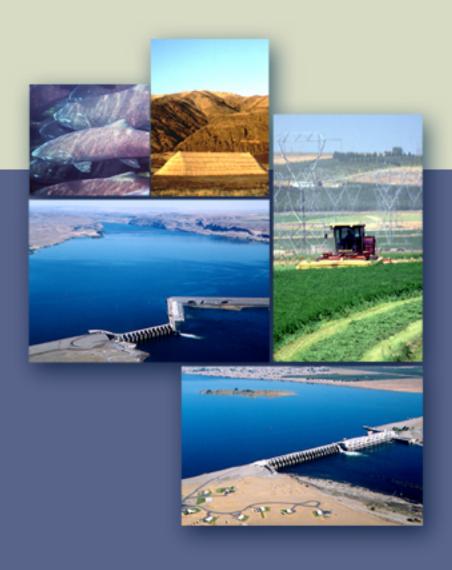


## FINAL LICENSE APPLICATION

Priest Rapids
Hydroelectric Project
FERC No. 2114

October 2003



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Public Utility District No. 2 of Grant County, Washington

## Priest Rapids Hydroelectric Project No. 2114 FINAL APPLICATION FOR NEW LICENSE

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## **DISK 2: GCPUD\_FLA2**

#### **Technical Appendices E3 and E4**

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- E-3.A An Evaluation of Water Quality and Limnology for the Priest Rapids Project Area, Completion Report, August 2000, Normandeau, Washington State University, University of Idaho. (TA1)
- E-3.B An Assessment of Selected Water Quality Parameters for the Priest Rapids/Wanapum Dam Hydroelectric Project, Final Report, February 2003, Juul, S.T.J. (TA2)
- E-3.C Effects of Wanapum and Priest Rapids Impoundments on Columbia River Temperature, December 2002, Perkins, W.A., M.C. Richmond, C.L. Rakowski, A. Coleman, and G.R. Guensch. (TA2)
- E-3.D Fish Ladder Temperature Analysis for Priest Rapids Dam and Wanapum Dam, June 2003, Normandeau. (TA2)
- E-3.E Total Dissolved Gas Exchange at Priest Rapids Dam, July 21 August 4, 2002, August 14, 2003, US Army Corps of Engineers. (TA2)
- E-3.F Fixed Site Water Quality Monitors, Maintenance and Calibration Procedures, and Quality Assurance Methods, August 2003, David M. Duvall and Thomas J. Dresser Jr. (TA2)

#### E4 Fish Resources

- E-4.A A Summary of Anadromous Fish Studies and Protection, Mitigation, and Enhancement Actions Implemented by Grant County PUD, June 1999, Lukas, J.A. (TA3)
- E-4.B Chinook Salmon in the Priest Rapids Project, January 2003, McMichael, G.A. and seventeen co-authors. (TA3)
- E-4.C Assessment of Adult Lamprey Migratory Behavior at Wanapum and Priest Rapids Dams Using Radio-telemetry Techniques, 2001-2002, January 31, 2003, Nass, B., C. Sliwinski, K.K. English, L. Porto and L. Hildebrand. (TA3)
- E-4.Ci Addendum to the Assessment of Adult Lamprey Migratory Behavior at Wanapum and Priest Rapids Dams Using Radio-telemetry Techniques, 2001-2002, July 8, 2003, Nass, B., C. Sliwinski, K.K. English, L. Porto and L. Hildebrand. (TA3)

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- E-4.D Evaluation of Fish Species in the Priest Rapids Project Area, Mid-Columbia River, Washington, USA, Final Completion Report, August 2001, Pfeifer, B. and five co-authors. (TA4)
- E-4.E Movement of Radio-Tagged Bull Trout Within Priest Rapids and Wanapum Reservoirs 2001-2002, July 16, 2003, BioAnalysts, Inc. (TA4)
- E-4.F White Sturgeon Investigations in Priest Rapids and Wanapum Reservoirs on the Middle Columbia River, Washington, USA, 2003 Final Report, January 2003, Porto, L. and ten co-authors. (TA5)
- E-4.G An Assessment of Smolt Survival at Wanapum and Priest Rapids Projects Using PIT-Tagged Yearling Chinook Salmon Smolts in 2001, October 2001, Skalski, J. R., M. R. Dare, C. S. McCutcheon, and R. J. Richmond. (TA6)
- E-4.H Draft A Survival of Chinook Smolts During Various Spill Configurations at Wanapum and Priest Rapids Dams, 2002, 11 February 2003, Robichaud, D. K and six co-authors. (TA6)
- E-4.I Biological Monitoring of Gas Bubble Trauma Occurrence at Priest Rapids Dam, 1996-2002, December 2002, Duvall, D., M. Clement and T. Dresser. (TA6)
- E-4.J Assessment of Adult Steelhead Migration through the Mid-Columbia River using Radio-Telemetry Techniques, 2001-2002, June 30, 2003, English Karl K., Cezary Sliwinski, Bryan Naas, and John R. Stevenson. (TA7)
- E-4.K Fish Passage Alternatives Study for the Priest Rapids Project, Final Report, January 31, 2003, Voskuilen, M. and six co-authors. (TA7)
- E-4.L Genetic Analysis of Redband/Rainbow Trout from Tributaries within the Priest Rapids Project Area Mid-Columbia River, Washington, USA, Draft Report, June 2003, Dresser Jr., T. J., and three co-authors. (TA8)
- E-4.M Historical Evaluation of PIT-Tag and Radio-Tag Survival Estimates at Wanapum and Priest Rapids Projects, 1998-2003, August 21, 2003, John R. Skalski. (TA8)
- E-4.N Subyearling Chinook Salmon Stranding in the Hanford Reach of the Columbia River, August 2003, Batelle. (TA8)
- E-4.O White Sturgeon (Acipenser transmontanus) Conservation Aquaculture Plan for Priest Rapids and Wanapum Reservoirs Mid-Columbia River, June 2003, Goldier Associates. (TA8)

