

RIPOGENUS AND PENOBSCOT MILLS PROJECTS RELICENSING - Request for Operations Model Run

Date of Request:	March 5, 2024
Name of Requestor:	Laura Paye
Affiliation of Requestor:	Hydropower Coordinator, Maine Department of Environmental Protection
Title of Scenario:	Range of Flows Below Stone Dam

Required: Describe the scenario request (i.e., modification to the Baseline Scenario) and the resource(s) of interest and the anticipated benefit to the resource(s) as a result of this requested scenario. Identify metrics for evaluating success/benefit of this scenario and the specific questions you think this scenario will answer.

Below Stone Dam into the West Branch:

-Model steady target flows (24/7) at 3, 50, 100, 170, 200, 300, 500, 1,000, and 2,000 cfs discharged from Stone Dam into the West Branch.

- if the number of requests is infeasible, the Department requests the following be the minimum discharges modelled from Stone Dam: 50, 200, 500, 1,000, and 2,000 cfs

-Leakage (minimum flow under current license) often provides 100 cfs, which is only 53-60% of the wetted width below Stone Dam

-See ISR Table 5.3-3.6 Total wetted area and percentage wetted area in the West Branch below Stone Dam (Class B water)

-Requested scenarios are to address minimum flows that will be required by the Water Quality Certification

Each scenario run will be compared with the "Baseline Scenario". "Baseline" project operating conditions follow the operating requirements of the existing FERC license as described below.

All elevations are expressed in National Geodetic Vertical Datum of 1929 (NGVD 29) unless otherwise specified.