

FPP Change Forms



Change Request Number: 10APPB 002 Temperature Gradient Thresholds

Deleted: McNary

Date: October 30, 2009

Proposed by: Tom Lorz (CRITFC) sent to Greg Moody (USACE)

Proposed Change: Add a section 4. Operating Criteria-(G)-6(new) under Appendix B Corps of Engineers Juvenile Fish Transportations Plan or it could be added to 3. Program Duration (D) of Appendix B.

Add language... "If a temperature gradient between the forebay and the gatewells or the gatewells and the collection channel is observed in real time or predicted from temperature modeling at McNary, exceeds 6 degree Fahrenheit, or collection mortality increases to 6 percent of daily collection for any 3 days in a rolling 5 day period, the project will immediately alter turbine operations to reduce mortality and temperature where possible.

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If turbine operations are already optimized for temperature and collection mortality increases to 6 percent of daily collection for any 3 days in a rolling 5 day period, or if daily collection mortality exceeds 10,000 fish, then additional spill may be provided so long as the spill levels do not exceed the gas cap. Transportation will be shifted to everyday, if possible, to reduce holding of fish in raceways. If everyday transport is not possible, redirect fish to the outfall instead of the raceways. Emergency operations will be implemented by RCC and coordinated with an emergency conference call with TMT.

TO: Reason for Change: During the 2009 fish migration passage season the 6 percent mortality criteria mentioned above in section 3 – d of Appendix B of the FPP was triggered in August. It also corresponded to temperature differences in the facility that exceeded 6 degrees F and got as high as 11 degrees F. Spill was increased for several days to help reduce the number of fish using the bypass facility during these extreme temperature gradients as well as to try to reduce flow for areas of warm water to the powerhouse. Mortality did drop after the operations were started. It would be prudent to have language in the FPP to deal with such situations in advance then to have to wait for coordination and the discussion at a meeting between FPOM/TMT to begin altering operations that will likely reduce facility mortality.

Comments from others:

FPOM approved this change form at the 1/13/10 meeting.

