

North Gorham Hydroelectric Project (FERC No. 2519)

Project Description

Brookfield White Pine Hydro's North Gorham Hydroelectric Project is a run-of-river hydroelectric generating facility located on the Presumpscot River in Gorham, Standish, and Windham, Maine with a gross nameplate generating capacity of 2.25 MW. The North Gorham Project commenced initial commercial operations in 1925.

The Project consists of a non-overflow wall, intake, deep sluice gate section, spillway, sluice gate, and a concrete abutment. The non-overflow masonry wall extends from the west shore about 600 ft 6 in. to the intake structure, and is constructed to elevation 225.5'. It is backed by earth fill. The deep sluice gate section is 47 feet long with the top at elevation 225.5' with four submerged gates, 4 ft wide by 5 ft high. The sills of the gates are at elevation 200.4'. The concrete spillway section extends from the deep sluice gate section in a northeasterly direction for 25ft 6 in. and then an additional 231 ft in an easterly direction. Maximum height of the structure is approximately 24 feet. Crest of the spillway is at elevation 221.8'. A sluice section, measuring 15 ft 3 in. in width and containing a sluice measuring 3 ft 9 in. wide, with sill elevation at 217.9', lies next to the east abutment. The sluice was recently sealed with concrete to elevation 221.8'. The east abutment, consisting of a cutoff wall 38 ft long, extends from the sluice to high ledge, elevation 225.5'.

The North Gorham Project generates clean, renewable electricity while providing recreational opportunities, fish passage measures, consistent water levels that enhance habitats for waterfowl, etc., and substantial support of the local community through stable property tax payments, reliable voltage support of the electrical distribution system, etc.