

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER TECHNICAL MEETING (89-01)

DATE: Friday, April 7, 1989

TIME: 1330 hours

PLACE: Envirocon Pacific Limited  
#205-2250 Boundary Road  
Burnaby, B.C.

### ATTENDEES:

D.L. Deans (Federal Crown)  
D. Hay (Independent Member)  
P.A. Slaney (Provincial Crown)  
S.P. Blachut (Federal Crown)  
J.S. Mathers (Federal Crown)  
W.O. Rublee (Alcan Aluminium Ltd.)

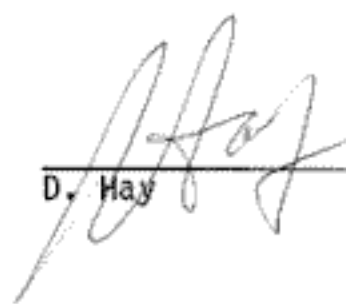

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### DECISION RECORD

1. Alcan will be instructed to change the Skins lake Spillway gate on April 15 to release 48.27 m<sup>3</sup>/s.



D.L. Deans

  
D. Hay  
B.W. Jenkins  
for P.A. Slaney

# NECHAKO FISHERIES CONSERVATION PROGRAM

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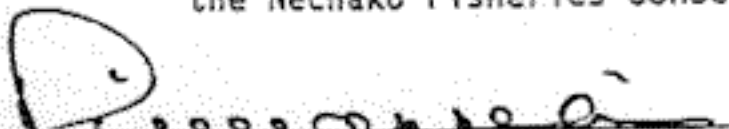
## NECHAKO RIVER STEERING COMMITTEE (SC88-1)

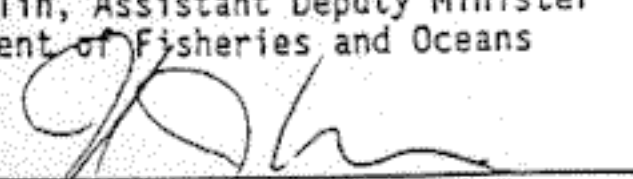
DATE: Wednesday, April 12, 1989  
TIME: 0900 hours  
PLACE: By telephone conference call

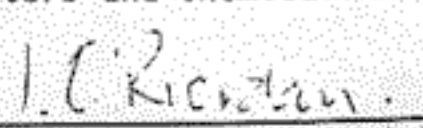
ATTENDEES: P. Asselin (Federal Crown)  
D.L. Deans (Federal Crown)  
  
W.J. Rich (Alcan Aluminium Ltd.)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
  
J. O'Riordan (Provincial Crown)  
P.A. Slaney (Provincial Crown)  
D. Roberts (Provincial Crown)  
  
D. Hay (External Member)

### DECISION RECORD

1. The procedures to deal with provincial approval of instream works under the Settlement Agreement are as follows:
  - A. Applications for instream work (monitoring and instream remedial measures) will be submitted to the Regional Water Manager under the letterhead of the Nechako Fisheries Conservation Program.
  - B. Applications will be reviewed under Section 7 of the Water Act, and the Regional Water Manager or the Comptroller of Water Rights will grant the approval and/or advise the Committee of existing prior rights that may be affected by the proposed works.
  - C. Alcan Aluminium Ltd. is considered the owner of the instream works.
  - D. All Approvals will be issued in the name of Alcan Aluminium Ltd. c/o the Nechako Fisheries Conservation Program.

  
P. Asselin, Assistant Deputy Minister  
Department of Fisheries and Oceans

  
W.J. Rich, Vice President for B.C.  
Alcan Smelters and Chemicals Limited

  
J. O'Riordan, Acting Assistant Deputy Minister  
Ministry of Environment

# NECHAKO FISHERIES CONSERVATION PROGRAM

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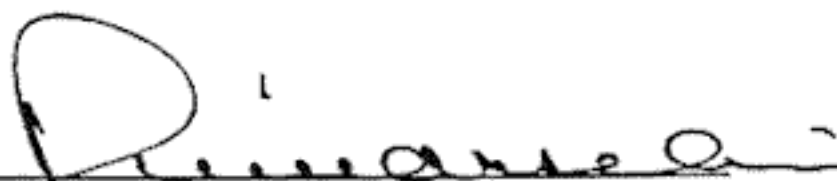
## NECHAKO RIVER STEERING COMMITTEE (SC88-1)

