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April 30, 2003

MEMORANDUM

TO: Council Members

FROM: Bruce Suzumoto

SUBJECT: Discussion on Mid-Columbia Habitat Conservation Plans

Shaun Seaman of Chelan County Public Utility District and Bob Clubb of Douglas County Public Utility District will summarize the essential elements of the Mid-Columbia Habitat Conservation Plans (HCPs) for Rocky Reach, Rock Island and Wells dams. The HCPs were developed in cooperation with various state and federal agencies and tribes to address impact of the Mid-Columbia hydroprojects on anadromous ESA listed and non-listed fish.

Chelan PUD and Douglas PUD are seeking Council endorsement of their HCPs. Attached is a draft letter of endorsement for review and consideration by the Council. Council action is requested on the letter at the June 2003 meeting in Boise.

Summaries describing the Mid-Columbia HCPs are also included with this memo. The complete HCPs and supporting documentation can be found on the PUDs' websites at: <http://www.chelanpud.org> and <http://www.dcpud.org>

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June 12, 2003
DRAFT

Charles Hoskin (Bill Dobbins)
General Manager
Chelan County Public Utility District (Douglas PUD)
327 N. Wenatchee Ave.
Wenatchee, WA. 98801

Dear Mr. Hoskin:

The Northwest Power and Conservation Council recently concluded its Mainstem rulemaking process. We appreciate your interest and assistance in the crafting of our plan for mainstem hydropower operations. The language in our approved program that pertains to the Mid-Columbia Habitat Conservation Plans is as follows:

“The Council will review and include as appropriate in the program settlement agreements for the Mid-Columbia hydroelectric projects.”

Habitat Conservation Plans (HCPs) are important agreements intended to serve the needs of fish and wildlife in a coordinated fashion. Your work in developing a comprehensive and long-term adaptive management plan, in compliance with the Endangered Species Act, for listed and non-listed anadromous fish species and their habitat as affected by the Mid-Columbia projects is commendable. The Council's mainstem plan amendments are consistent with the Mid-Columbia PUDs' HCPs.

The Council recognizes and endorses the Anadromous Fish Agreement and Habitat Conservation Plans (HCPs) for the Rocky Reach, Rock Island and Wells Hydroelectric Projects.

The Council looks forward to working with you in the future.

Sincerely,

Judi Danielson
Chair

The Rocky Reach and Rock Island Habitat Conservation Plans

What are they and how will they work?

More than nine years ago, Public Utility District No. 1 of Chelan County (Chelan PUD) began to assess how it should respond to a changing regulatory environment that would increasingly affect operation of its Rocky Reach and Rock Island Hydroelectric Projects on the Mid-Columbia River. The prospect of ESA listings for salmon and steelhead prompted the District in 1993 to develop two Habitat Conservation Plans (HCP) for anadromous fish in cooperation with federal and state regulatory agencies and Tribes. The plans commit Chelan PUD to a 50-year program to ensure our hydro projects have “no-net-impact” on mid-Columbia salmon and steelhead runs. This ambitious level of protection will be accomplished through a combination of project survival, off-site hatchery programs and evaluations, and habitat restoration work conducted in mid-Columbia tributary streams.

Implementation of the HCP agreement will require the continued cooperation of all the parties who signed the agreement in 2002. Therefore, a number of Committees were formed to oversee the various elements of the agreement.

Passage Survival - The Rocky Reach and Rock Island Coordinating Committees

While the overall project survival goal for adult and juvenile fish is 91%, biologists agree that at this time adult fish survival cannot be conclusively measured for each species covered by the plan. To compensate for the scientific unknowns, the HCPs set even higher standards for juvenile survival - 95% juvenile dam passage survival and 93% juvenile survival throughout the Project. Juvenile passage survival is the major component of both the Rocky Reach and Rock Island HCPs, but since the Projects are so distinct, different methods will be used at each dam to meet the survival goals set forth in the HCP. The Rock Island and Rocky Reach Coordinating Committees were created under section 4 of the HCPs to oversee all aspects of standards, methodologies and implementation related to passage survival for covered fish species. Each HCP signatory has a representative on the Coordinating Committees.

Spill

“Spill” is a traditional method for moving migrating juvenile fish past a hydroelectric dam. This occurs when a hydroelectric operator releases some water through the headgates without utilizing it for power generation. In successful spill situations, young fish are attracted by the free flowing water and are conducted into the project tailrace. Sometimes, however, because of a project’s specific configurations, spill is not the most effective option for protecting young fish.

At Rocky Reach, Chelan PUD intends to utilize a juvenile bypass system as the primary method for moving young fish around the dam; spill will supplement the bypass

system. At the Rocky Island Project, however, spill will be the primary tool for meeting juvenile survival standards under the Rock Island HCP.

Chelan PUD will spill between 15 and 25 percent of water at Rocky Reach in the spring and 15 percent in the summer, and 20 percent of water at Rock Island during the spring/summer migration period in 2003. Based on studies conducted in 2003, the Rocky Reach Coordinating Committee may adjust required spill for the 2004, 2005 and 2006 migrations based on a formula contained in the HCP. During 2004, 2005, and 2006 studies will establish the survival rate for fish migrating past Rocky Reach. Studies for Rock Island commenced in 2002 and will continue in 2003 and 2004.

Juvenile Bypass System

The juvenile bypass system is the key component of the Rocky Reach HCP. The system will collect juvenile fish before they reach the dam and return them to the river through a large pipe that terminates in the tailrace of the river project. Chelan PUD has hired contractors to install the surface collector in the Rocky Reach forebay and construct the bypass conduit.

The system will be operational in time for the next juvenile migration period, which begins in April 2003. Chelan PUD will continuously operate the bypass system from April 1 to August 31 to accommodate juvenile fish migration. Periodic fish capture information, video counts, and other empirical data will be gathered to determine whether bypass operations are meeting the HCP standards. Any needed modifications to the normal bypass operating period will be made by the Rocky Reach Coordinating Committee.

Habitat Improvements – The Tributary Committee

Preserving habitat is essential to the rebuilding of salmon and steelhead in North Central Washington. Through the HCPs, Chelan PUD established the Tributary Conservation Plan to fund projects for the protection and restoration of habitat within the watersheds of the Columbia, Okanogan, Methow, Entiat, and Wenatchee Rivers. Grants will be made to groups and individuals interested in habitat restoration. Projects will be selected for funding by a Tributary Committee composed of voting representatives appointed by the parties to the HCP. The Tributary Committee may also include expert advisors such as land and water conservancy groups.

Under the terms of the HCP, Chelan PUD will contribute \$229,800 annually to a “Plan Species Account” for Rocky Reach and \$485,200 to a “Plan Species Account” for Rock Island to fund the projects selected by the Tributary Committee. Alternatively, the Tributary Committee has the ability to request a fifteen-year lump sum payment in lieu of annual payments. In addition, Chelan PUD will fund a tributary assessment program for the purpose of monitoring and evaluating the performance of projects supported through the Tributary Conservation Plans.

Habitat improvements will contribute 2% toward the 100% “no-net-impact” goal.

