

Fish Passage Plan (FPP) Change Form

Change Form # & Title: 24IHR004 – Name change of fish ladder entrances
Date Submitted: 27-DEC-2023
Project: Ice Harbor
Requester Name, Agency: Ken Fone, USACE
Final Action: **FINALIZED 1-FEB-2024**

FPP SECTION: Figure IHR-1. Ice Harbor General Site Plan; 2.4.2. Adult Fish Facilities – Adult Fish Passage Season (March 1 – December 31); 3.3 Maintenance Adult Fish Facilities

JUSTIFICATION FOR CHANGE: The names of the fish ladder entrances are not uniform between the as-built drawings, FPP, and the jargon commonly used by project folks. This has created confusion over the years. This change will help establish uniform names among the various documents that reference the fish ladder entrances.

PROPOSED CHANGE: *Edits to existing FPP text in “track changes”.*

Change "NFE-1 & 2" to "CFE-1, CFE-2". Change "NEW-1, NEW-2" to "NFE-1, NFE-2"

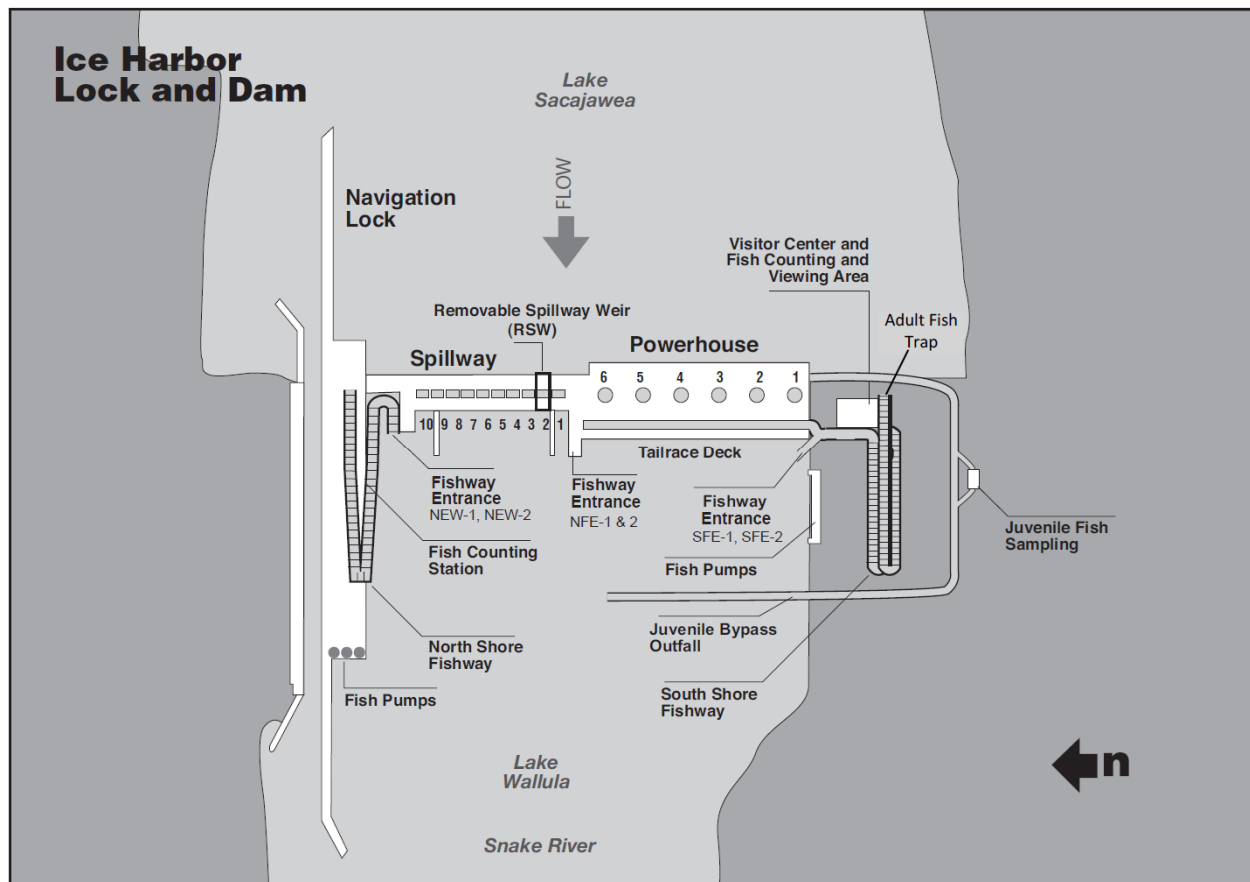


Figure IHR-1. Ice Harbor Lock and Dam General Site Plan

2.4.2.3. North Shore Entrances (North Fish Entrances: NEWNFE-1 and NEWNFE-2).

i. Operate downstream gate closest to shore (NEWNFE-1). NEWNFE-2 will only be operated for adult salmonid passage if NEWNFE-1 gate is not functioning properly to maintain criteria. Repair NEWNFE-1 gate and return to service as soon as possible.

2.4.2.4. North Powerhouse Entrances (Central Fish Entrances: NFECFE-1& and CFE-2).

2.4.2.5. South Shore Entrances (South Fish Entrances: SFE-1 and SFE-2).

3.3.2. **Unscheduled Maintenance.**

3.3.2.4. North Shore Auxiliary Water Supply System. The north shore facilities contain three electric pumps that provide auxiliary water to the diffusers at the bottom of the ladder and at the entrances. During normal operation two pumps are required to provide the necessary auxiliary water.

ii. If two or all three pumps fail, the NEWNFE-1 weir will be maintained at a level of 6' below tailwater until repairs are made.

3.3.2.5. South Shore Auxiliary Water Supply System. The south shore auxiliary water is supplied by 8 electric pumps and 150-180 cfs of excess water from the juvenile fish facilities. Fluctuating water levels can require up to 8 pumps to be operated to provide the auxiliary water and meet criteria.

iii. If the required head differential of 1' to 2' cannot be reached when the floating orifices are closed, SSESFE-1 and NFECFE--2 will be closed equally at 1' intervals until it is reached or until the weirs are 5' below tailwater. Then the remaining floating orifices should be closed in the following order: OG-4 and OG-1.

iv. If there is still not enough auxiliary water to maintain the head differential on the two main entrances, NFECFE--2 will be closed, the transportation channel bulkheaded off at the junction pool, and SSESFE--1 operated as deep as possible to maintain the head differential. If it cannot be maintained at a depth of 6' or greater, the weir will remain at 6' regardless of the head.

COMMENTS: None

RECORD OF FINAL ACTION: Finalized at the FPOM FPP meeting 1-FEB-2024