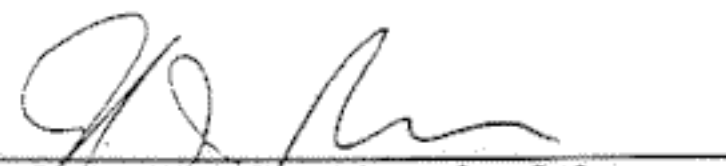
DATE: Wednesday, April 12, 1989  
TIME: 0900 hours  
PLACE: By telephone conference call


ATTENDEES: P. Asselin (Federal Crown)  
D.L. Deans (Federal Crown)  
  
W.J. Rich (Alcan Aluminium Ltd.)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
  
J. O'Riordan (Provincial Crown)  
P.A. Slaney (Provincial Crown)  
D. Roberts (Provincial Crown)  
  
D. Hay (External Member)

### DECISION RECORD

2. The Steering Committee approves the 1988/89 Annual Report, and the 1989/90 Proposed Program, as presented by the Technical Committee.

  
P. Asselin, Assistant Deputy Minister  
Department of Fisheries and Oceans

  
W.J. Rich, Vice President for B.C.  
Alcan Smelters and Chemicals Limited

  
J. O'Riordan, Acting Assistant Deputy Minister  
Ministry of Environment

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER STEERING COMMITTEE

DATE: April 28, 1989  
PLACE: By Correspondence  
PARTICIPANTS: P. Asselin (Federal Crown)  
W.J. Rich (Alcan Aluminium Ltd.)  
J. O'Riordan (Provincial Crown)

### DECISION RECORD

4. Due to an additional allocation of \$90,000 by the Department of Fisheries and Oceans, four additional projects have been added to the 1989/90 program:

Monitoring #6 - Fry Emergence Indexing  
Monitoring #7 - Substrate Quality and Composition  
Applied Research #2 - Chinook Production Model  
Applied Research #3 - Incubation Environment Flume Analysis



P. Asselin, Asst. Dept. Minister  
Dept. of Fisheries and Oceans



W.J. Rich, Vice President for B.C.  
Alcan Aluminium Ltd.



J. O'Riordan, Acting Asst. Dept. Minister  
Ministry of Environment

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER TECHNICAL COMMITTEE MEETING (89-3)

DATE: Thursday, May 11, 1989

PLACE: Hay & Company  
One West 7th Avenue  
Vancouver, B.C.

ATTENDEES: D.L. Deans (Federal Crown)  
D. Hay (Independent Member)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
P.A. Slaney ( Provincial Crown)

S.P. Blachut (Federal Crown)  
J.S. Mathers (Federal Crown)  
W.O. Rublee (Alcan Aluminium Ltd.)

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### Decision Record

2. The Technical Committee's understanding of temperature criteria for the Nechako River is as follows:
  - (a) Conservation and protection of chinook and sockeye salmon resources of the Nechako River is specified in the Settlement Agreement (clause G, page 2).
  - (b) The Technical Committee has the mandate to manage the Annual Water Allocation including flows that are required for cooling purposes (Settlement Agreement 2.1 A(c) i and 2.1B(a) page 5).
  - (c) Flows required for cooling purposes are determined by the Computer Models and Protocol (Envirocon Technical Memoranda 1957/2, 1957/3 and 1941/C). Flows are released when 2 of 3 trends show an increase in water temperature in the Nechako River above the Stuart River, and these trends show that potentially the water temperature could exceed 19.4-C (Envirocon Technical Memorandum 1941/C).
  - (d) Neither the Settlement Agreement nor the Strangway Report explicitly define the source temperature downstream of Kenney Dam or the temperature criteria during the cooling flow period.

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER TECHNICAL COMMITTEE MEETING (89-8)

**DATE:** Thursday, September 7, 1989

**PLACE:** Triton Environmental Consultants Ltd.  
205 - 2250 Boundary Road  
Burnaby, B.C.

**ATTENDEES:** D. L. Deans (Federal Crown)  
D. Hay (Independent Member)  
B. W. Jenkins (Alcan Aluminium Ltd.)  
P. A. Slaney (Provincial Crown)

S. P. Blachut (Federal Crown)  
J. S. Mathers (Federal Crown)  
D. Roberts (Provincial Crown)

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### Decision Record

4. Alcan will be advised that release of flood flows from the proposed Kenney Dam Release Facility is, in principle, acceptable provided that the Cheslatta Fan channel is designed to carry these flows. Notwithstanding, the Technical Committee requires prior notification of such releases unless otherwise directed by the Water Comptroller as specified in item 2.1, B, (b), iv of the Settlement Agreement. Further, the Technical Committee requires that approved reservoir operating procedures be established prior to implementation of the Long Term Annual Water Allocation.