Hatchery Supplementation

To address the decline in the chinook, sockeye, coho salmon and steelhead populations in North Central Washington, Chelan PUD established a Hatchery Compensation Plan to help rebuild fish populations. Through the plan, Chelan PUD will provide the funding for hatchery facilities that are operated and maintained by either Chelan PUD or a designated agent (such as the Washington Department of Fish and Wildlife). A Hatchery Committee composed of voting representatives appointed by parties to the HCP will oversee the development, implementation and monitoring of species specific hatchery programs.

Hatchery supplementation will contribute 7% toward the 100% “no-net-impact” goal.

Fulfilling Regulatory Obligations

Approval of these plans will allow the National Marine Fisheries Service (NMFS) to issue Chelan PUD Section 10 permits under the Endangered Species Act (ESA). The Section 10 permits issued by NMFS will provide for the continued operation of the Rocky Reach, and Rock Island hydro projects and PUD funded fish hatcheries, even though they may incidentally impact ESA listed spring chinook salmon and steelhead. Without the permits, operation of the hydro projects and hatcheries could be drastically altered.

In addition to the Endangered Species Act, the plans are intended to satisfy the projects’ obligations under the Federal Power Act; the Fish and Wildlife Coordination Act; the Essential Fish Habitat provisions of the Magnuson-Stevens Fishery Conservation and Management Act; the Pacific Northwest Electric Power Planning and Conservation Act; and Title 77 RCW of the State of Washington. It will also obligate the parties to work together to address water quality issues. Finally, the plans will satisfy the projects’ relicensing issues for the five plan species.

For More Information

If you would like more information about the HCPs or would like to see the plans and the environmental review documents, please visit Chelan PUD’s Web site at www.chelanpud.org and click on the HCP icon. You may also call Suzanne Bacon or Tracy Yount at (509) 663-8121.

**Overview of the 2002
Anadromous Fish Agreements and Habitat Conservation Plans
For the Wells, Rocky Reach and Rock Island
Hydroelectric Projects¹**

Background

On July 30, 1998 and amended on May 22, 2002, the Public Utility Districts of Douglas and Chelan Counties, Washington submitted incidental take permit applications to NMFS for the Wells, Rocky Reach, and Rock Island Hydroelectric Projects (the “Projects”). The incidental take permit applications are based upon proposed Anadromous Fish Agreements and Habitat Conservation Plans (the “Agreements”).² The Agreements are “intended to constitute a comprehensive and long term adaptive management plan for Plan Species and their habitat as affected by the Projects.”³ They are unlike any other habitat conservation plan ever filed with the United States Fish and Wildlife Service or the National Marine Fisheries Services.

The Agreements are highly innovative due to their scope and management plan. The Agreements are titled Anadromous Fish Agreements and Habitat Conservation Plans and not just “habitat conservation plans” because they address more than the Endangered Species Act. They also address the Federal Power Act, the Fish and Wildlife Coordination Act, the Pacific Northwest Electric Power Planning and Conservation Act, the Magnuson-Stevens Fishery Conservation and Management Act, and Title 77 of the Revised Code of Washington in one comprehensive agreement for each Project.⁴

Because the Agreements are comprehensive settlements, they propose a standard and scope greater than that required under the Endangered Species Act. The Agreements establish a survival standard of 100% No Net Impact (“NNI”) which means that the Projects will be virtually invisible to the species migrating past the Projects. There are two basic components of NNI: protection for species migrating past the Projects and mitigation for unavoidable mortality.

¹ This document is intended to explain only the *general* concepts contained within the Agreements. The obligations of the parties are of course determined by the specific language in the Agreements.

² The Agreements were prepared by the Chelan and Douglas PUDs, National Marine Fisheries Service (“NMFS”), U. S. Fish and Wildlife Service (“USFWS”), Washington Department of Fish and Wildlife (“WDFW”), Confederated Tribes of the Colville Reservation (“Colville”), Confederated Tribes and Bands of the Yakama Indian Reservation (“Yakama”), Confederated Tribes of the Umatilla Reservation (“Umatilla”), American Rivers, Inc, and Chelan and Douglas’ power purchasers. The 2002 Agreements have been signed pending completion of regulatory reviews by NMFS and the Federal Energy Regulatory Commission by all entities except for the Yakama, Umatilla, and American Rivers. Chelan’s power purchasers chose not to sign the Rocky Reach and Rock Island Agreements.

³ E.g., Introduction, Paragraph A, Rocky Reach HCP (2002). Throughout this document citations are not made to the Wells and Rock Island HCPs to keep the footnotes as short as possible. The text in the Wells and Rock Island HCPs are similar to that of the Rocky Reach HCP.

⁴ The Agreements’ treatment of water quality issues under the Clean Water Act is explained below in the section titled “What are the biological plans?”

Protection for the migrating species is accomplished through a series of performance (survival) standards, which are based upon actual survival of the migrating species, not simply measures to be implemented regardless of their actual benefit to the migrating species. Unavoidable mortality is mitigated through tributary habitat improvements and state of the art hatchery supplementation.

The level of protection afforded in the Agreements is provided to listed Upper Columbia River steelhead and Upper Columbia River spring chinook as well as all other species of salmon migrating past the Projects; even coho salmon, which are extinct from the Upper Columbia River and are being re-introduced, will be covered by the Agreement.

The Agreements are the result of an extensive collaborative process dating back to 1993, and represent the collective wisdom and professional judgment of the scientists and regional policy makers participating in the process.⁵ This collaborative process is also central to the decision making and dispute resolution aspects of the Agreements. All the stakeholders that sign the Agreements make the decisions.

The Agreements

What species are protected?

The Agreements apply to the anadromous salmonids known as the “Plan Species.” Plan Species are defined as spring, summer and fall chinook salmon (*Oncorhynchus kisutch*), sockeye salmon (*O. nerka*), coho salmon (*O. kisutch*), and steelhead (*O. mykiss*).⁶ However, since coho salmon are extinct in the portion of the Columbia River affected by the Projects, Chelan and Douglas did not request that the incidental take permit apply to coho salmon. The sub-set of the Plan Species for which the incidental take permits are requested are referred to in the Agreement as the “Permit Species.”⁷

What are the biological plans?

The biological plan is comprised of three primary components: 1) The survival standards for species migrating past the Projects; 2) Hatchery and tributary plans for mitigation of unavoidable mortality; and 3) Land use and other critical actions that impact either the survival standards of the species or the effectiveness of the Agreements.

The Survival Standards. The objective of the Agreements is to achieve 100% No Net Impact for each Plan Species affected by the Projects.⁸ NNI consists of two

⁵ The entities participating in the development of the Agreements were the National Marine Fisheries Service, the United States Fish and Wildlife Service, the Washington Department of Fish and Wildlife, the Confederated Tribes of the Colville Reservation, the Confederated Tribes and Bands of the Yakama Indian Nation, the Confederated Tribes of the Umatilla Indian Reservation, and American Rivers, Inc.

⁶ E.g., Section 13.20, Rocky Reach HCP.

⁷ E.g., Section 13.19 Rocky Reach HCP.

