# Fish Passage Plan (FPP) Change Request Form

**Change Form # & Title**: 17LGS002 – Unit 5 Priority

**Date Submitted**: January 26, 2017

**Project**: LGS

**Requester Name, Agency**: Scott St. John, COE Little Goose

**Final Action:** **APPROVED 1/26/2017**

**FPP Section**: LGS 4.1.3. Turbine Unit Priority Order; Table LGS-5.

**Justification for Change**: As described in MOC [16LGS05](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWW%20Memos%20of%20Coordination%20and%20Notification/LGS_MOC_and_MFR/MOC_16LGS05_Unit-5-Priority-Change.pdf) (emailed to FPOM 3/29/16): Little Goose Unit 5 is restricted to the upper 1% range due to vibration issues at operating points <120 MW (see FOP page 5). Currently, turbine Unit priority at Little Goose is 1, 2, 3, 4, 5, 6 during fish passage season per FPP 4.1.3 and Table LGS-5. This places us in a situation where operating Unit 6 would violate Unit priority, but we are unable to run Unit 5 without causing vibration issues.

We are requesting to change Unit priority at Little Goose, such that Unit 5 is last on and first off, until vibration issues are resolved. Requested priority is 1, 2, 3, 4, 6, 5. This priority order would continue through the 2017 Fish Passage Season or until Unit 5 vibration issues are resolved, whichever occurs first. Unit 5 is scheduled to be OOS starting in September 2017 as contractors will be working to fix it. Contracted work is estimated for completion in February 2018.

**Proposed Change**: (edits to existing FPP text in track changes)

**4.1.** **Turbine Unit Priority Order**

**4.1.3.** If more than one unit is operating, discharge will be maximized (i.e., operated in the upper 1% range) through the southernmost turbine units starting with Unit 1 to the extent possible. A temporary exception is in place for Unit 5 to operate on a last-on/first-off basis until vibration issues are repaired.

Table LGS-5. Turbine Unit Operating Priority for Little Goose Dam.

|  |  |
| --- | --- |
| **Season** | **Unit Priority** |
| March 1 – November 30Fish Passage Season | 1**a**, 2, 3, 4, 6, 5 **b** *Maximize discharge through highest priority units* |
| December 1 – end of February | Any Order |

1. **Unit 1 special operation (section 4.2.4):** When SW is open and total outflow is >38 kcfs, Unit 1 is manually operated in the upper 1% range (~16.0-17.5 kcfs). Assume other units will operate approximately uniformly within their full 1% ranges, except Unit 5 which is temporarily restricted to the upper 1% until vibration issues are resolved (see **Table LGS-7, footnote b**). When other units are operating at <16.0 kcfs, assume Unit 1 is at the lower end of the upper 1% range (~16.0 kcfs). When average unit discharge is >16.0 kcfs, assume all units are operating uniformly.
2. Unit 5 is last in priority order (last-on/first-off) until vibration issues are resolved.

**Comments**:

**Record of Final Action**: Approved at FPOM FPP 1/26/2017