D. L. Deans



B. W. Jenkins



D. Hay



P. A. Slaney

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER TECHNICAL COMMITTEE MEETING (89-8)

DATE: Thursday, September 7, 1989

PLACE: Triton Environmental Consultants Ltd.  
#205 - 2250 Boundary Road  
Burnaby, B.C.

ATTENDEES: D.L. Deans (Federal Crown)  
D. Hay (Independent Member)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
P.A. Slaney (Provincial Crown)

S.P. Blachut (Federal Crown)  
J.S. Mathers (Federal Crown)  
D. Roberts (Provincial Crown)

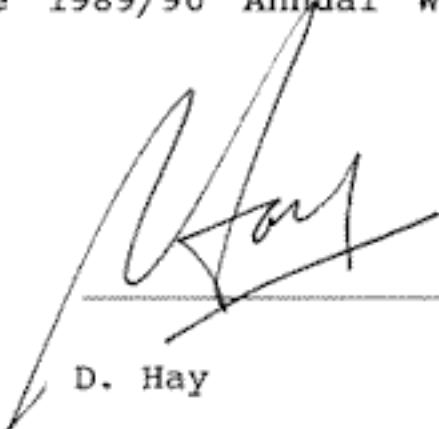
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### Decision Record

3. Alcan will be instructed to maintain the Skins Lake Spillway release at 32.6 m<sup>3</sup>/s until March 31, 1990. This decision was based on the understanding that this release will fully utilize the water remaining in the 1989/90 Annual Water Allocation.



D.L. Deans



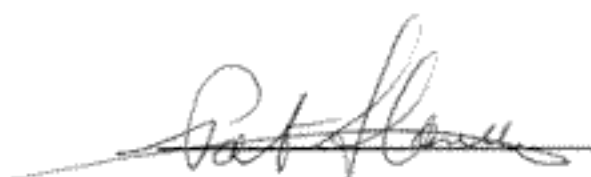
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D. Hay



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B.W. Jenkins



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P.A. Slaney

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER TECHNICAL COMMITTEE MEETING (89-17)

DATE: Thursday, February 8, 1990

PLACE: Triton Environmental Consultants Ltd.  
#205 - 2250 Boundary Road  
Burnaby, B.C.

ATTENDEES: D.L. Deans (Federal Crown)  
D. Hay (Independent Member)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
P.A. Slaney ( Provincial Crown)

J.S. Mathers (Federal Crown)  
W.O. Rublee (Alcan Aluminium Ltd.)

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### Decision Record

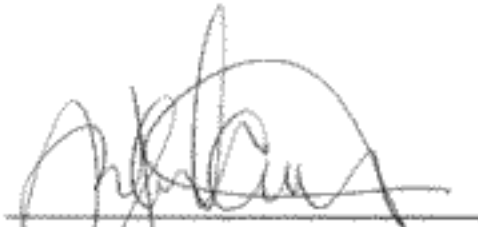
5. The Technical Committee's position on Water Licences is as follows:
- (a) The Annual Water Allocation is assigned to the Federal Crown by the Provincial Crown for fisheries purposes under the terms of the Settlement Agreement [clause 2.2 B (b)].
  - (b) No Water Licences should be issued for the Nechako River from Kenney Dam to the Nautley River confluence except for domestic use.
  - (c) No Water Licences should be issued for tributaries to the Nechako River unless it is demonstrated that there would be no adverse affect on chinook salmon.



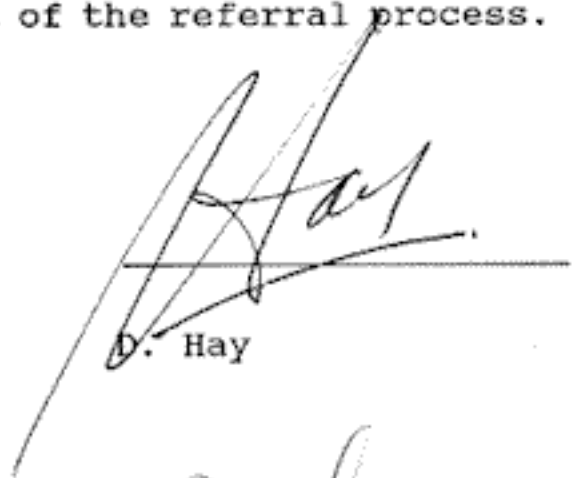
(d) The Provincial Water Management Branch will advise the Technical Committee of all Water Licence applications for the Nechako River and its tributaries. Any comments that the Technical Committee may have will be provided by the DFO and MOE members to their respective regional staff. These comments will be transmitted to the Water Management Branch by regional staff as part of the referral process.



