

Appendix 4

South Milton Hydro Project Approved Flow Management Plan with Minimum Flow Discharge Calculations

ORIGINAL



NATIONAL
HYDRO

RECEIVED
FEDERAL ENERGY
REGULATORY COMMISSION

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RECEIVED
FEDERAL ENERGY
REGULATORY COMMISSION

January 21, 1993

Secretary
Federal Energy Regulatory Commission
825 N. Capital Street, N. E.
Washington, D. C. 20426

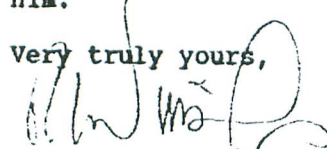
RE: South Milton Project
SFR Hydro Corp.
Project No. 3984-001-NH

Dear Sir:

In accordance with your order of November 24, 1992, enclosed is the original and eight copies of our plan to monitor flow at the South Milton project.

Our letter of December 10, 1992 to the agencies requesting their comments is also attached. Only the USFWS responded and their letter is enclosed. Bill Ingham of the New Hampshire Fish & Game Dept. confirmed by phone that the plan is acceptable to him.

Very truly yours,


Robert L. Winship
President, National Hydro
for SFR Hydro Corp.

RLW/co

Enclosures

a:\wp51\RLW3-10

cc: NY/ra.

FERRO - DOCKETED

JAN 25 1993

9302010154



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Offices
400 Ralph Pill Marketplace
22 Bridge Street, Unit #1
Concord, New Hampshire 03301-4901

REF: FERC #3984

January 8, 1993

Mr. Robert L. Winship
National Hydro
99 Bedford Street
Boston, Massachusetts 02111-2217

Dear Mr. Winship:

We have reviewed and concur with your proposed plan for monitoring flow releases at the South Milton Hydroelectric Project, located on the Salmon Falls River on the Maine/New Hampshire border. We note that the plan calls for monitoring water levels in the headpond as well as discharges from the powerhouse, for the purposes of demonstrating that the project will be operating in a run-of-river mode. By doing so, you will be in compliance with the minimum flow requirement of 58 cfs or inflow to the project area, whichever is less.

Thank you for the opportunity to review this instream flow monitoring plan. If you have any questions, please contact Gordon Russell at (207) 827-5938.

Sincerely yours,

A handwritten signature in cursive script that reads "Gordon E. Beckett".

Gordon E. Beckett
Supervisor
New England Field Offices



NATIONAL
HYDRO

December 10, 1992

Mr. William C. Ingham
New Hampshire Fish & Game Dept.
Two Hazen Drive
Concord, New Hampshire 03301

Certified/Return Receipt

Mr. Gordon Russell
U. S. Fish & Wildlife Service
1033 So. Main Street
Old Town, Maine 04468

Certified/Return Receipt

Mr. Robert Hammond
U. S. Geological Survey
525 Clinton Street
Bow, New Hampshire 03304

Certified/Return Receipt

RE: South Milton Project
SFR Hydro Corp.
FERC No. 3984-001-NH

Gentlemen:

Enclosed is a copy of the Compliance Order issued by FERC on November 24, 1992 relating to monitoring of releases from the project. Also enclosed is our plan to meet the requirements of the order.

The order requires that our plan to be filed with the FERC contain your agencies' comments. Please provide those comments by January 18, 1993 so that my response to the FERC can be timely.

If you have any questions or wish to discuss this plan, please call.

Very truly yours,

Robert L. Winship
President

RLW/co

Enclosures

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Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

Mr. Robert Hammond
U. S. Geological Survey
525 Clinton Street
Bow, NH 03304

4a. Article Number
P 095 996 859

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
12-14-92

5. Signature (Addressee)
Robert Hammond

6. Signature (Agent)
Robert Hammond

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

PS Form 3811, December 1991 • U.S.G.P.O.: 1992-307-530 DOMESTIC RETURN RECEIPT

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

Mr. Gordon Russell
U. S. Fish & Wildlife Svc.
1033 So. Main Street
Old Town, ME 04468

4a. Article Number
P 095 996 858

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
12-14-92

5. Signature (Addressee)
Gordon Russell

6. Signature (Agent)
Heather Draper

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

PS Form 3811, December 1991 • U.S.G.P.O.: 1992-307-530 DOMESTIC RETURN RECEIPT

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- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

William C. Ingham
N. H. Fish & Game Dept.
Two Hazen Drive
Concord, NH 03301

4a. Article Number
P 095 996 857

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
12/14/92

5. Signature (Addressee)
William C. Ingham

6. Signature (Agent)
William C. Ingham

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

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December 10, 1992

Project No. 3984-001-NH
South Milton Project
SFR Hydro Corp.

PLAN FOR MONITORING RELEASE FROM THE PROJECT

This plan is presented in accordance with the Compliance Order issued by the FERC on November 24, 1992.

PURPOSE:

The purpose of the plan is to demonstrate compliance with Article 2 of the FERC exemption for the project. Specifically, this plan describes how the project manager shall demonstrate that releases from the project are at least 58 cfs, or when inflows are less than 58 cfs, that outflows shall be no less than inflows.

