MEMORANDUM

TO: Fish Passage Center Oversight Board
    Randy Fisher, PSMFC

FROM: Michele DeHart

DATE: November 9, 2015

RE: Quarterly Fish Passage Center Report for July through September 2015

Following is the Quarterly Report for the Fish Passage Center (FPC) for the third quarter of 2015. This report follows the format and content agreed upon by the FPC Oversight Board.

PISCES System Work Elements

Produce Environmental Compliance Documentation

In the third quarter of 2015, the FPC staff closely monitored sampling and marking in the Comparative Survival Study (CSS) and Smolt Monitoring Program (SMP) projects to assure that implementation of these projects remained consistent with conditions established by NOAA Fisheries ESA handling and sampling permits. This required particular attention due to the actions taken by the Walla Walla District Corps of Engineers to contract some project monitoring to a private consulting firm, which did not have ESA permits for sampling. The agreement reached was that the staff of the private consulting firm would work under the supervision of the SMP project leader at the site. In addition the FPC staff monitored sampling at the Grand Ronde trap, Lewiston trap and Whitebird trap to evaluate the success of modified schedules and sampling procedures to reduce fish handling at these sites.

Provide Technical Review

FPC staff facilitated weekly FPAC conference calls throughout the quarter and attended monthly meetings of FPAC through the quarter. FPC provided technical support to facilitate FPAC discussions as requested by the FPAC members, and provided technical assistance to FPAC for monitoring and review research studies and reviews of dam passage studies. In addition FPC
provided technical support to the USACE Fish Passage Operation and Maintenance Committee, attending meetings through the quarter. FPC staff provided technical support to the fishery agencies and tribes’ representatives on the SRWG by providing technical review of proposals and reports as requested.

**Analyze/Interpret Data**

During the second quarter of 2015, the FPC staff completed the Final FPC Annual Report for 2014 and posted it on the FPC web site. In addition data summaries for the CSS Annual Report were prepared by FPC staff and distributed to the CSS Oversight Committee for analyses and preparation of individual report chapters. The CSS Draft Annual Report for 2015 was distributed and posted on the FPC Web site for regional review on August 31. Review comments were due to the FPC on October 15.

During the third quarter of 2015, the FPC responded to 24 requests for data compilations and summaries and, of those requests, 12 required analyses and response. These were completed in memorandum form and posted on the FPC web site. Those responses are listed below:

1. Comments on Survival and passage of yearling and subyearling Chinook salmon and juvenile steelhead at McNary Dam, 2014 - September 17, 2015.
2. SMP Sampling Protocol - September 17, 2015.
3. SRWG evaluation of performance testing at Bonneville Dam - September 11, 2015.
4. Information regarding 2015 conditions at Bonneville Dam - August 26, 2015.

**Develop RME Methods and Designs**

In the third quarter of 2015, FPC staff assembled and presented fish condition monitoring objectives, management applications and handling data to agencies and tribes’ management staff. The objective of these reviews is to review and modify the SMP for future years to develop consistent efficient fish condition monitoring to include in future SMP programs that meets management needs of the fishery managers. The FPC completed a draft SMP for 2016 for agencies management-level for approval in August. In addition FPC staff continued working with the U.S. v. Oregon small work group addressing adult upstream migration success.
Data Management

Web site, Daily Reports, Database and Data Updates

- Regular Web site maintenance and updates.
- Updated hatchery web queries to point to our updated hatchery database.
  - Developed dynamic tables (views) to deliver data from new database to the updated queries.
- Updated the CSS maps for 2014 CSS annual report, using new postgresql spatial database and QGIS.
- Updated hatchery maps for the 2015 FPC annual report using new postgresql spatial database and QGIS.
- Development of a draft monitoring map for steelhead.
  - Completed scripting to insert FPC sites into the database and connect them with the steelhead esu/mpgs/esus for steelhead map. FPC sites include:
    - Hatcheries
    - Release sites
    - CSS sites
    - and some PIT-tag sites
  - Updated natural spawner escapement data set and visualization for Middle Fork Salmon MPG.
  - Created two new natural spawner escapement database tables as well as Web visualization for all populations in the Upper Salmon and the South Fork Salmon Mainstem MPGs.
- Created a new front page (homepage) for FPC.org using the new Web site design.