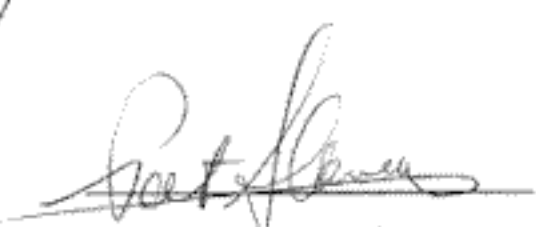
D.L. Deans



B.W. Jenkins



D. Hay



P.A. Slaney

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER STEERING COMMITTEE MEETING (89-1)

DATE: Thursday, March 15, 1990

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

ATTENDEES: P.S. Chamut (Federal Crown)  
W.J. Rich (Alcan Aluminium Ltd.)  
J. O'Riordan (Provincial Crown)

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### Decision Record

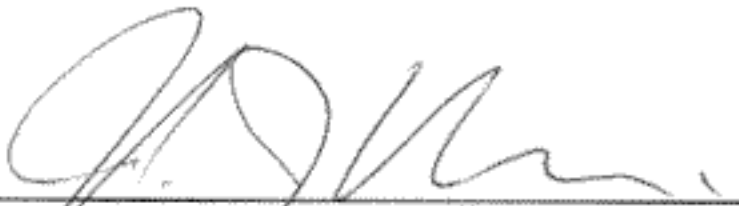
3. The Steering Committee's position on Water Licences is as follows:
- (a) The Annual Water Allocation is assigned to the Federal Crown by the Provincial Crown for fisheries purposes under the terms of the Settlement Agreement [clause 2.2 B (b)].
  - (b) No Water Licences should be issued for additional water uses on the Nechako River and its tributaries from Kenney Dam to the Nautley River confluence unless it is demonstrated that there would be no adverse effect on chinook salmon.

- (c) The Provincial Water Management Branch will advise the Technical Committee of all Water Licence applications for the Nechako River and its tributaries. Any comments that the Technical Committee may have will be provided by the DFO and MOE members to their respective regional staff. These comments will be transmitted to the Water Management Branch by regional staff as part of the referral process.



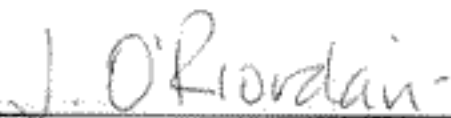
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P.S. Chamut, Director General, Pacific Region  
Department of Fisheries and Oceans



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W.J. Rich, Vice President for British Columbia  
Alcan Aluminium Ltd.



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J. O'Riordan, Assistant Deputy Minister  
B.C. Ministry of Environment

# NECHAKO FISHERIES CONSERVATION PROGRAM

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## NECHAKO RIVER STEERING COMMITTEE MEETING (89-1)

DATE: Thursday, March 15, 1990

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

ATTENDEES: P.S. Chamut (Federal Crown)  
W.J. Rich (Alcan Aluminium Ltd.)  
J. O'Riordan (Provincial Crown)

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### Decision Record

2. The Steering Committee agrees that the following guidelines for the Independent Technical Committee Member will ensure that the potential for perceived conflict of interest is minimized:
- (a) The Independent Member's firm may engage in sole source contract work for the Nechako Fisheries Conservation Program (NFCP) only if it can be demonstrated annually by following a tendering process that no other suitable firms are interested in the job. Letters of non-interest from other qualified firms must be obtained and kept on file. The Independent Member's firm cannot participate in any contracts put out for competitive tender.
  - (b) The Independent Member's firm may become engaged in non-NFCP contracts with Alcan, the Government of Canada, or the Province of British Columbia providing that:
    - i) there is Technical Committee consensus in advance on potential consulting contracts related to the Kemano Completion Project and the nature of the role to be assumed by the Independent Member;

- ii) the Independent Member's firm is not involved in any projects that come before the Technical Committee for a decision.



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P.S. Chamut, Director General, Pacific Region  
Department of Fisheries and Oceans



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W.J. Rich, Vice President for British Columbia  
Alcan Aluminium Ltd.



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J. O'Riordan, Assistant Deputy Minister  
B.C. Ministry of Environment

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER STEERING COMMITTEE MEETING (89-1)

DATE: Thursday, March 15, 1990

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

ATTENDEES: P.S. Chamut (Federal Crown)  
W.J. Rich (Alcan Aluminium Ltd.)  
J. O'Riordan (Provincial Crown)

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### Decision Record

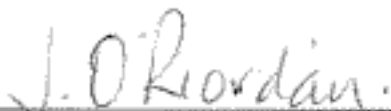
1. The Steering Committee approves the 1990/91 program and budget as presented by the Technical Committee.



