

**OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE**

COORDINATION TITLE- 16JDA04 BRZ Avian Lines

COORDINATION DATE- 15 August 2016

PROJECT- JD Tailrace BRZ Avian Lines' reinstallation and improvements in 2016/2017.

RESPONSE DATE- 30 September 2016

Description of the problem

John Day Avian Array Improvements will be divided into two phases and two separate contracts. Phase I will address immediate concerns for the 2017 juvenile salmonid passage season. Phase II will address overall improvement of the avian array for the 2018 fish passage season.

Phase I will replace 15 lines extending from the Oregon Shore Towers to the Spillway, Navigation Lock and Peninsula (See photo below for visual purposes). Lines 10, 11 12 will be replaced for the Peninsula. Lines 61, 63, 68, 70, 73, 77 will be replaced for the Spillway. Lines 39, 45, 54, 56, 59, 60 will be replaced for the Navigation Lock. The lines will be restrung with 3/16" diameter Vectran Rope (a liquid crystal polymer with negligible creep). The replacement lines will be installed using the existing dampening connection along the Oregon Shore tower and the existing winches along the Navigation Lock. For all restrung lines, cable slings will be added to the Oregon Shore Tower, S2 connection point to minimize abrasion. A cable tension meter will be provided such that operations will have quantitative means to tension the rope. Work is expected to occur along the Spillway and Navigation Lock, as well as the Oregon shore towers, S1, S2 and S3, S4 (including carrier lines).

The remainder of fallen lines will be replaced for Phase II. Phase II will include minor design modifications and a completed O&M Manual. Sheaves will be added to spillway tower endpoints to allow ropes to terminate where operations personnel have simple access. Construction for Phase II is anticipated to begin December, 2017.

Comments from agencies

Final results

Please email or call with questions or concerns.

Thank you,

Erin

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