

Bluefish IFR Gate Minimum Flow Standard Operating Procedure

As per a Fisheries and Oceans Canada (DFO) directive the IFR gate at the Bluefish Hydro Facility will maintain a minimum flow of 0.75 m³/s year round. It is acceptable if the fish gate exceeds the minimum height and more water is passed through the gate but there **must always be a minimum of 0.75 m³/s passing through the gate.** To maintain this flow the minimum fish gate height must correspond to the water elevations in Bluefish Lake provided in Table 1 below.

Minimum Fish Gate Height (cm)	Bluefish Lake Water Elevation* (m)
11	>185.59
12	185.02 - 185.59
13	184.58 - 185.02
14	184.23 – 184.58
15	183.95 - 184.23
16	183.72- 183.95
17	183.53- 183.72
18	183.37- 183.53

**Bluefish Lake Elevation is provided by the Water Survey of Canada’s Water Level*

IFR Gate Flow Verification Procedure

Step 1: Plant Operator verifies the IFR gate height by reading the small gauge at the top of the gate structure.

The IFR gate height is entered daily into the IFR Gate Spreadsheet. Any changes to the IFR Gate must also be entered into this spreadsheet.

For Weekly checks for blockages refer to Bluefish IFR Gate Staff Gauge Readings Procedure.



Step 2: Plant Operator verifies the current Bluefish Lake elevation by checking Water Survey of Canada’s water level gauge. The Water Survey of Canada’s water level gauge is located in the small grey building near the head gate.



Step 3: Verify that the Bluefish Lake Elevation falls within the range provided for the gate height; if it does not then adjust the gate height based on the information provided in Table 1. If the fish gate height does not match the minimum height provided for various water level elevations in Table 1 **NTPC is in non-compliance and could be subject to fines from DFO.****

IFR Gate Adjustment Procedure

Step 1: Plant Operator identifies that the fish gate height needs to be adjusted based on changing water levels in Bluefish Lake.

Step 2: Notify the System Control Manager immediately and take steps to either: 1) Adjust the water level; or 2) Adjust the fish gate height based on the new water level.

Step 3: Document changes in the IFR Gate Spreadsheet and notify Environmental Dept. (mmiller@ntpc.com).