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- E-5.A Habitat Based Terrestrial Inventory, Priest Rapids Project, Final Report, April 2000, DE&S. (TA9)
- E-5.B Transmission Line Studies Priest Rapids Project, FERC No. 2114, Final Report, April 2001, DE&S. (TA9)
- E-5.C Terrestrial Habitat Assessment, Priest Rapids Project, FERC No. 2114, Final Report, January 2003, FDE&S. (TA10 and TA11)
- E-5.D Transmission Line Avian Studies Priest Rapids Project FERC No. 2114, Final Report, February 2003, FDE&S. (TA12)
- E-5.E Research Summary and Threats Assessment for Artemisia campestris var. wormskioldii (Bess. ex Hook.) Cronq. in the Priest Rapids Project Area, Final Report, February 2003, FDE&S. (TA12)

#### **E6 Historic and Archaeological Resources**

E-6.A A Cultural Resources Overview for the Priest Rapids Hydroelectric Generation Project (FERC Project No. 2114), Grant, Chelan, Douglas, Kittitas, and Yakima Counties, Washington, May 2001, Bruce, R., J. Creighton, S. Emerson, and V. Morgan. (TA13)

#### **E7 Recreational Resources**

- E-7.A Recreation Site and Facility Inventory, Priest Rapids Hydroelectric Project, Final, May 2000, EDAW, Inc. (TA14)
- E-7.B Draft Recreation Resource Management Plan, Priest Rapids Hydroelectric Project FERC Project No. 2114, August 2003, EDAW, Inc. (TA14)
- E-7.C Recreation Use Assessment, Priest Rapids Hydroelectric Project, Final, May 2000, EDAW, Inc. (TA15)
- E-7.D Recreation Capacity Analysis, Priest Rapids Hydroelectric Project, Final, May 2000, EDAW, Inc. (TA15)

- E-7.E Recreation Opportunities and Constraints Analysis, Priest Rapids Hydroelectric Project, FERC Project Number 2114, June 2001, EDAW, Inc. (TA15)
- E-7.F Regional Recreation Analysis, Priest Rapids Hydroelectric Project, FERC Project Number 2114, January 4, 2000, EDAW, Inc. (TA15)
- E-7.G Area Resident Survey Results, Priest Rapids Hydroelectric Project, FERC No.2114, November, 2000, EDAW, Inc. (TA16)
- E-7.H Recreation Monitoring Framework, Priest Rapids Hydroelectric Project, FERC Project NO. 2114, August 13, 2001, EDAW, Inc. (TA16)
- E-7.I Recreation Needs Analysis, Priest Rapids Hydroelectric Project, FERC Project NO. 2114, November 4, 2001, EDAW, Inc. (TA16)
- E-7.J Draft Preferred Alternative to be Integrated into the RRMP, March 19, 2001, EDAW, Inc. (TA16)

#### **E8** Land Management and Aesthetics

E-8.A Report on Aesthetic/Visual Resources, August 2003, EDAW, Inc. (TA17)

#### E9 Geological and Soil Resources

E-9.A Geological and Soil Resources Report, Priest Rapids Hydroelectric Project, March 2003, FDE&S. (TA18)

## DISK: GCPUD FLA41

## **Confidential Critical Energy Infrastructure Information (CEII) Exhibits and Reports FERC Only**

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- F.E Stability Analysis of the Priest Rapids Development Concrete Structures, Priest Rapids Project, FERC Part 12 Inspection Report, February 2002, CEII. (CE2)

## **DISK: GCPUD FLA5**

**Confidential Report** 

E-6.B Historic Properties Inventory: Priest Rapids Hydroelectric Project (FERC

**Technical Appendix - E6 Historic and Archaeological Resources** 

Project No. 2114), Grant, Chelan, Douglas, Kittitas, Benton, and Yakima Counties, Washington, Final Report, September 5, 2003, CONFIDENTIAL, Earth Imaging Associates, Inc. (CO1)

<sup>&</sup>lt;sup>1</sup> The two disks GCPUD FLA4 and GCPUD FLA5 are non public and are not included in the public set of the three disks GCPUD FLA1, GCPUD FLA2, and GCPUD FLA3.