⁸ E.g., Introduction, Paragraph B, Rocky Reach HCP.

components: (1) 91% Combined Adult and Juvenile Project Survival achieved by project improvement measures implemented within the geographic area of the Project; and (2) 9% compensation for Unavoidable Project Mortality provided through hatchery and tributary programs, with 7% compensation provided through hatchery programs and 2% compensation provided through tributary programs.⁹ NNI will be maintained for the duration of the Agreement for each Plan Species affected by the Project. A coordinating committee for each Project composed of each entity that signs the Project's Agreement will ensure the NNI is achieved and maintained.¹⁰

To achieve the survival standards of NNI, Chelan and Douglas are first obligated to achieve and maintain 91% Combined Adult and Juvenile Project Survival. Since this standard is not measurable at this time due to the inability to measure adult survival rates, Chelan and Douglas must show survival based on prioritized surrogate measurements. The first surrogate measurement is a Juvenile Project Survival rate of 93%. If Juvenile Project Survival cannot be measured, then Juvenile Dam Passage Survival shall be measured as the next best alternative until the Juvenile Project Survival measurement is possible. Finally, if none of these measurements are possible, then the calculated Juvenile Dam Passage survival can be used until Juvenile Project Survival measurable. For each of these survival paths as shown in Figure 1 below, there are decision and measurement points that either lead to showing achievement of the standard or to additional steps to achieve the standards.

For some Plan Species such as sockeye and sub-yearling chinook where measurement of Juvenile Dam Passage Survival and Juvenile Project Survival is not yet possible, the Juvenile Dam Passage Survival Standard will be calculated based on the best available information (including the proportion of fish utilizing specific passage routes and the use of off-site information), as determined by the coordinating committee. This calculation will consider the same elements as measured Juvenile Dam Passage Survival, except that off-site information may be used where site-specific information is lacking.

⁹ E.g., Section 3.1, Rocky Reach HCP.

¹⁰ E.g., Section 4.7, Rocky Reach HCP.

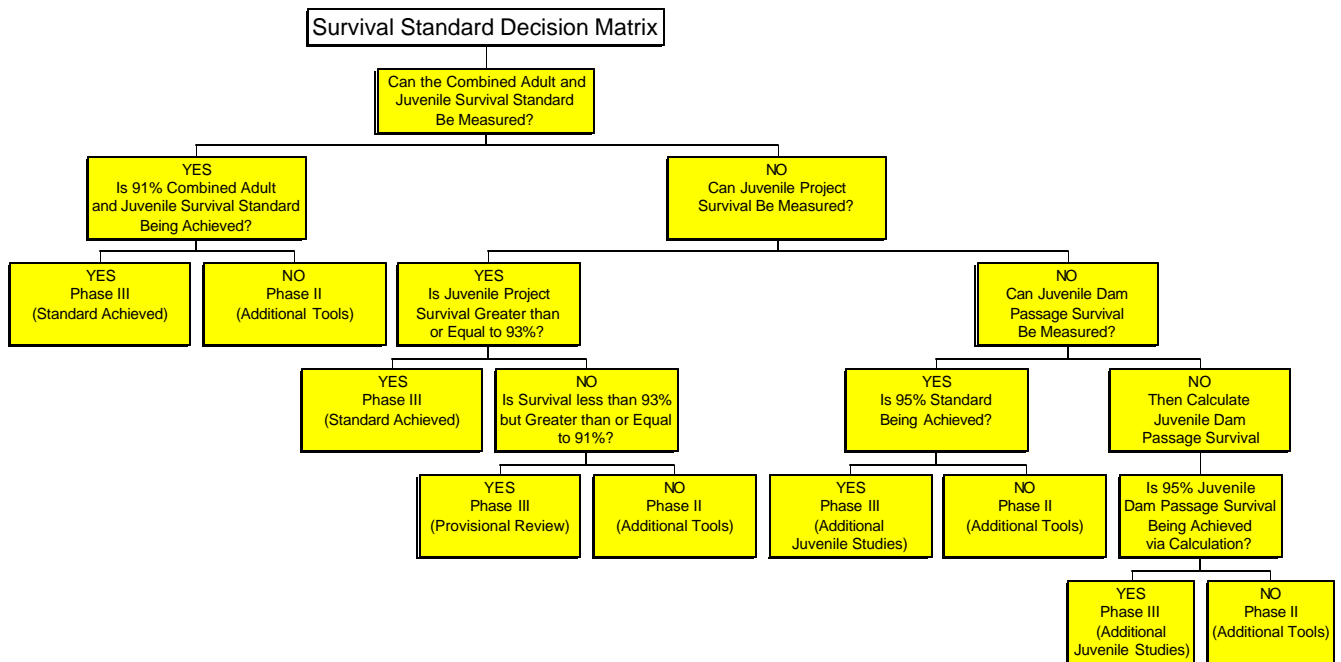


Figure 1, Survival Standard Decision Matrix

If Chelan and Douglas are unable to achieve 91% Combined Adult and Juvenile Project Survival, or 93% Juvenile Project Survival, or 95% Juvenile Dam Passage Survival, then Chelan and Douglas are obligated to consult with the parties through the coordinating committee to jointly seek a solution.¹¹ If a solution cannot be identified to achieve the standards, then any Party may take action to withdraw from the Agreement on the basis that it is impossible to achieve the standards in the Agreement, or take action under any other provision of the Agreement.¹²

Unavoidable Project Mortality. Since hydroelectric projects obstruct the waterways the salmon use to migrate there is some mortality that just cannot be eliminated. This mortality is addressed in the Agreements as “Unavoidable Project Mortality.” Unavoidable Project Mortality is addressed through hatchery and tributary compensation, with 7% compensation provided through hatchery programs and 2% compensation provided through tributary programs.¹³ Unavoidable Project Mortality is initially assumed to be 9%, based on several assumptions regarding Project impacts.¹⁴ The word “initially” is very important. It is currently not possible to measure Unavoidable Project Mortality, due to the technical inability to measure adult mortality caused by hydroelectric projects. Since Unavoidable Project Mortality is an assumption, it is implicit within the Agreements that once technology is developed to measure these numbers it will be accurately established. Since the Agreements do not assign responsibility to any one party to take on this responsibility, the responsibility lies with

¹¹ E.g., Section 3.2, Rocky Reach HCP.

¹² E.g., Section 3.2, Rocky Reach HCP.

¹³ E.g., Section 3.1, Rocky Reach HCP.

