

MEMORANDUM FOR THE RECORD

SUBJECT: 16JDA06 MFR Submersible Traveling Screens (STS) Overhaul

Status of JD STSs: All 49 STSs are overdue for a major overhaul of their frames, unfolding components and other equipment since 2004. Their frames need to be sandblasted and repainted; the unfolding components replaced with new parts to prevent corrosion and guarantee a long term reliability. Since this is a major multi-million dollar action, Portland District's assistance with the Letter Report/DDR/Plans & Specs is required for its execution and a Charter and PDT needs to be created.

Planning for 49 JD STS' overhaul: Three brand new STSs will need to be funded/ procured first to act as revolving interim replacements for the three STSs that are being refurbished at any given time. Otherwise, JD Project would have an insufficient number of STSs for the regular fish passage seasons' operations.

Furthermore, the necessary STSs' overhaul is DIFFERENT from the annual, on-site maintenance of the STS mesh and its moving components. The annual STS maintenance is covered under the JD O&M funding and is done by the local JD Maintenance personnel on a regular, multi-year schedule. Approximately 8 screens out of 49 total, have their mesh and moving parts replaced per year so each screen is completely rebuilt every 6 years. All 49 STSs are moved into to a maintenance pit for a thorough mechanical/structural inspection every year. In spite of many budgetary and spare parts procurement challenges, the annual STS maintenance has been performed well and their moving parts have been working properly.

Despite the annual maintenance performed, the reality is that all 49 screens require a major refurbishment effort to maintain some semblance of reliability into the future. Failing that, it is probable that screens will fail structurally and result in loss of power generation thereby negatively impacting both the hydro generation and fish passage efforts of the Corps and BPA.

Information they collected is provided below:

- A. Species – N/A
- B. Origin – N/A
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – N/A

Sincerely,
JD Fisheries