Software Development

- New C# version of Fish Analyst has been developed that produces Excel files for annual and CSS reports (Development tool: Visual studio 2013 and to run on Windows 7).
- New C# version of Hatchery Data Entry application has been developed (Development tool: Visual studio 2013 and to run on Windows 7).
- Multiple SQL scripts to convert old Hatchery data into to new system has been developed.

Hardware Upgrades

- Built new Windows 2012 machine to host SQL server 2012 with Always On availability feature (mirroring of our main database server).
Fish Analyst application produces input for annual and CSS reports
New Hatchery Data Entry application
Updated hatchery maps for the 2015 FPC annual report

Updated CSS 2014 annual report maps
Updated CSS 2014 annual report maps (continued)

Estimated natural spawner escapement by MPGs on F.I.S.H.
Draft New FPC Homepage

Scripts to update FPC sites and intersect with steelhead esu/mpgs/esus
FPC.ORG WEB SITE STATISTICS

The FPC Web site is the primary vehicle for data distribution. During the third quarter of 2015, FPC.org had 8,062,998 hits. There were a total of 1,454,219 pages viewed and 803,971 visits to the Web site. The average hits per day in the third quarter were 87,586. The average number of page views was 15,785 with an average visiting time of 6:10 minutes. About 93.6% of the visits were from the United States. Of the U.S. visits, 28.5% were from Washington, 20.3% were from Oregon, 10.6% were from California, 5.2% were from Idaho, and 35.4% were from other states. Of the 50 top visitor domains, about 78% were from individuals/networks, 17% of the visits were from commercial/organizations and 5% were from government and education.

The most active day of the week was Wednesday, while the least active day of the week was Saturday. The busiest hour of the day was around 3:00 PM. September was the busiest month with 38.7% of the visits, followed by August with 32.5%, and July with 28.8%. The top platform (operating system) used to hit the site during the third quarter of 2015 was Windows 7 with about 31.9% of the hits, followed by Android (13.8%), Windows NT (8.8%), Mac OS (6%), Windows XP (3.3%), Windows Vista (2.6%), Linux (.5%) and other operating systems (33.1%). The top browser used to hit the site was Safari (32%) followed by Internet Explorer (25.8%), Chrome (24.2%), Firefox (6.6%) and other various browsers (11.4%). A total of 24% of the hits during the third quarter were from mobile devices. Of the 24% mobile hits, 75.6% were from iPhones, 24.2% were from iPads, 0.1% were from various Android devices, and 0.1% were from iPods.

The top requested page was the Daily Adult Salmon Dam Count report. Of the top 50 requested pages and queries, 77.7% were about adult salmon; 8.0% were about the FPC Web site and FPC documents (includes FPC homepage, contact, site map, FAQ, FPAC links, etc.); 14.1% were about river queries (flow/spill report, temperature graphs, spill update, etc.); and 0.2% were about smolt and survival data. We track the number of page views on the dynamic Web queries which are a measure of the data requests via the Web site (i.e., .asp, .aspx, .php, etc.). During the third quarter of 2015, there were 1,311,953 total data requests.
Manage and Administer Projects

During the third quarter of 2015 FPC staff tracked expenditures for CSS, FPC and SMP projects to date relative to planned budgets. Final project proposals including budget proposals for the Fish Passage Center Project and the Comparative Survival Study projects for 2016 were completed and submitted for review during this quarter. Development of a draft project proposal for the SMP project was completed during this quarter. Statements of work and budgets for the FPC and CSS projects submittals were submitted to the Bonneville Power Administration for the 2016 project year during this quarter.

Produce Status Reports
All Pisces status report requirements were met for the SMP, CSS and FPC projects for this quarter. Files and reports were uploaded into the BPA’s Pisces system where required.
Produce Annual Progress Reports
All Pisces progress reports were completed successfully for the CSS, the SMP, and the FPC projects.

Regional Coordination, Fishway Inspections/FPAC

Monthly fishway inspections were completed at all thirteen Columbia and Snake River projects with adult fish ladders during July, August and September. All inspection reports are summarized in tables and monthly summaries that outline all issues which were reported during each month. These reports are available to the region on the FPC Web site.