

APPENDIX E1

SSWD’S OPERATIONS MODEL, HYDROLOGY DATA, AND STUDY DATA

Appendix E1 includes SSWD’s Water Balance/Operations Model, Hydrology Data, and associated data for 13 of SSWD’s studies. Two studies, *Cultural Resources Study* and *Tribal Interest Study* have a public report and a Privileged report that was filed separately with FERC on June 7, 2019.¹ Table E1-1 lists the contents of this appendix, including file type and total file size.

Table E1-1. Contents of Appendix E1.

Name	File Type(s) on Disc	Total File Size
OPERATIONS MODEL		
2019-06-14 Camp Far West Operations Model_V4	1 Microsoft Excel file	49.3 MB on DVD
Ops-Model Documentation Validation_Report	1 Adobe pdf file	5.6 MB on DVD
HYDROLOGY DATA		
DSS Data Files	6 DSS files	9.4 MB on DVD
Exceedance Plots	2 Adobe pdf files	0.4 MB on DVD
Haze Charts	1 Adobe pdf file	0.8 MB on DVD
Monthly Summaries	1 Adobe pdf file	0.2 MB on DVD
Power Generation	1 Microsoft Excel file	0.2 MB on DVD
Stage-Storage Curves	2 Microsoft Excel files	0.1 MB on DVD
STUDY 2.1 WATER TEMPERATURE MONITORING		
2_1 Reservoir Dissolved Oxygen Profile Data	1 Microsoft Excel File	0.5 MB on DVD
2_1 Water Temperature Monitoring _ Reservoir Profile Data PH and Conductivity	1 Microsoft Excel File	0.9 MB on DVD
2_1 Water Temperature Monitoring _ Reservoir Profile Data	1 Microsoft Excel File	0.5 MB on DVD
2_1_Stream Temp Data	1 DSS file	7.6 MB on DVD
STUDY 2.2 WATER TEMPERATURE MODELING		
Tech Memo - Model Development	1 Adobe PDF File	4.2 MB on DVD
Appendix A - Bear River Hydrology Methods Memo	1 Adobe PDF File	0.7 MB on DVD
Appendix B - Temp Model Calibration and Validation Files	2 folders with executable data	220 MB on DVD
Appendix C - Temp Model GUI Configured for the Base Case	1 folder with executable data	1.4 GB on DVD
Temp Model Output	3 DSS files	50.3 MB on DVD
STUDY 2.3 WATER QUALITY		
2_3 _Bear River Dissolved Oxygen Data	1 Microsoft Excel File	1.0 MB on DVD
2_3_WQ lab results_August 2017	1 Adobe PDF File	126.6 MB on DVD
2_3_WQ lab results_June 2017	1 Adobe PDF File	210.4 MB on DVD

¹ See FERC’s ELibrary Accession No. 201906075078 and Accession No. 201906075079.

Table E1-1. (continued)

Name	File Type(s) on Disc	Total File Size
STUDY 2.3 WATER QUALITY (CONT'D)		
2_3_WQ lab results_ November 2017	1 Adobe PDF File	169.2 MB on DVD
STUDY 3.1 SALMONID REDDS		
3_1_Redd Survey Data Sheets	1 Adobe PDF File	7.9 MB on DVD
3_1_Gravel Mapping Data Sheets	1 Adobe PDF File	2.2 MB on DVD
3_1_Velocity Transect Data Sheets	1 Adobe PDF File	1.0 MB on DVD
3_1_Gravel Permeability Data Sheets	1 Adobe PDF File	0.5 MB on DVD
3_1_Gravel Mapping Database	1 Microsoft Excel File	0.7 MB on DVD
3_1_Gravel Permeability_2017	1 Microsoft Excel File	0.2 MB on DVD
3_1_Redd data_2018	1 Microsoft Excel File	0.4 MB on DVD
3_1_Redd Location Map_2016_2018	1 Adobe PDF File	9.4 MB on DVD
3_1_Spawning Gravel Protocol	1 Microsoft Word Document	0.3 MB on DVD
STUDY 3.2 STREAM FISH		
3_2_Boat electrofishing database	1 Microsoft Excel File	0.1 MB on DVD
3_2_eDNA sampling results	1 Microsoft Excel File	0.1 MB on DVD
3_2_Population photos	1 Microsoft Word File	2.4 MB on DVD
3_2_Population sampling database_Oct 2017	1 Microsoft Excel File	0.1 MB on DVD
3_2_Population sampling database_Apr 2018	1 Microsoft Excel File	0.1 MB on DVD
3_2_Population sampling database_May 2018	1 Microsoft Excel File	0.1 MB on DVD
3_2_Population sampling database_Jun 2018	1 Microsoft Excel File	0.1 MB on DVD
STUDY 3.3 INSTREAM FLOW		
3_3_HDR Downstream Modeling Site	7 Microsoft Excel Files, 21 CDG files, 1 Bed File, 1 Tagged Image File, 1 TIF World File, 4 Text Documents	176 MB on DVD
3_3_HDR Upstream Modeling Site	7 Microsoft Excel Files, 21 CDG files, 1 Bed File, 1 Tagged Image File, 1 TIF World File, 4 Text Documents	198 MB on DVD
3_3_HSC Preference Files	7 Text Documents	0.1 MB on DVD
3_3_USFWS Modeling Site	1 Microsoft Excel File, 19 CDG Files, 10 Channel Index Files, 1 Bed File, 7 Text Documents	119 MB on DVD
3_3_Lower Bear River Instream Flow Study Photo Log	1 Word Document	24 MB on DVD
STUDY 3.4 BENTHIC MACROINVERTEBRATES		
3_4_BMI Calculations and Scores	1 Microsoft Excel File	0.04 MB on DVD
3_4_BMI CEDEN data	1 Microsoft Excel File	0.09 MB on DVD
3_4_BMI_Water Quality and Physical Habitat Data	1 Microsoft Excel File	0.1 MB on DVD
STUDY 4.1 SPECIAL STATUS PLANTS AND NNIP		
4_1_Camp Far West_Complete Flora	1 Microsoft Excel File	0.03 MB on DVD
4_1_Camp Far West_NNIP Summary Table	1 Microsoft Excel File	0.06 MB on DVD