¹⁴ E.g., Section 13.31, Rocky Reach HCP.

the coordinating committee as a whole. Since the Agreements provide for the assumption to be verified, all signatories to the Agreements have the incentive to develop the technology and have it implemented as soon as possible. In the event Unavoidable Project Mortality is proven to be something other than 9%, then the coordinating committee must decide the appropriate response.¹⁵

Hatchery Compensation Plan. Hatchery compensation is provided by the Agreements' Hatchery Compensation Plan. Chelan and Douglas will provide the necessary funding and capacity to provide the 7% hatchery compensation level set by the NNI, and operate the hatcheries (either directly or through a contractor) according to the terms developed by the parties through the hatchery committee, and the NMFS Section 10 permits.¹⁶ Juvenile Project Survival estimates, when available, will be used to adjust hatchery based compensation programs and adult survival estimates will be used to adjust Plan Species Account contribution.¹⁷

Except in 2013 and every ten years thereafter, NMFS will refrain from applying hatchery policy decisions that would preclude the 7% hatchery levels (as adjusted) from being achieved.¹⁸ During the 10-year periods, NMFS has a very limited window of circumstances where changes in NMFS hatchery policies could modify the production of the hatcheries. During the 10th year, NMFS is allowed to adjust the hatchery permits in response to changes in its hatchery policy. If NMFS fails to allow full utilization of the PUDs hatchery capacity to achieve the 7% hatchery levels (as adjusted), this will not be considered a basis for NMFS withdrawal from the Agreements or revocation of the permits until 2013 for Chelan and 2018 for Douglas. As such, any party other than NMFS may withdraw from the Agreements.¹⁹ While NMFS may adjust the level of hatchery production, hatchery production cannot be reduced to preclude the production of hatchery fish to compensate for original Project inundation without action by the Federal Energy Regulatory Commission ("FERC").²⁰

The initial estimated hatchery production capacities for Plan Species needed to provide compensation for Unavoidable Project Mortality are based on a variety of factors. Those include average adult returns of plan species for a baseline period, a 7% compensation requirement, and baseline adult/smolt survival rates for existing mid-Columbia River hatcheries. The estimated initial production capacity will be evaluated every 10 years to help achieve and maintain NNI.

Tributary Conservation Plan. The Tributary Plan will compensate for 2% of Unavoidable Project Mortality.²¹ The Tributary Conservation Plan consists of the Agreement and Exhibit B "Tributary Compensation Plan Species Account Project

¹⁵ E.g., Section 3, Rocky Reach HCP.

¹⁶ E.g., Section 8.1.2, Rocky Reach HCP.

¹⁷ Section 7.4.3, Wells HCP.

¹⁸ E.g., Section 10.1.4, Rocky Reach HCP.

¹⁹ E.g., Sections 2.1.1, 2.3 and 8.8.1 Rocky Reach HCP.

²⁰ E.g., Section 8.4.3, Rocky Reach HCP.

²¹ E.g., Section 7.2, Rocky Reach HCP.

Selection, Implementation, and Evaluation Plan.”²² Under the Tributary Plan, Chelan and Douglas will provide a Plan Species Account to fund projects for the protection and restoration of Plan Species’ habitat within the Columbia River watershed, including the Okanogan, Methow, Entiat and Wenatchee river watersheds. While studies will not be undertaken to verify that the tributary programs have contributed to an additional 2% in fish production, the Agreements provide a separate assessment fund that can be used to assess the relative performance of projects approved by each Project’s tributary committee. This is accomplished through a “Tributary Assessment Program.”²³ Each hydro-project will contribute up to \$200,000 for this assessment. This money is in addition to the monies the Projects will contribute for tributary enhancement.

Each Project’s Tributary Plan will be managed by a tributary committee composed of one representative from each party that signs the Project’s Agreement. To assure that the maximum amount of money will be spent on actual projects, each Project’s annual committee overhead costs cannot exceed \$80,000 without the unanimous vote of the tributary committee.²⁴ Whenever feasible, projects selected by the tributary committee will “take into consideration and be coordinated with other conservation plans or programs”, and “whenever feasible, the tributary committee shall cost-share with other programs, seek matching funds, and ‘piggy-back’ programs onto other habitat efforts.”²⁵

Land Use Decisions. When Chelan and Douglas make land use or related permit decisions on Project lands that affect reservoir habitat, Chelan and Douglas must consider the cumulative impact effects in order to meet the conservation objectives of the Agreements, requirements of the FERC licenses, and other applicable laws and regulations. Chelan and Douglas will also notify and consider comments from the parties to the Agreements regarding land use permit application on Project owned lands.²⁶ Applicants to use or occupy Project lands or waters will be informed by Chelan and Douglas that such use or occupation may result in an incidental take of an endangered or threatened species under the ESA, and may require advance authorization from NMFS or USFWS.²⁷

Water Quality. While the Agreements are not designed to define the actions necessary to satisfy the Clean Water Act, their implementation must nevertheless satisfy the Clean Water Act.²⁸ Furthermore, the Agreements require the parties to “work together to address water quality issues.”²⁹ To assist in implementing the Agreements consistent

²² E.g., Section 7.1, Rocky Reach HCP.

²³ E.g., Section 7.6, Rocky Reach HCP.

²⁴ E.g., Section 7.4.2, Rocky Reach HCP.

²⁵ E.g., Section 7.7.2, Rocky Reach HCP.

²⁶ E.g., Section 6.1, Rocky Reach HCP.

²⁷ E.g., Section 6.2, Rocky Reach HCP.

²⁸ It is worthy to note that the parties did engage the Washington State Department of Ecology to seek their participation in the development of the Agreements so that the Agreements could define the actions necessary to satisfy the Clean Water Act and its regulations. The Department of Ecology’s staff wanted to participate in the development of the Agreements and understood the significance of the Agreements, but resource limitations precluded their involvement. The parties nevertheless addressed the Clean Water Act the best they could in the Department’s absence.

²⁹ E.g., Section 6.3, Rocky Reach HCP.

with the Clean Water Act, Chelan and Douglas are actively working on water quality issues as part of the total dissolved gas waivers issued by the Washington State Department of Ecology for the fish spill programs.

Early Termination Mitigation. Lastly, if the incidental take permits issued by NMFS are terminated early, NMFS may require Chelan and Douglas to mitigate for any past incidental take that has not been sufficiently mitigated prior to the termination of the permit. NMFS would require Chelan and Douglas to continue relevant mitigation measures of the Agreements for some or all of the time period covered by the permits as originally issued.³⁰

How are the survival standards measured?

The coordinating committee will oversee the measurement and evaluation of the survival standards.³¹ Studies will commence by the 2004 juvenile migration at Rocky Reach, unless agreed to otherwise by the coordinating committee. Studies commenced in 2002 for Rock Island, and 1999 for Wells. The Agreements require three years of measurement and evaluation.³² Douglas has completed three years of Juvenile Project Survival studies.³³ Based upon these studies Douglas has achieved the 93% Project Survival goal for yearling chinook and steelhead,³⁴ and the Parties believe that the calculated Juvenile Dam Passage Survival for sockeye and sub-yearling chinook is probably greater than 95%.³⁵

The Agreements define how the studies are to be used to establish a species' survival rate through each Project. The Agreements define when a study is valid,³⁶ how the confidence intervals around the studies are to be taken into account,³⁷ how the studies combined to produce a single survival rate,³⁸ how varying river conditions and operating conditions are to be considered,³⁹ and what happens when the studies show that the standards are close to being achieved but not yet achieved.⁴⁰

NMFS prepared a briefing paper that identifies the current best available measurement technology and the appropriate uses of the technology.⁴¹ The briefing paper along with the Agreements provide each Project's coordinating committee with the necessary information to know what standards they are supposed to measure, what order they are to measure the standards, what tools should be used to measure the standards, and indirectly, what technologies need to be developed and in what priority.