# Priest Rapids Hydroelectric Project No. 2114 FINAL APPLICATION FOR NEW LICENSE HELP

#### **Organization of Documents**

Insert the appropriate disk to view the following:

**DISK 1: GCPUD FLA1** 

**Application Exhibits A-H Consultation Record** 

**DISK 2: GCPUD FLA2** 

**Technical Appendices E3 and E4** 

**DISK 3: GCPUD FLA3** 

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DISK 4: GCPUD FLA4 (FERC Only)

**Confidential Critical Energy Infrastructure Information (CEII) Exhibits and Reports** 

DISK 5: GCPUD FLA5 (FERC Only)

**Confidential Report** 

#### **Acrobat Reader**

Adobe Acrobat Reader 5.1 is used to view all documents. It supports full text search of all documents on any disk. If Reader is not installed, a message will appear prompting an automatic installation of Reader from the CD. Follow the on-screen instructions for the install or to exit the application. It can also be installed by opening the file AcroReader51\_ENU\_full.exe located in the install directory on each CD.

#### Viewing and Navigating Documents with Adobe Acrobat Reader:

Acrobat Reader is used to access the Final License Application Exhibits, Technical Appendices, and the Consultation Record. For further details about Acrobat Reader, refer to the Acrobat Reader Help menu after launching the application. Here are some useful functions:

1. To close Acrobat Reader: Click the close button in the upper-right corner of the window or choose File>Close.

- 2. To access the Bookmark feature in the document: Click on the "Bookmark" tab to the left of the document window OR go to the "Window" pull down menu and click on "Bookmarks"
- 3. To use the Bookmarks: Click on the section you want to view. To view all of the bookmarks in the section, click on the + sign next to the section folder.
- 4. To use the Go to Page function: Under the "Document" pull down menu select "Go to Page" and type in the page number you want to view. Click OK.
- 5. To use the Find feature: Click on the "Edit" pull down menu and click on "Find". Type in the desired word or words to find in the document. Click on "Find".
- 6. To use the Search feature: Click on the "Search" icon. Type in the desired word or words to search for in documents on the disk. Click on "Search".

#### Navigation in the CD ROM set

To find the location of any individual document in the Final License Application open the **contents.pdf** which is located on each Disk. This file serves as the main navigational starting point to all documents. This file should open on insertion of the Disk, but if it does not, please navigate to it and double click to open the file in Acrobat.

The **contents.pdf** file on each CD ROM shows the location of all documents in the five disk<sup>1</sup> CD ROM set using several techniques:

- The bookmarks point to the individual documents or the appropriate area of the Contents of Disks section.
- The Contents of Disks section has more detail about the individual documents and is linked to the individual documents. It also lists the Volume Number of the document in the print version of the Final License Application.
- The HELP section describes the structure, requirements, and navigation of the Final License Application.

All individual files have been bookmarked to return to **contents.pdf**:

- Click on **MAIN MENU** to return to the **MAIN MENU** page of the **contents.pdf** from any individual document.
- Click on **CONTENTS of DISKS** to return to the **CONTENTS of DISKS** section of the **contents.pdf** from any individual document.
- Click on *First Stage Consultation* to return to the associated menu from any first stage consultation document.
- Click on **Meetings by Year** or **Meetings by Solution Group** to return to the appropriate menu page from any individual meeting.

<sup>1</sup> The two disks, GCPUD\_FLA4 and GCPUD\_FLA5 are non-public and are not included in the public set. In the private five disk collection the navigation is the same as for the three disk public set, but includes the additional two non-public disks.

- Click on **Second Stage Consultation** to return to the associated menu from any second stage consultation document.
- Click on **General Correspondence** to return to the associated menu from any document in general correspondence.

If the document selected in a menu or bookmark is on another CD, a dialog box will instruct you to close Acrobat and insert the appropriate disk.

#### **Helpful Hints**

Exhibit E1 - Summary Table of Comments and Applicant's Responses to Comments regarding 4/30/03 Draft License Application: Click on the document number found in the left column of the table to view the associated stakeholder comment letter.

Since the documents are on five CD-ROMs, it is important to close Acrobat when switching disks or else results can be unpredictable.

The document **contents.pdf** on all disks can be printed to serve as a guide book. It contains a complete list of all document sets on all disks.

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