# Fish Passage Plan (FPP) Change Request Form

**Change Form # & Title**: 21AppA002 – DWR Doble Testing Schedule

**Date Submitted**: 5 MAY 2021

**Project**: Dworshak (Appendix A)

**Requester Name, Agency**: Chris Peery, USACE NWW, and Lisa Wright, Corps RCC

**Final Action:**

**FPP Section**:

Appendix A (Special Ops & Studies).

**Justification for Change**:

Adds the 2021 outage schedule for Doble testing/transformer maintenance at Dworshak Dam.

**Proposed Change**: *See following page.*

**Comments**:

**Record of Final Action**:

* 1. Doble Testing[[1]](#footnote-1)

Transformers at the Lower Snake River projects are required to undergo Doble testing1 every three years to ensure they are functioning correctly and identify any issues that need repair. The testing must be conducted during warm, dry conditions (July–September) and requires an outage of the transformer and associated units. Testing is performed during already scheduled outages to the extent possible and timed to avoid or minimize impacts to fish. In years that Doble testing isn’t required, a project may still require an outage during the same timeframe to perform necessary transformer maintenance and repairs that were identified in previous Doble tests and inspections.

At Dworshak Dam, required transformer maintenance and Doble testing occurs every two out of three years starting September 21. For more information on Dworshak maintenance and testing, see **Appendix I**.

The current year’s transformer outage schedule at the lower Snake projects and Dworshak Dam is defined in **Table A-1**. For more information, refer to the project-specific sections below.

Table A-1. Doble Testing Schedule in 2021.a

|  |  |  |  |
| --- | --- | --- | --- |
| **Project** | **Dates** | **Outage**  **(Transformer & Units)** | **Notes b** |
| **IHR** | July  19–23 | Line 3 (Units 5, 6) all hours | Remaining available units (1, 2, 4) operated per FPP priority order. |
| **LMN** | July 29 –  August 13 | T1 (Units 1–4) all hours  T2 (Units 5, 6) daily 0530–1630 | All units OOS daily 0530–1630 with Unit 5 at speed no load (5 kcfs) for station service. Units 5 & 6 RTS nightly 1630–0530 and operated per FPP priority order. |
| **LGS** | August  2–13 | T1 (Units 1–4) all hours  T2 (Units 5, 6) 0500-1700  Aug 2-5 and Aug 9-13 | All units OOS for up to 12 hours (0500-1700) Aug 2-5 and Aug 9-13, with Unit 6 at speed no load (5 kcfs) for station service. During all other hours, Unit 6 available. |
| **LWG** | Aug 9–13;  Aug 15–17 | T1 (Units 1-4) daily 0600-1900 Aug 9-13 and Aug 16-17  T2 (Units 5-6) all hours | All units OOS daily for up to 13 hours (0600-1900) Aug 9–13 and Aug 16–17, with Unit 5 at speed no load (5 kcfs) for station service. During all other hours, T1 (Units 1-4) available. |
| **DWR** |  |  | No Doble testing is anticipated in 2021 |

1. “Doble test” is a common term referring to a power factor test of transformers to measure performance of electrical insulation. Doble is the name of a manufacturer of the test equipment. [↑](#footnote-ref-1)