alabama: Year- round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)	1	Manufacturer's cut-in speed				n (5.0 m/	s)		11.2 mph (5.0 m/s)				
Arkansas	N/A	Manufac	turer's c	ut-in speed	d		11.2 mp	n (5.0 m/s)				N/A		
Connecticut		N/A		Manufact	turer's cu	t-in speed		11.2 mph	(5.0 m/s)	)	N	N/A		
Delaware	N	/A	Manı	ıfacturer's speed	11.2  mph  (5.0  m/s)					11.2 mph (5.0 m/s)				N/A
District of Columbia	N	/A	Manı	ıfacturer's speed	cut-in	11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)				N/A	

<sup>&</sup>lt;sup>1</sup>If 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).

<sup>&</sup>lt;sup>2</sup> Fall migratory risk consists of the fall swarm activity period.

<sup>&</sup>lt;sup>3</sup> Temperature should be measured at the turbine nacelle.

<sup>&</sup>lt;sup>4</sup> 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 -	Apr 15 -	May 1-	May 15-	Jun 1 - 14	Jun 15 – Jul 14	Jul 15 - 31	Aug 1 –	Aug 16 - 31	Sept 1 – Oct 31	Nov 1 -	Nov 16 - Dec 31	
Georgia: Hibernating Range	N/A	Man	ufacture	r's cut-in	speed		h (5.0 m/s)			11.2 mph (5.0 m/s)					
Georgia: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)		facturer' speed	s cut-in		11.2 mph	(5.0 m/s	()			11.2 mph (5.0 m/s)				
Illinois	N	/A	Man	ufacturer's speed	cut-in		h (5.0 m/s)		11.2 mph (5.0 m/s)						
Indiana	N	/A	Man	ufacturer's speed	cut-in		h (5.0 m/s)		11.2 mp	h (5.0 m/s)	ı	N/A			
Iowa	N	/A	Man	ufacturer's speed	cut-in		h (5.0 m/s)	11.2 mph (5.0 m/s)				N/A			
Kansas	N	/A	Man	Manufacturer's cut-in speed			11.2 mp	h (5.0 m/s)			11.2 mp	h (5.0 m/s)		N/A	
Kentucky	N	/A	Man	ufacturer's speed	cut-in		11.2 mp	h (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)	1	facturer' speed	s cut-in		11.2 mph (5.0 m/s)					11.2 m	oh (5.0 m/s	5)		
Maine		N/A		Manufac	turer's cu	t-in speed 11.2 mph (5.0 m/s)				)		2 mph ) m/s)		N/A	
Maryland	N	/A	Man	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			11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)			N/A		

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 -	May 1-	May 15-	Jun 1 - 14	Jun 15 – Jul 14	Jul 15 - 31	Aug 1 –	Aug 16 - 31	Sept 1 – Oct 31	Nov 1 -	Nov 16 - Dec 31	
Michigan (Within Indiana Bat Range)	N/	'A	Man	ufacturer's speed	cut-in		h (5.0 m/s)		11.2 mph (5.0 m/s)						
Minnesota	N/A			Manufac	turer's cu	t-in speed	in speed 11.2 mph (5.0 m/s)				11.2 r	]	N/A		
Mississippi: Hibernating Range	N/A	Man	ufacture	r's cut-in	speed		11.2 mp	h (5.0 m/s)			11.2 mp	h (5.0 m/s)		N/A	
Mississippi: Year- round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)		facturer' speed	s cut-in	cut-in 11.2 mph (5.0 m/s)						11.2 mph (5.0 m/s)				
Missouri	N/	'A	Man	ufacturer's speed	cut-in		11.2 mp	h (5.0 m/s)		11.2 mph (5.0 m/s)				N/A	
Montana		N/A		Manufac	turer's cu	t-in speed		11.2 mph	(5.0 m/s)	)	1	2 mph 0 m/s)	]	N/A	
Nebraska	N/	N/A Man			cut-in		11.2 mp	h (5.0 m/s)	1		11.2 mp	h (5.0 m/s)		N/A	
New Hampshire		N/A		Manufac	turer's cu	t-in speed 11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)			]	N/A		
New Jersey	N/	'A	Man	ufacturer's	cut-in		11.2 mph (5.0 m/s)				11.2 mp		N/A		
New York	N/A			Manufac	turer's cu	t-in speed	-in speed 11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)				N/A	
North Carolina: Hibernating Range	N/A Man			ufacturer's speed	cut-in		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)	Manu	facturer' speed	s cut-in		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)					

State	Jan 1 - Mar 14	Mar 15-	Apr 1 -	Apr 15 -	May 1-	May 15-	Jun 1 - 14	Jun 15 – Jul 14	Jul 15 - 31	Aug 1 –	Aug 16 - 31	Sept 1 – Oct 31	Nov 1 -	Nov 16 - Dec 31
North Dakota		N/A		Manufac	turer's cu		11.2 mph	(5.0 m/s)	)	11.2 r	N/A			
Ohio	N/A Man			Manufacturer's cut-in speed			11.2 mp	h (5.0 m/s)		11.2 mph (5.0 m/s)				N/A
Oklahoma	N	/A	Man	ufacturer's speed	cut-in		h (5.0 m/s)			11.2 mp	١	N/A		
Pennsylvania	N	/A	Man	ufacturer's speed	cut-in		11.2 mp	h (5.0 m/s)			11.2 mp	h (5.0 m/s)	)	N/A
Rhode Island	N/A Man				turer's cu	t-in speed		11.2 mph	(5.0 m/s)	)	11.2 mph (5.0 m/s)			N/A
South Carolina: Hibernating Range	N	N/A Manufacture spee				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)		facturer'	s cut-in	11.2 mph (5.0 m/s)						11.2 m	s)		
South Dakota (Black Hills)		N/	'A		Manu	facturer's speed	cut-in 11.2 mph (			(5.0 m/s) 11.2 mph (5.0 m/s) <sup>5</sup>			N/A	
South Dakota (Plains)		N/A		Manufac	turer's cu	t-in speed	eed 11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)				N/A
Tennessee	N	/A	Man	ufacturer's speed	cut-in		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)			١	N/A
Vermont		N/A		Manufacturer's cut-in sp			11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)			N/A	
Virginia: Hibernating Range	N	/A	Man	ufacturer's speed	cut-in		11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)			N/A

 $<sup>^5</sup>$  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 – 31<sup>st</sup> turbines can operate uncurtailed or feathered below manufacturer's cut-in speed.

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1-	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	
Virginia: Year- round Active Range (Zone 1)	11.2 mph (5.0 m/s)		facturer' speed	s cut-in		11.2 mph	(5.0 m/s	)		11.2 mph (5.0 m/s)					
West Virginia	N/	'A	Man	ıfacturer's speed	cut-in		11.2 mp	h (5.0 m/s)		11.2 mph (5.0 m/s)				N/A	
Wisconsin		N/A		Manufac	turer's cu	t-in speed		11.2 mph	11.2 mph (5.0 m/s)				1	N/A	
Wyoming (Black Hills)		N/	'A		Manu	facturer's o	cut-in	1	1.2 mph (	(5.0 m/s)		11.2 mph (5.0 m/s) <sup>6</sup>	N/A		
Wyoming (Plains)		N/A Manuf				turer's cut-in speed 1			11.2 mph (5.0 m/s)			2 mph 0 m/s)	1	N/A	

 $<sup>^6</sup>$  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.