³⁰ E.g., Section 10.5, Rocky Reach HCP.

³¹ E.g., Section 4.7, Rocky Reach HCP.

³² E.g., Section 5.3, Rocky Reach HCP.

³³ Section 4.2.1, Wells HCP.

³⁴ Section 4.2.1, Wells HCP.

³⁵ Section 3.1, Wells HCP.

³⁶ E.g., Sections 5.2.3 and 13.24 Rocky Reach HCP.

³⁷ E.g., Section 5.2.3, Rocky Reach HCP.

³⁸ E.g., Section 5.2.3, Rocky Reach HCP.

³⁹ E.g., Sections 5.2.3 and 13.24, Rocky Reach HCP.

⁴⁰ E.g., Sections 5.2.3 and 5.3.3, Rocky Reach HCP.

⁴¹ E.g., Section 5.2.3 and Supporting Document D, Rocky Reach HCP.

In 2013 and every 10 years thereafter, the coordinating committee will conduct a comprehensive review of the Agreements assessing overall status in achieving NNI for each species.⁴² Annually, each of the Agreements' committees will prepare progress reports.⁴³

What happens if results fall short of expectations?

If measurement and evaluation concludes that the survival standard has not been achieved, then each Project's coordinating committee will decide on additional "tools,"⁴⁴ to implement to achieve the survival standard. The following criteria will be used to make the selection: likelihood of biological success; time required to implement; and cost-effectiveness of solutions. However, the balancing of a tool's cost-effectiveness will only take place where two or more alternatives are comparable in their biological effectiveness.⁴⁵

A cycle of implementation of additional tools and measurement is repeated until the survival standards are achieved.⁴⁶ If a solution cannot be identified by 2013 (2018 for Wells) to achieve the standards, then any Party may take action to withdraw from the applicable Agreement⁴⁷ on the basis that it is impossible to achieve the standards in the Agreement, or take action under any other provision of the Agreement.⁴⁸

How do disagreements get resolved?

Each Project's coordinating committee first addresses all disputes at a technical level. If the dispute cannot be resolved at the technical level, then the parties' executives convene in a policy committee.⁴⁹ If the executives do not resolve the dispute, the parties have their choice of forums.⁵⁰ The Agreements do not contain arbitration or mediation provisions; although, the parties are nevertheless encouraged to utilize alternative dispute resolution.⁵¹

⁴² E.g., Section 4.8, Rocky Reach HCP.

⁴³ E.g., Section 4.8, Rocky Reach HCP.

⁴⁴ The term "tools" is a defined term in the Agreements to mean "any action, structure, facility or program (on-site only) at the Project, except those prohibited in Section 9.7 'Drawdowns/Dam Removal/Non-Power Operations' that are intended to improve the survival of Plan Species migrating through the Project. Tools do not include fish transportation unless otherwise agreed by the coordinating committee. This term is a sub-set of Measures". E.g., Section 13.29, Rocky Reach HCP.

⁴⁵ E.g., Section 5.3.2, Rocky Reach HCP.

⁴⁶ E.g., Section 5.3.2, Rocky Reach HCP.

⁴⁷ For Wells this may occur in 2018, but for Rocky Reach and Rock Island this may occur in 2013.

⁴⁸ E.g., Section 3.2, Rocky Reach HCP.

⁴⁹ E.g., Sections 11.1.1 and 11.1.2, Rocky Reach HCP.

⁵⁰ E.g., Section 11.1.3, Rocky Reach HCP.

⁵¹ E.g., Section 11.1.3, Rocky Reach HCP.

What are the terms of the Agreements?

The Agreements commence on the date signed and continue for a period of 50-years, unless the Agreements terminate early.⁵²

In developing the 2002 Agreements for Rocky Reach and Rock Island, it was very important for everyone to identify the activities that were to be implemented during NMFS' and FERC's regulatory reviews of these Agreements. As a result, detailed provisions were included in Section 5.4 of the Agreements addressing spill, bypass operations, adult passage and predator control and the staggered effective date was included in Section 1.2. Upon a defined group of entities signing the Rocky Reach and Rock Island Agreements (which did occur), Chelan agreed to implement specific provisions of the Agreements during the regulatory review process. The remaining provisions take effect when NMFS and FERC issue the permits and orders required by the Agreements.

Is a party permitted to withdraw from the Agreements?

While the Agreements have 50-year terms, there are specified circumstances under which the Agreements could terminate early, or where a party may withdraw from the Agreements. These provisions are contained in Section 2 of the Agreements. For example, a party may withdraw from the Agreements if NNI is not being achieved,⁵³ as a result of another party's failure to comply with the terms of the Agreements,⁵⁴ or when a regulatory entity takes action that is detrimental to the achievement of the obligations of the Agreements.⁵⁵

In the event a Party does withdraw from the Agreements, the withdrawing Party is not bound by the Agreements, and all rights and remedies of a non-Party are available to the withdrawing Party.⁵⁶ Should the Agreements terminate, become void, or be declared unenforceable, then Chelan and Douglas will continue to implement the last measures agreed upon until FERC orders otherwise.

Conclusion

The Agreements provide each Plan Species with the maximum protection practicable and minimize and mitigate the impacts of any taking as required by Section 10 of the Endangered Species Act.⁵⁷ This is accomplished through the Agreements' survival standards, required spill or bypass operations for juveniles, required measures for adults, predator control, standards that must be satisfied for land use and permitting decisions on Project lands, the obligation to address water quality issues, and the requirement to mitigate for any past incidental take that was not sufficiently mitigated in

⁵² E.g., Section 1.1, Rocky Reach HCP.

⁵³ E.g., Section 2.1, Rocky Reach HCP.

⁵⁴ E.g., Section 2.2, Rocky Reach HCP.

⁵⁵ E.g., Section 2.3, Rocky Reach HCP.

⁵⁶ E.g., Section 2.8, Rocky Reach HCP.

⁵⁷ 16 U.S.C. § 1539.

the event the incidental take permit is terminated early. Furthermore, in order to protect, restore and increase the abundance of the Plan Species and their habitat, the Agreements mitigate for all the unavoidable mortality associated with the Projects through the Tributary Conservation Plan and the Hatchery Compensation Plan. Therefore, the 100% NNI standard of the Agreements will implement truly innovative salmon management on the Columbia River.

