

Weaver Wind Project

MDEP Natural Resource Protection Act Application

ATTACHMENT 7: CONSTRUCTION PLAN

7.0 CONSTRUCTION PLAN

The Applicant's owners have extensive experience constructing wind energy facilities in Maine, with six projects currently in operation. The Applicant is committed to constructing facilities that minimize environmental impacts and comply with regulatory requirements and recommendations.

Construction of the project is projected to begin in the spring 2019 with the goal of project completion set for summer of 2020. The sequence of project construction will generally adhere to the timeline detailed below (Table 7-1), although adjustments may be necessary to accommodate seasonality and weather conditions.

The project site will be accessed by the network of existing logging roads. Construction will likely be somewhat linear, but multiple areas may be constructed concurrently depending on the final overall construction schedule.

Once the site or portions of the site are cleared, such areas will be grubbed and earthwork to build crane paths and pads will commence. When an area has sufficient roads and pads built to accommodate foundation construction, foundations will be built in place with concrete delivered from a redi-mix concrete plant.

Concurrently to earthwork and foundation installations, the electrical collection system will be installed. Underground collection systems along turbine strings will likely be constructed in conjunction with the earthwork activities in those areas. Underground collection lines located along existing access roads, as well as the overhead collection system, will be constructed at a time that accommodates the overall project schedule.

Turbines will be delivered to the site and may be temporarily staged at laydown areas or delivered directly to the turbine pads. This will depend on the final construction schedule. Turbine erection will generally be linear, depending on the final construction schedule. Components will be erected by several crews, with each crew focusing on certain components (i.e. one crew for lower level components and other crews focusing on mid and high-level components). As individual turbines are completed, internal electrical and cleaning work will occur.

Substation construction will likely occur concurrently with other work on site. The site will be prepared to provide sub-grade or final-grade for foundation construction. Foundations will be cast on site with concrete from an offsite commercial redi-mix plant. Once foundations are constructed, structural steel will be installed to support the substation. Other control buildings, as needed, within the fenced substation yard will either be constructed on site or pre-fabricated and delivered. If necessary, the substation will be energized for back feeding the site collection system and the turbines for final testing and commissioning.

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Task	Timeframe
Preliminary layout and staking of new road segments, turbine clearings, and laydown areas	Weeks 1–8
Clear and erect temporary and permanent met towers	Weeks 1-4
Install erosion control measures in areas to be disturbed	Weeks 9–13
Clear for roads, collection system, turbines, and laydown areas	Weeks 4–16
Grubbing and initial grading for roads, turbines, and laydown areas	Weeks 16–24
Blasting (as needed) and on-site stockpiling of reusable blasted bedrock	Weeks 16–30
Construct substation	Weeks 20–45
Remove temporary met towers	Weeks 20–45
Underground trench/conduit work	Weeks 22–36
Hauling and stockpiling of aggregate from local borrow pits	Weeks 24–36
Construct turbine foundations and substation transformer pad	Weeks 24–38
Final grading of roads and turbine areas	Weeks 30–38
Deliver turbines, assemble rotors, erect towers, lift nacelles and rotor assemblies, construct above ground and underground collection systems, permanent met towers	Weeks 32–40
Install transformers and activate turbines	Weeks 32–36
Commission and test wind turbine generators and electrical interconnections	Weeks 40–46
Remove temporary erosion and sedimentation control measures upon final site stabilization and reseedling	Weeks 46–50
Begin commercial operations	Week 50