



March 18, 2019

**To: Mr. Brian Bissell and Ms. Erin Kovalchuk of USACE**

**From: Janine Bryan, Whooshh Innovations, Inc**

**Cc: John Whitaker, CRITFC**

**Re: Whooshh Scanner Installation at Bonneville AFF and Permits**

The plans for the Whooshh scanner installation at Bonneville Adult Fish Facility (AFF) have been vetted at FPOM and through numerous agencies including NOAA/NMFS and divisions of the USACE. The design, from the perspective of the path the fish follow, was created such that no substantive changes were created relative to that currently existing in the AFF. The fish volitionally pass over a false weir and begin a continuous slide down through a flume consisting of a chute, a transition to a large pipe and then through the scanner chute to return to the waterway. The fish are not handled, held or path impeded in anyway. The scanner chute replaces a portion of the pipe, sustaining the current flume path.

Given that the AFF has been in operation with the necessary permitting and approvals to allow volitional entry and diversion of fish (including ESA-listed species) through the current AFF flume system, the substitution of the Whooshh Scanner installation for a portion of the flume pipe represents no change in the fish path. The fish will slide through the Whooshh scanning system in a like manner to the current flume, initiated by their own volition and unimpeded in their slide path to return to the waterway. The Whooshh scanner installation warrants no change in the current AFF flume status and therefore does not require an ESA or state permit for any fish, including ESA listed species, to slide through the Whooshh scanner installation at the Bonneville AFF.

This memo has been drafted for your files as a requirement of the approval for access to Bonneville Dam's Adult Fish Facility (AFF) by the Operations Project Manager, Michael D. Adams.