Table E1-1. (continued)

Name	File Type(s) on Disc	Total File Size
STUDY 4.1 SPECIAL STATUS PLANTS AND NNIP (CONT'D)		
4_1_NNIP Occurrences_2017	1 Adobe PDF File	17.7 MB on DVD
STUDY 4.2 SPECIAL STATUS RAPTORS		
4_2_Bald Eagle Data Sheets	1 Adobe PDF File	0.5 MB on DVD
4_2_Golden Eagle Data Sheets	1 Adobe PDF File	0.2 MB on DVD
4_2_Inc Observation Data Sheets	1 Adobe PDF File	1.3 MB on DVD
4_2_Nest Observation Data Sheets	1 Adobe PDF File	1.5 MB on DVD
STUDY 4.3 SPECIAL STATUS BATS		
4_3_Acoustic Monitoring_05112017	1 Adobe PDF File	0.03 MB on DVD
4_3_Acoustic Monitoring_05122017	1 Adobe PDF File	0.03 MB on DVD
4_3_Bat Emergency Survey_05112017	1 Adobe PDF File	0.03 MB on DVD
4_3_Bat Emergency Survey_05122017	1 Adobe PDF File	0.03 MB on DVD
4_3_Bat Monitoring Site Map	1 Adobe PDF File	0.1 MB on DVD
STUDY 5.1 ESA LISTED PLANTS		
No ESA listed plants were found during the survey, see Study 4.1 for Plant information.		
STUDY 5.2 ESA LISTED WILDLIFE VELB		
5_2_CFW_VELB Datasheet_May 2017	1 Adobe PDF File	0.1 MB on DVD
5_2_VELB Location Map	1 Adobe PDF File	1.3 MB on DVD
STUDY 5.3 ESA LISTED WILDLIFE CRLF		
5_3_CRLF and Bullfrog data	1 Microsoft Excel File	0.02 MB on DVD
STUDY 6.1 RECREATION		
6_1_UseObservationLog_Campgrounds	1 Adobe PDF File	0.6 MB on DVD
6_1_UserObservationLog_DailyForms	1 Adobe PDF File	6.6 MB on DVD
6_1_UseObservationLog_Vehicles_People_Summary	1 Microsoft Excel File	0.02 MB on DVD
6_1_VisitorSurveyDatabase	1 Microsoft Excel File	0.7 MB on DVD
STUDY 10.1 CULTURAL		
Cultural Resources Data has been filed with FERC as Privileged on June 7, 2019 (FERC Accession No. 20190607-5079)		
STUDY 10.1 TRIBAL		
Tribal Resources Data has been filed with FERC as Privileged on June 7, 2019 (FERC Accession No. 20190607-5079)		

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Appendix E1

Attachments

Due to the size and/or format of the material in this appendix, SSWD has filed with FERC these materials on digital versatile disc (DVD) as part of this Application for New License.

Copies of the material in this appendix on DVD may be obtained upon request by contacting:

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