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Background and Summary of the Anadromous Fish Agreement and Habitat Conservation Plan for the Wells Hydroelectric Project

A. Background

The history leading up to the HCP Agreement dates back to 1978, when NMFS, WDFW, the Confederated Tribes and Bands of the Yakama Indian Nation (“Yakama”) and other entities filed various petitions with the Commission seeking spill, improved flows, and other modifications of operations at the Project, as well as three other FERC licensed hydroelectric facilities¹ on the Columbia River in Washington State to protect downstream migrating juvenile fish. In response to these petitions, the Commission in March 1979 set for hearing, before an administrative law judge, a consolidated proceeding on juvenile fish protection at these projects.² This consolidated proceeding, which is ongoing for several of the projects, has become known as the *Mid-Columbia Proceeding*. In 1979, under the direction of then Presiding Administrative Law Judge Allen Lande, the parties to the *Mid-Columbia Proceeding* negotiated a series of interim settlement agreements that provided for spill, hatchery compensation, and studies to improve fish protection.³

As licensee of the Wells Project, FERC Project No. 2149, one of the four FERC licensed projects involved in the *Mid-Columbia Proceeding*, Douglas was intimately involved in the *Mid-Columbia Proceeding* at the time these interim settlement measures were negotiated and filed. On January 18, 1989, the Commission approved a settlement agreement for the Rock Island Project, FERC Project No. 943⁴. During this same time period, Douglas was involved in the development of a highly effective juvenile bypass system and was actively negotiating a long-term settlement agreement for anadromous fish resources at the Wells Project. These negotiations resulted in the 1990 Wells Agreement. Parties to the 1990 Wells Agreement filed an offer of settlement with the Commission, requesting that the Commission include the 1990 Wells Agreement in the FERC license for the Project. On January 24, 1991, the Commission: (1) incorporated the 1990 Wells Agreement as part of the license for Project No. 2149; and (2) terminated the *Mid-Columbia Proceeding* insofar as it pertained to the Wells Project⁵. Since 1991, Douglas has operated the Project pursuant to the new license for the Project, including the incorporated 1990 Wells Agreement.

¹ The other three projects are Chelan’s Rocky Reach Hydroelectric Project, FERC Project No. 2145 and Rock Island Hydroelectric Project, FERC Project No. 943, and Grant County PUD’s Priest Rapids Hydroelectric Project, FERC Project No. 2114.

² *Pub. Util. Dist. No. 2 of Grant County, Wash., et al.*, 6 FERC ¶ 61,210 (1979).

³ *Pub. Util. Dist. No. 2 of Grant County, Wash., et al.*, 8 FERC ¶ 63,064 (1979). The Commission approved these interim measures. *Pub. Util. Dist. No. 2 of Grant County, Wash., et al.*, 10 FERC ¶ 61,257 (1980).

⁴ *Pub. Util. Dist. No. 1 of Chelan County, Wash.*, 46 FERC ¶ 61,033, at 61,212 (1989).

⁵ *See supra*, Footnote 2.

The *Mid-Columbia Proceeding* continued in regard to the two remaining FERC licensed projects, *i.e.*, Chelan's Rocky Reach Project, FERC Project No. 2145 and Grant County PUD's Priest Rapids Project, FERC Project No. 2114.

In August 1993, Douglas County PUD, Chelan County PUD, and Grant County PUD, (collectively, "Mid-Columbia PUDs") initiated discussions with NMFS, USFWS, and WDFW to develop a long-term, comprehensive program for managing fish and wildlife that inhabit the Mid-Columbia River Basin (from the tailrace of Chief Joseph Dam to the confluence of the Yakima and Columbia Rivers). As these discussions proceeded and began to gain momentum, other parties, such as the Colville, the Yakama, the Confederated Tribes of the Umatilla Indian Reservation ("Umatilla"), American Rivers, and FERC Staff, joined the negotiations.

During these discussions, the Parties first explored the possibility of developing an ecosystem-based plan for managing fish and wildlife resources inhabiting the Mid-Columbia River Basin, but because of the immense breadth of this type of plan the Parties decided to focus on an agreement for aquatic species inhabiting the Mid-Columbia River Basin, including fish, plants and animals. After extensive review, the Parties further concluded, given the likelihood that certain species of salmon and steelhead would be listed in the near future under the ESA and the lack of information regarding other aquatic species, that the best basin-wide approach would be to develop an agreement for anadromous salmonids, specifically: spring, summer/fall chinook salmon (*O. tshawytscha*); sockeye salmon (*O. nerka*); coho salmon (*O. kisutch*); and steelhead (*O. mykiss*) (collectively, "Plan Species").

On July 30, 1998, following five years of negotiations, an unexecuted form of the HCP Agreement was filed with NMFS with an Application for Individual Incidental Take Permit⁶. NMFS, as lead agency, and the FERC, as a cooperating agency, prepared a DEIS⁷ on the unexecuted form of the HCP Agreement. Following a review of the public comments on the DEIS, the Parties engaged in further analysis, discussion and negotiations to clarify the terms of the HCP Agreement which was executed in April 2002.

The efforts of the Parties to achieve settlement were aided by the informal participation of certain members of FERC staff who were made available for this purpose by the Commission. Initially, Mr. John Schnagel assisted the Parties with the negotiations that led to the form of the HCP Agreement that was filed with NMFS in 1998. Subsequently, the Commission issued a Notice⁸ assigning Mr. Merrill Hathaway, Mr. Keith Brooks, Mr. Jim Hastreiter and Mr. Tim Welch to continue with this effort and

⁶ See *supra*, Footnote 8. Similar applications were also filed for the Rock Island Hydroelectric Project, FERC No. 943, and the Rock Reach Hydroelectric Project, FERC No. 2145.

⁷ See *supra*, Footnote 7.

⁸ Notice, Docket No P-2149-000, (issued September 8, 1999).

providing for separation of functions pursuant to Rule 2202. As a result of this involvement, members of FERC staff participated in numerous meetings with the Parties that led to the revision and execution of the HCP Agreement submitted herein for approval. FERC staff acted as sounding boards for ideas, facilitated shuttle diplomacy, and offered concepts to resolve issues consistent with Commission policy.

As explained in more detail below, the HCP Agreement is a comprehensive and long-term management plan that imposes results-based protection and mitigation measures for specific anadromous fish species affected by the continued operation of the Project.

Following compliance with the Commission's obligations under NEPA, ESA and the Federal Power Act ("FPA"), the Parties respectfully request that the Commission issue an order as soon as possible: (1) approving the HCP Agreement, (2) deleting the 1990 Wells Agreement from the Project's license in its entirety, including all articles that refer to or implement its provisions; and (3) amend Douglas's license to incorporate the HCP Agreement as a special article thereof.²

B. Summary of HCP Agreement¹⁰

This summary is provided to satisfy the requirements of the regulations, and is not intended by the Parties as a definitive statement of interpretation of the rights and duties of the Parties under the HCP Agreement, which are expressed exclusively in the HCP Agreement itself.

The HCP Agreement is intended to be a comprehensive and long-term management plan for Plan Species affected by the Project, which will replace the obligations contained within the 1990 Wells Agreement that is currently included in the license for the Project. The Parties believe that the Wells HCP Agreement (along with the agreements submitted concurrently for the Rock Island and Rocky Reach Hydroelectric projects) is the first settlement agreement that incorporates a habitat conservation plan for a Commission licensed project. The objective of the HCP Agreement is to achieve "No Net Impact" for each "Plan Species," *i.e.*, chinook salmon, sockeye salmon, coho salmon, and steelhead, affected by the Project, and to maintain the same for the duration of the HCP Agreement. No Net Impact will be accomplished through fish passage at the Project, hatchery programs, and fish habitat work along tributary rivers and streams.

² See *infra* Part II.B.

