

NECHAKO FISHERIES CONSERVATION PROGRAM

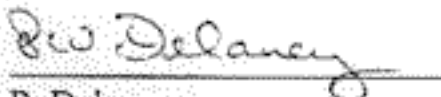
A Joint Program of the Government of Canada, Alcan and the Province of British Columbia


NECHAKO FISHERIES CONSERVATION PROGRAM TECHNICAL COMMITTEE DECISION RECORD

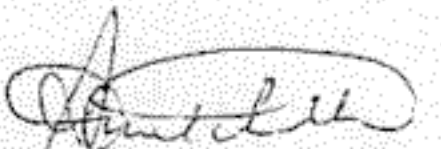
DATE: April 15, 1998


Decision Record (1998/99-1)

1. The Technical Committee has reviewed the flow records for the Nechako River at Cheslatta Falls and the forecasted inflow information for the Nechako Reservoir. Releases from the Nechako Reservoir have been 51 m³/s over the winter and have continued to this date. Given that the releases are currently higher than normal for the spring period (51 m³/s vs 49.0 m³/s) and that the Technical Committee is of the opinion that emerging juvenile chinook should not experience a decrease in water levels during the early rearing period, the Technical Committee reached a decision to direct Alcan to continue to release a flow of 51 m³/s from the Skins lake Spillway until the end of June, 1998.


P. Delaney


D. Hay


A.C. Mitchell


K. Conlin

NECHAKO FISHERIES CONSERVATION PROGRAM

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STEERING COMMITTEE MEETING (98/99-1)

DATE: April 29, 1998

PLACE: Department of Fisheries and Oceans
Regional Director General's Boardroom
555 W. Hastings Street, Vancouver, B.C.

ATTENDEES:

Steering Committee

H. van der Toorn (Alcan Aluminum Ltd.)
J. Walker (Provincial Crown)
L. Tousignant (Federal Crown)

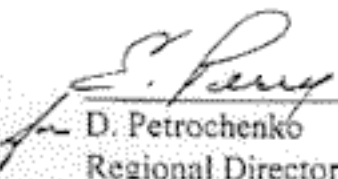
Technical Committee


A. C. Mitchell (Alcan Aluminum Ltd.)
K. Conlin (Provincial Crown)
P. Delaney (Federal Crown)
D. Hay (Independent Member)


W.O. Rublee (Alcan Aluminum Ltd.)
J. Heinonen (Federal Crown)
D. Bouillon (Alcan Aluminum Ltd.)
R. Penner (Provincial Crown)

Decision Record

1. The Steering Committee approves the 1998/99 program and budget as set out in the attached table.


D. Petrochenko
Regional Director General
Department of Fisheries & Oceans


Jim H.C. Walker
Special Advisor - Land Use
Ministry of Environment, Lands and Parks


Han van der Toorn
Director of Secal
Maison Alcan

**TABLE 1 NECHAKO FISHERIES CONSERVATION PROGRAM
PROPOSED 1998/1999 PROGRAM**

REMEDIAL MEASURES		DAYS	EXPENSES
RM98-1	Summer Temperature Management	104	\$15,700
RM98-2	Instream Habitat Modification	33	\$23,484
RM98-3	Flow Control	15	\$110
SUB TOTAL		152	\$39,294
MONITORING			
M98-1	Enumeration	322	\$78,249
M98-2	Carcass Recovery	102	\$14,747
M98-3	Juvenile Outmigration	536	\$67,562
M98-4	Physical Data Collection	59	\$10,800
M98-5	Fry Emergence	170	\$17,346
M98-6	Evaluation Framework - 10 year review	90	\$25,000
SUB TOTAL		1279	\$213,704
APPLIED RESEARCH			
AR98-2	Ecology of Juvenile Chinook	40	\$5,000
SUB TOTAL		40	\$5,000
TOTAL		1471	\$257,998
COMMITTEE OPERATIONS*		**	\$96,592

* Includes Independent Member, Annual Meeting and Report, Technical Report Production and Committee Meetings

** As required by each party

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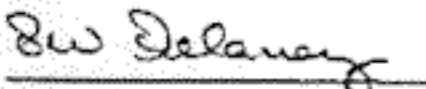
NECHAKO FISHERIES CONSERVATION PROGRAM TECHNICAL COMMITTEE DECISION RECORD

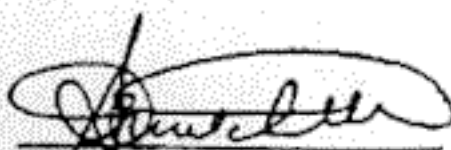
DATE: July 8, 1998

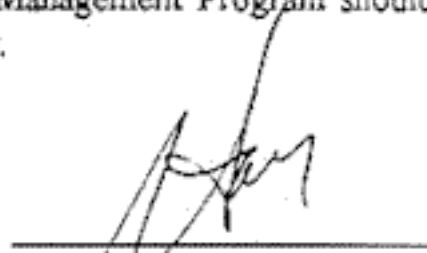
Decision Record (1998/99-2)

