Susitna-Watana Hydroelectric Project Document ARLIS Uniform Cover Page

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Susitna-Watana Hydroelectric Project (FERC No. 14241)

Study of Fish Passage Barriers in the Middle and Upper Susitna River and Susitna Tributaries Study Plan Section 9.12

Initial Study Report

Part B: Supplemental Information (and Errata) to Part A (February 3, 2014 Draft Initial Study Report)

Prepared for

Alaska Energy Authority



Prepared by

R2 Resource Consultants, Inc.

June 2014

PART B: SUPPLEMENTAL INFORMATION (AND ERRATA) TO PART A (FEBRUARY 3, 2014 DRAFT INITIAL STUDY REPORT)

Part A Reference	Description
Section 4.1	The fish species identification section was revised based upon input from
Page 5	licensing participants during a Technical Work Group meeting on
Second paragraph	March 19, 2014. Details of the consultation and suggested species to be added to the target species list are detailed in the following paragraph to replace the second paragraph of page 5:
	AEA sought input from the Instream Flow Technical Work Group to finalize target species and life stages. During a Technical Team meeting on March 19, 2014, team members, licensing participants, and AEA discussed species and lifestage use of off-channel habitats, seasonal movement into and out of off-channel habitats, and microhabitat (depth and velocity). Information shared during this discussion was used to refine the target species selection. AEA proposed a total of nine species, including five salmon species as well as four resident species, Arctic Grayling, burbot, Dolly Varden, and rainbow trout (Table 4.1-2). During the consultation meeting, licensing participants identified additional priority species, including Arctic lamprey, Bering cisco, eulachon, and humpback Whitefish. It was also suggested that AEA consider how project effects could prevent movement of invasive northern pike between tributaries. From these suggestions, AEA has created a preliminary target species list with the addition of Arctic lamprey, and humpback whitefish (Table 4.1-2). Bering cisco, eulachon and northern pike were not added as target species as their distribution is limited to the Lower River, which is outside of the study area for this study.
Section 4.2	Depth barrier criteria have been discussed with licensing participants and
Page 6	final depth criteria for target species will be determined with consideration of literature values in 2014.
First paragraph	or meranace varies in 2011.
Section 4.2.2	Leaping criteria for anadromous salmon species as outlined in Table 4.2-1
Page 6	were finalized with input from licensing participants.
Second paragraph	
Section 4.2.3	Upstream velocity criteria have been discussed with licensing participants
Page 7	and final velocity criteria of will be determined with consideration of literature values in 2014.
First paragraph	interature values in 2014.
Section 4.2.4	Downstream velocity criteria have been discussed with licensing
Page 7	participants and final downstream passage criteria of will be determined with consideration of literature values in 2014.
First paragraph	with consideration of incrature values in 2014.

Section 6 Page 13 First paragraph	The target species list has been identified with input from licensing participants, leaping criteria have been finalized, and a final set of depth and velocity passage criteria will be determined with consideration of established literature values.
Table 4.1-2 Page 17	Table 4.1-2 added to summarize species list development.

Table 4.1-2. AEA proposed species list, additional species suggested by licensing participants, and preliminary species following consultation during fisheries technical meeting on March Additional Species Suggested **AEA Proposed Species List Species List Following Consultation** by Licensing Participants Chinook salmon Arctic lamprey Chinook salmon Chum salmon Bering cisco¹ Chum salmon Coho salmon Eulachon1 Coho salmon Pink salmon Pink salmon Northern pike1 Sockeye salmon Humpback whitefish Sockeye salmon Arctic grayling Arctic grayling Burbot Arctic lamprey Dolly Varden Burbot Rainbow trout Dolly Varden Humpback whitefish Rainbow trout

¹ Species not added due to absence from study area