



**CENTRAL MAINE  
POWER**

An AVANGRID Company

**RELIABILITY UPGRADES**

**Section 151/160 Tower 37 Replacement**

#### **CONTACT**

Project Information Line: **888.267.0831**

Refer to: **Section 151/160 Tower 37 (Fore River, South Portland)**

Website: **[cmpco.com](http://cmpco.com) > Reliable Service**

#### **PROJECT OVERVIEW**

As part of our commitment to provide safe, reliable service to all of our customers, Central Maine Power Company (CMP) is replacing one of its transmission towers in the South Portland service area due to deterioration in its foundations, and age.

Installed by CMP in 1942, Tower 37 is located approximately 100 feet from shore in Fore River, a tidal river with an approximate 10-foot tide, and is one of eight large lattice towers that carry two transmission line sections between Cape Substation and Hinckley Pond Substation, both in South Portland.

#### **PROJECT PURPOSE AND NEED**

In spring 2017, CMP observed cracking in the foundations of Tower 37 of Sections 151/160. Upon additional review and testing by CMP engineers, it was determined that it would be very difficult to repair the original foundations and they would continue to degrade over time. This tower is part of a system that carries two transmission lines – Section 151, a 34.5kV line, and Section 160, a 115kV line – more than 6,000 feet between the two substations.



*Not to scale. The proposed structure replacing the lattice tower will be a monopole located approximately 80 feet from shore.*



Current conditions.

### PROJECT SCOPE

Tower 37 will be replaced with a steel monopole that will stand approximately 127 feet from the top of its concrete foundation to the top of the pole, the same height as the existing structure, and located about 20 feet closer to shore from the existing structure.

The work site will be an approximate 14,500-square-foot area constructed by the use of barges, trestles and timber mats to support the construction footprint and protect the river bed. Safety barriers will be placed around the work area. The existing tower and foundations will be removed to one foot below grade.

### ACCESS

CMP will travel down the corridor when at all possible to remain in our ROW. However, there are instances where we have worked with landowners to access the corridor through private land/driveways. Any access through private property has or will be outlined in a legal document prior to use.

### PROJECT FACTS

Municipality:	South Portland
County:	Cumberland
Permits:	U.S. Army Corps of Engineers; Maine Department of Environmental Protection; Portland Harbor Commission construction permit; South Portland planning site review permit

### PROJECT FEATURES

- A steel monopole tower approximately 127 feet high from its new concrete foundation.
- A new, secure foundation.
- Existing tower and foundations will be removed to one foot below grade.

### BENEFITS TO THE REGION

- Improved reliability to meet customers' electricity needs.

### ESTIMATED TIMETABLE *(subject to change)*

Construction Start:	August 2020
Estimated Completion/ In-Service Date:	December 2020