P.S. Chamut, Director General, Pacific Region  
Department of Fisheries and Oceans



W.J. Rich, Vice President for British Columbia  
Alcan Aluminium Ltd.

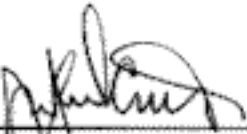


J. O'Riordan, Assistant Deputy Minister  
B.C. Ministry of Environment

- (e) The Terms of Reference for the Strangway Working Group state in item 2.1 that "flows in the Nechako River at Cheslatta Falls will be equivalent to Alcan's fish and other use flows...". Therefore, the assumptions used by Envirocon to develop this flow regime define the criteria for temperatures in the Nechako River.
- (f) The temperature criteria for the Nechako River above the Stuart River confluence during 10 July to 20 August are: "(i) to eliminate all occurrences of mean daily water temperatures above 21.7°C, and (ii) to reduce occurrences of mean daily water temperatures above 20.0°C when compared to the historical data for the period 1958 to 1982" (Envirocon, Volume 21/Section B p. 80). The historic exceedance of 20.0°C for the period 1958 - 1982 was 3.88 days/year (Envirocon Volume 21/Section B p.84).
- (g) The source water temperature at the Kenney Dam Release Facility will not be less than 10°C.




D.L. Deans



B.W. Jenkins



D. Hay



P.A. Slaney

# NECHAKO FISHERIES CONSERVATION PROGRAM

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

## NECHAKO RIVER TECHNICAL COMMITTEE MEETING (89-22)

DATE: Thursday, March 29, 1990

PLACE: Triton Environmental Consultants Ltd.  
#205 - 2250 Boundary Road  
Burnaby, B.C.

ATTENDEES: D.L. Deans (Federal Crown)  
D. Hay (Independent Member)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
P.A. Slaney (Provincial Crown)

J.S. Mathers (Federal Crown)  
W.O. Rublee (Alcan Aluminium Ltd.)

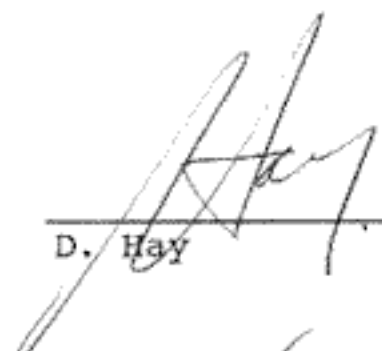
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### Decision Record

7. Alcan will be instructed to increase the Skins Lake Spillway release to  $49.0 \text{ m}^3/\text{s}$  on April 1, 1990. This release plus additional flows that are required for cooling or flood control purposes will be maintained until August 17, 1990. Alcan will then be instructed to release  $29.3 \text{ m}^3/\text{s}$  from the Skins Lake Spillway during the period August 18, 1990 to March 31, 1991. These releases will achieve the short term Annual Water Allocation of  $36.8 \text{ m}^3/\text{s}$  from Skins Lake Spillway.



D.L. Deans

  
D. Hay  
B.W. Jenkins  
P.A. Slaney



# NECHAKO FISHERIES CONSERVATION PROGRAM

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## NECHAKO RIVER TECHNICAL COMMITTEE MEETING (89-22)

DATE: Thursday, March 29, 1990

PLACE: Triton Environmental Consultants Ltd.  
#205 - 2250 Boundary Road  
Burnaby, B.C.

ATTENDEES: D.L. Deans (Federal Crown)  
D. Hay (Independent Member)  
B.W. Jenkins (Alcan Aluminium Ltd.)  
P.A. Slaney ( Provincial Crown)

J.S. Mathers (Federal Crown)  
W.O. Rublee (Alcan Aluminium Ltd.)

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### Decision Record

6. As the result of a forced spill for flood control purposes, it will not be possible to install a fence during the period when smolts are migrating downstream. The Technical Committee, therefore, approves an amendment to the Terms of Reference for Project M90-3 Juvenile Outmigration Monitoring to substitute a beach seining/electrofishing sampling program for trapping during this period.



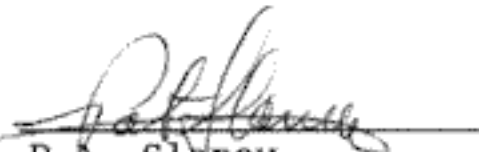
D.L. Deans



D. Hay



B.W. Jenkins



P.A. Slaney