¹⁰ Capitalized terms not defined in this Summary have the meaning as set forth in the HCP Agreement. Thus, in the event of any inconsistency between the HCP Agreement and this Explanatory Statement, the language of the HCP Agreement controls.

The Parties believe that these actions will contribute to the rebuilding of habitat production capacity and basic productivity and numerical abundance of Plan Species. The following sections outline the salient provisions of the HCP Agreement.

1. Survival Standards

Section 3 of the HCP Agreement provides that No Net Impact will be achieved on a specified schedule and maintained for the duration of the HCP Agreement for each Plan Species affected by the Project. No Net Impact has two components: (1) a Combined Adult and Juvenile Project Survival Standard¹¹ of at least 91%¹² and (2) up to 9% compensation for Unavoidable Project Mortality provided through hatchery and tributary programs, with up to 7% compensation provided through hatchery programs and up to 2% compensation provided through tributary programs.

Douglas agrees to be responsible for achieving 91% Combined Adult and Juvenile Project Survival through Project improvement measures. Douglas will also be responsible for: (1) funding the 2% Tributary Conservation Plan;¹³ (2) providing capacity and funding for the 7% Hatchery Compensation Plan;¹⁴ and (3) making capacity and funding adjustments to the Hatchery Compensation Plan to reflect and compensate for future increases in run size of each Plan Species. If Douglas is unable to achieve 91% Combined Adult and Juvenile Project Survival (or, as discussed below, 93% Juvenile Project Survival or 95% Juvenile Dam Passage Survival¹⁵), Douglas must consult with the Parties through a Coordinating Committee, established pursuant to the HCP Agreement,¹⁶ to jointly seek a solution. If Unavoidable Project Mortality is not compensated for through the Tributary Conservation Plan and Hatchery Conservation Plan, the Hatchery Committee may examine additional hatchery improvements to meet the Unavoidable Project Mortality obligation.

2. Passage Survival Plan

In accordance with Section 4 of the HCP Agreement, Douglas agrees to achieve and maintain a Combined Adult and Juvenile Project Survival standard of 91%, meaning that 91% of each Plan Species (juvenile and adult combined) survive Project effects when migrating through the Project's reservoir, forebay, dam and tailrace, including direct, indirect, and delayed mortality where ever it may occur and can be measured (as it relates

¹¹ For a more in-depth discussion of this standard, see *infra* Part I.B.1 and I.B.2.

¹² See definition for Combined Adult and Juvenile Project Survival in HCP Agreement (sub-Section 13.3, page 50).

¹³ See *infra* Part I.B.5.

¹⁴ See *infra* Part I.B.6.

¹⁵ See *infra* Part I.B.1 and I.B.2.

¹⁶ See *infra* Part I.B.4.

to the Project) given the available mark-recapture technology. As of 2002, the Parties agree that adult fish survival cannot be conclusively measured. Based upon regional information, the Parties agree that adult survival is estimated to be 98-100%. Until technology is available to accurately differentiate hydro-related mortality from natural adult losses, initial compliance with the Combined Adult and Juvenile Survival Standard will be based upon the measurement of juvenile fish survival.

Limitations associated with the best available technologies have required the development of three standards for assessing juvenile fish survival at the Project. In order of priority they are: 1) Measured Juvenile Project Survival¹⁷; 2) Measured Juvenile Dam Passage Survival¹⁸; and 3) Calculated Juvenile Dam Passage Survival. The survival of each Plan Species shall be determined by using one of three survival measures.

For some Plan Species such as sockeye and subyearling chinook, where measurement of Juvenile Project Survival and Juvenile Dam Passage Survival is not yet possible, the Juvenile Dam Passage Survival Standard will be calculated based on the best available information, as determined by the Coordinating Committee.

This Agreement contains three phases of implementation. Under Phase I, Douglas will implement: (1) juvenile and adult operating plans and criteria to meet No Net Impact Survival Standards; and 2) a monitoring and evaluation program to determine compliance with the survival standards.

Following the completion of the three-year juvenile survival studies¹⁹, the Coordinating Committee will determine whether the pertinent survival standard has been achieved for each Plan Species²⁰. If a standard has not been achieved for a particular Plan Species, Douglas will proceed to Phase II (Interim Tools) for that species, where Douglas will implement a very specific set of interim measures that will then require additional evaluation toward the achievement of the pertinent survival standard. If those measures implemented under Phase II (Interim Tools) fail to achieve the pertinent survival standards, such additional tools will be chosen using specified criteria, such as likelihood of success, timing and cost-effectiveness. Until the survival standards being evaluated are achieved, Douglas will continue to implement either Interim or Additional Tools, or until the coordinating committee determines the standards are impossible to achieve. The HCP requires Douglas to achieve no net impact by no later than 2013.

¹⁷ See definition for Juvenile Project Survival in HCP Agreement (sub-Section 13.14, page 51).

¹⁸ See definition for Juvenile Dam Passage Survival in HCP Agreement (sub-Section 13.13, Page 51).

¹⁹ Douglas has already completed the Phase 1 survival studies. Three years of Juvenile Project Survival studies were conducted and the results are documented in the HCP Agreement, *Appendix B: Wells Project Survival Estimates*.

²⁰ During the HCP negotiations, the Parties determined that the Juvenile Project Survival Standard had been achieved for steelhead and yearling chinook and that the Juvenile Dam Passage Survival Standard has likely been achieved for sockeye and subyearling chinook.

If the Coordinating Committee determines, either at the end of Phase I or anytime during Phase II, that a survival standard has been achieved, then the Parties will proceed to Phase III of the Agreement, during which Douglas agrees to maintain the survival standard throughout the remaining term of the HCP Agreement. During Phase III, juvenile survival will also be evaluated, every ten years, as determined by the Coordinating Committee.

3. Reservoir Habitat and Water Quality

Section 5 of the HCP Agreement provides that when making land use or related permit decisions, Douglas will consider the cumulative impact of these decisions in order to satisfy the conservation objectives of the HCP Agreement, requirements of the Project's FERC license, and other applicable law. Douglas also agrees to notify and consider the comments from the Parties regarding any land-use permit application on Project lands.

4. Coordinating Committee

Section 6 of the HCP Agreement establishes a Coordinating Committee, consisting of one representative from each of the Parties and one non-voting observer acting on behalf of Douglas's power purchasers. The Coordinating Committee will oversee all aspects of the standards, methodologies, and implementation of the HCP Agreement by: (1) establishing protocols and methodologies for determining whether survival standards are being achieved for each Plan Species; (2) determining whether the Parties are carrying out their responsibilities under the HCP Agreement; (3) determining whether No Net Impact is achieved; (4) determining the most appropriate survival standard to measure for each Plan Species; (5) approving studies prior to implementation; (6) reviewing study results and determining their applicability; (7) adjusting the Passage Survival Plan to address survival and Unavoidable Project Mortality; (8) resolving disputes; and (9) adjusting schedules and dates of performance. The predecessor to the proposed HCP Coordinating Committee, the Wells Coordinating Committee, has been very successful at resolving fish issues associated with the Wells Project without having to resort to alternative dispute resolution.