METHODOLOGY:

The purpose will be accomplished by continuous monitoring of the pond level behind the dam. A pressure transducer will be installed at the pond and its signal will be monitored by a computer located in the powerhouse. Pond elevation will be recorded every hour.

A printout showing hourly production from the plant is provided by PSNH, the power purchaser.

The production data, along with the pond level data, will demonstrate that the inflows to the reservoir are discharged from the project. This conclusion can be drawn since the pond is very small (about three acres), the normal pond level is about 8 inches below the top of the stop logs, and inflows must pass over the dam or through the turbine. There is effectively no free storage in the reservoir and inflows must therefore equal outflows if the pond is held at a constant elevation.

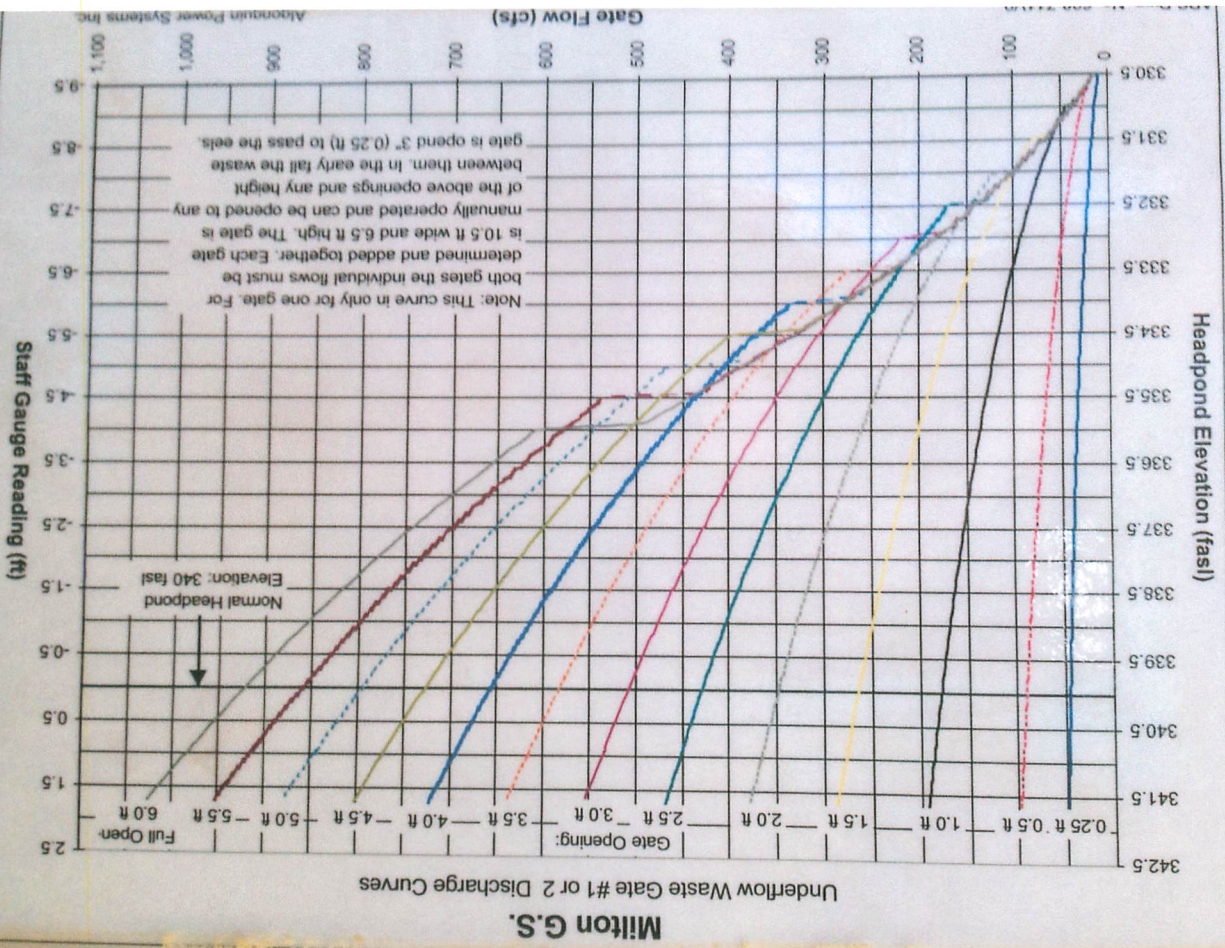
SCHEDULE FOR IMPLEMENTING THE PLAN:

1. The computer system has been delivered.

2. Software will be written by August 1, 1993.
3. The transducer, wiring to the dam (about 3800 feet), and the computer will be installed by September 15, 1993.
4. The system will be operational by October 30, 1993.
5. The results of monitoring will be available for reporting to the agencies by January 15, 1994.

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SOUTH MILTON HYDRO WASTE GATE DISCHARGE CURVE



SOUTH MILTON HYDRO STOP LOG DISCHARGE CURVE