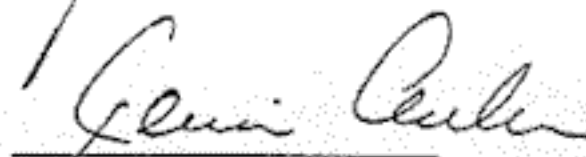
2. The Technical Committee has been made aware of the following:
- Flows in the Nechako River below the Nautley River confluence are lower than normal this year due to the lower than normal snow pack in the Nadina-Francois, Stuart and local drainages.
 - Weather conditions during June and early July, along with the lower than normal river flows, have led to water temperatures in the Nechako River being higher than normal for this time of year.
 - The Department of Fisheries and Oceans (DFO) has informed the Technical Committee that the early Stuart sockeye run has entered the Fraser River approximately one week early this year and should be at the Nechako/Stuart confluence by approximately the 11th of July. As well, DFO has indicated that Fraser River flows at Hope are near historical low levels and water temperatures, in the Nechako below the Stuart River and in the Fraser River are higher than normal.

Given the above, the Technical Committee reached a decision that, for the summer of 1998, the Summer Water Temperature Management Program should start on July 6 rather than on July 11 as is customary.


P. Delaney


A.C. Mitchell


D. Hay


K. Conlin

Date: August 18, 1998

Project: 2660-07; Nechako River Flow Control

Annual Average Flow Rate = 36.8 m³/s (as per the 1987 Settlement Agreement)

TIME PERIOD (JD)	TIME (Days)	FLOW (m ³ /s)	Volume (m ³ /s*Days)
Apr01 (91) to Jun30 (181)	91	51.0	4641.0
Jul01 (182) to Aug17 (229)	48	49.0	2352.0
Aug18 (230) to Sep01 (244)	15	14.2	213.0
Sep02 (245) to Mar 31 (90)	211	X	211X
	365		7,206.0 + 211X

Annual Volume = 36.8*(365) = 13,432 m³/s*Days = 7,206.0 + 211X
 X = 29.5 m³/s (1,042 cfs)

The Skins Lake Spillway release required for the 1998 fall spawning flows is 29.5 m³/s (1,042 cfs)

NECHAKO FISHERIES CONSERVATION PROGRAM

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NECHAKO RIVER TECHNICAL COMMITTEE

DATE: August 21, 1998

PLACE: Hay and Company
1 W. 7th Ave.
Vancouver, B.C.

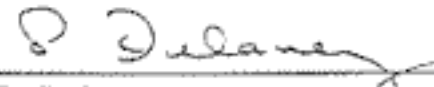
Attendees: D. Hay (Independent Member)
A.C. Mitchell (Alcan Aluminium Ltd.)
P. Delaney (Federal Crown)
K. Conlin (Provincial Crown)

W.O. Rublee (Alcan Aluminium Ltd.)
J. Hwang (Federal Crown)
D. Bouillon (Alcan Aluminium Ltd.)

Decision Record (1998/99-3)


3. The Technical Committee has been made aware of the following:
- releases from the Skins Lake Spillway made as part of the Summer Temperature Management Program (STMP) were decreased to 14.15 m³/s late on August 17. The purpose of this decrease in release was to initiate the decrease in flows in the Nechako River below Cheslatta Falls from the STMP base flows to the fall chinook spawning flows.
 - the predicted recession of the flow in the Nechako River at Cheslatta Falls will require the Skins Lake Spillway release to be increased on September 2 to ensure that the Nechako River flow does not drop below the fall spawning flow.
 - As noted on the attached calculation sheet, the minimum flow to be released from the Skins Lake Spillway from September 2 to March 31 to ensure release of the Annual Water Allocation is 29.5 m³/s.

Given the above, the Technical Committee reached a decision that Alcan be directed to maintain the Skins Lake Spillway release at or above 29.5 m³/s from September 2, 1998 to March 31, 1999.


P. Delaney


D. Hay


A.C. Mitchell


K. Conlin

NECHAKO FISHERIES CONSERVATION PROGRAM

A Joint Program of the Government of Canada, Alcan and the Province of British Columbia

NECHAKO RIVER TECHNICAL COMMITTEE

DATE: January 15, 1999

PLACE: Department of Fisheries and Oceans
555 West Hastings St.
Vancouver, B.C.

Attendees: D. Hay (Independent Member)
D. Bouillon (Alcan Aluminium Ltd.)
P. Delaney (Federal Crown)
K. Conlin (Provincial Crown)

A.C. Mitchell (Alcan Aluminium Ltd.)
J. Hwang (Federal Crown)
W.O. Rublee (Alcan Aluminium Ltd.)

Decision Record (1998/99-4)

4. In response to a proposal from Alcan, the Technical Committee has reached a decision that Alcan be permitted to adopt the proposed gate operating protocol until March 31, 1999 provided:

- the average Skins Lake Spillway release over this period (September 2, 1998 to March 31, 1999) is at or above 29.5 m³/s;
- the minimum release from the reservoir is not less than 29.0 m³/s;
- the releases be managed in a manner to achieve release from the Nechako Reservoir of the annual water allocation without having to spike releases in the last part of the water year; and,
- the running average of the release be calculated and regularly reported (twice monthly) to the Technical Committee.


P. Delaney


D. Bouillon


D. Hay


K. Conlin