5. Tributary Conservation Plan

In Section 7 of the HCP Agreement, the Parties agree to implement a Tributary Conservation Plan (Tributary Plan). Under the Tributary Plan, Douglas will provide a Plan Species Account to fund projects for the protection and restoration of Plan Species habitat within the Columbia River watershed (from Chief Joseph tailrace to the Wells tailrace), and the Methow, and Okanogan watersheds. The District's funding of the Plan Species Account will be considered full and complete compensation for adult mortality associated with the Project until actual adult survival rates can be accurately determined. Projects to be funded by the Plan Species Account will be selected by a Tributary

Committee, consisting of representatives of the Parties, in accordance with criteria and priorities set forth in the HCP Agreement.

Once this Agreement has been approved by the FERC, Douglas has agreed to provide an initial contribution of \$1,982,000 in 1998 dollars to the Plan Species Account. This initial contribution shall be in lieu of the first five years of annual payments to the Plan Species Account. Five years after the initial contribution to the Plan Species Account, Douglas will do one of the following: 1) make annual payments of \$176,178 (2%) in 1998 dollars as long as the Agreement is in effect; or 2) provide an up front payment of \$1,761,780 (2% for 10 years) in 1998 dollars, but deducting cost associated with bond issuance and interest. Douglas will also provide annual financial reports of the Plan Species Account activity to the Tributary Committee. In addition, Douglas agrees to provide a tributary assessment program separate from the Plan Species Account. The tributary assessment program will be utilized to monitor and evaluate the relative performance of projects approved by the Tributary Committee and directly funded by the initial contribution to the Plan Species Account. The total cost of the tributary assessment program will not exceed \$200,000.

6. Hatchery Compensation Plan

Section 8 of the HCP Agreement establishes a Hatchery Compensation Plan, whereby Douglas agrees to provide funding and capacity to compensate for Unavoidable Project Mortality. Douglas will provide funding and capacity required to meet the 7% hatchery compensation level necessary to achieve NNI. The Phase I production commitments for juvenile passage losses and initial inundation effects are satisfied by maintaining current production commitments as described in the 1990 Wells Agreement. Upon the completion of Phase I²¹, hatchery production commitments for passage losses will be adjusted based upon Juvenile Project Survival estimates.

The initial estimates of production capacity shall be adjusted in 2013 and every 10 years thereafter to compensate for Unavoidable Project Mortality²². Hatchery production commitments for passage losses will be adjusted periodically based upon the results of Juvenile Project Survival estimates²³. Douglas agrees to operate the hatchery facilities according to the terms of the Hatchery Compensation Plan developed by the Hatchery Committee and the required permits issued by NMFS pursuant to Section 10 of the ESA.

²¹ Phase I survival studies conducted at the Wells Project have documented Juvenile Project Survival for yearling chinook and steelhead at 96.2%. Due to the inability to measure sockeye and subyearling chinook survival, hatchery compensation for these Plan Species will be maximized at 7%.

²² See HCP Agreement sub-Section 8.4.4 Adjustment of Hatchery Compensation – Population Dynamics, page 30.

²³ See HCP Agreement sub-Section 8.4.5 Adjustment of Hatchery Compensation – Survival Studies, page 31.

7. Assurances

In Section 9 of the HCP Agreement, the Parties provide certain assurances with respect to regulatory approvals, project licensing, limitation on reopening, and other matters. First, the Parties agree to release, waive, and discharge Douglas and the signatory power purchasers from claims, demands, obligations, liabilities, and causes of action of any kind concerning the impact of the Project on Plan Species, except for the obligation to provide hatchery compensation for original construction inundation impacts, from the original construction to the date the FERC approves the HCP Agreement. The Parties further agree that upon FERC approval of the HCP Agreement and provided Douglas is in full compliance with its permit, the agreement, and FERC license provisions relating to Plan Species, the parties agree not to institute any action under the ESA, the Federal Power Act (“FPA”), the Fish and Wildlife Coordination Act (“FWCA”), the Pacific Northwest Electric Power Planning and Conservation Act, the Essential Fish Habitat provisions of the Magnuson-Stevens Fishery Conservation and Management Act, or to require additional protection or mitigation for plan species pursuant to Title 77 of the Revised Code of Washington (RCW) which is titled “Fish and Wildlife”.

Second, the Parties agree to support Douglas’s long-term license applications with respect to Plan Species filed with the Commission during the term of the HCP Agreement, provided that Douglas has adhered to the conditions specified in the HCP Agreement. Subject to certain limitations, the HCP Agreement constitutes the Parties’ terms, conditions and recommendations for Plan Species under Sections 10(a), 10(j) and 18 of the FPA and the FWCA. The USFWS and NMFS specifically reserve their authority under section 18 of the FPA, which may be exercised in the event this agreement terminates. However, the HCP does not attempt to bind the Commission in any way in making its decision as to the terms and conditions of any new license that may be issued for the project.

Third, during the term of the HCP Agreement, the Parties will not seek to invoke or rely on any reopener clause in the Project’s license for the purpose of obtaining additional measures for Plan Species, except under limited circumstances detailed in the HCP Agreement.

Fourth, the Parties agree that during the term of the HCP Agreement, they will not advocate for or support additional or different fish protection measures or changes in Project structures or operations other than those set forth in the HCP Agreement. The agreement does not preclude spillway or tailrace modifications; spill; structural modifications to accommodate fish passage facility improvements; and reservoir elevation changes **if all Parties including the District agree.**

8. Endangered Species Act

Section 10 of the HCP Agreement sets forth the requirements for the issuance of permits under Section 10 of the ESA. These permits will authorize operation of the Project and its hatcheries consistent with the HCP Agreement. NMFS has issued Douglas the permits required by Section 10. Those permits are included in this filing as Attachement C and Attachement D.

9. Term of Agreement

The HCP Agreement will remain in effect for a period of 50 years²⁴ and shall become effective upon the completion of all regulatory reviews. The Commission's incorporation of the HCP Agreement (without change) into the Project license in place of the 1990 Wells Settlement Agreement is all that remains for the HCP Agreement to become effective.

10. Termination

The Agreement will terminate automatically: (1) at the end of the 50-year term; (2) if the Commission issues a non-power license for the Project; (3) if the Commission orders removal of the Project; (4) if the Commission orders a drawdown of the Project; or (5) if Douglas withdraws from the HCP Agreement.

The Parties to the HCP Agreement may elect to withdraw from the Agreement when at least twenty-years has elapsed from March 1, 1998, subject to the following conditions: (1) No Net Impact has not been achieved or has been achieved but has not been maintained; or (2) the Project has achieved and maintained No Net Impact, but Plan Species are not rebuilding, and the Project is a significant factor in the failure to rebuild; (3) non-compliance by Douglas; (4) governmental action that is detrimental to the HCP Agreement, because it materially alters or is contrary to any of the terms of the HCP Agreement; (5) impossibility; (6) revocation of the permits issued by NMFS under Section 10 of the ESA; or (7) another Party to the HCP Agreement withdraws, provided proper notice is given. In addition, NMFS and USFWS may withdraw to seek drawdown, non-power operations, or other actions if No Net Impact is not achieved by 2018.

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²⁴ See *infra* Part I.B.10.