

CENWW-OD-WL

Date of report March 6, 2014

Update: March 10, 2014

MEMORANDUM FOR THE RECORD 14 LMN 01 – Fish ladder PLC failure

FPOM meeting - March 13, 2014

SUBJECT: The PLC that drives the automated operating system for the adult fish ladders (weirs) has failed and the programming is lost.

Will need to operate in manual mode until PLC replacement and programming can be completed. No outage required.

Impact on facility operation: The fishways can be operated in manual control with due vigilance of the operators without adversely effecting performance.

From FPP section 3.2.2.3. **“Fishway Entrances.** The fishway entrances consist of main entrance weirs with hoists and automatic controls. If any of the automatic controls malfunction, the weirs can be operated manually by project personnel and kept within criteria. If there is a further failure which prevents an entrance from being operated manually, the weirs can usually be left in a lowered position while repairs are being conducted or the entrance may be closed and the water redistributed to other entrances while repairs are made.”

From FPP section 2.3.2.2.k. Facility inspections. K1: (Rather than the normal operation of only reviewing the computer for the night shift inspection). Powerhouse operators will physically inspect the fish ladders on each shift.

Length of time for action: For new PLCs to be procured and programmed we are estimating two months.

Expected impacts on fish passage:
None.

Sincerely,
William Spurgeon
Lower Monumental Project Fisheries

Comments:

From: Trevor Conder - NOAA Federal [mailto:trevor.conder@noaa.gov]

Sent: Thursday, March 06, 2014 4:08 PM

To: Moody, Gregory P NWW

Cc: Bill Hevlin - NOAA Federal; Ritchie Graves - NOAA Federal

Subject: [EXTERNAL] Re: (UNCLASSIFIED)

Greg,

I spoke briefly with Bill Spurgeon about this and he assured me that it shouldn't be a problem for the operators in the control room to maintain criteria with manual operation. He mentioned some of them have been around since before the PLC, and still know how to operate the ladder manually. As long as all the operators are clear on how to operate the ladder manually, I don't foresee this as an issue while were waiting for the PLC replacement. Thanks for the notification.

-Trevor