

**96 FERC ¶ 62,097**UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION

Central Vermont Public Service Corporation

Project No. 2731-020  
VermontORDER ISSUING NEW LICENSE  
(Major Project)  
(August 1, 2001)

## INTRODUCTION

On May 27, 1998, Central Vermont Public Service Corporation (CVPS) filed an application for a new license under Sections 15 and 4(e) of the Federal Power Act (FPA)<sup>1</sup> for the continued operation and maintenance of the 3-megawatt (MW) Weybridge Hydroelectric Project No. 2731, located on Otter Creek in the towns of Weybridge and New Haven and in the county of Addison, Vermont.<sup>2</sup> The project does not occupy any federal lands.

The Commission issued the original license for the Weybridge Project to CVPS on May 12, 1980, effective January 1, 1951.<sup>3</sup> The license expired on May 12, 2000. CVPS proposes no change in the project's current capacity. For the reasons discussed below, I will issue a new license to CVPS for the Weybridge Project No. 2731.

## BACKGROUND

On January 25, 1999, the Commission issued a public notice that the Weybridge Project was ready for environmental analysis and solicited comments, recommendations, and final terms and conditions<sup>4</sup>. On April 19, 1999, the Vermont Agency of Natural Resources (VANR) filed a motion to intervene (dated April 13, 1999). No party objected

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<sup>1</sup>16 U.S.C. §797(e), 808.

<sup>2</sup>Otter Creek, a tributary to Lake Champlain, is a navigable waterway of the United States to a point upstream from the Center Rutland Project (FERC Project No.2445), located in Rutland County. See 34 FPC 540, 541 (1965). The Weybridge Project is located at river mile 19.5 and within the navigable portion of Otter Creek.

<sup>3</sup>11 FERC ¶ 62,102 (1980).

<sup>4</sup>64 F.R. 4645 (1999).

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to the issuance of this license. The VANR and Interior filed comments and terms and conditions on May 26, 1999.

On March 9, 2000, the Commission issued a draft combined environmental assessment (DEA) for this project and the Middlebury Lower No. 2737 based on the staff's independent analysis. The DEA recommended that the project be licensed with the enhancement measures proposed by the licensee and with additional staff-recommended environmental measures. Comments filed on the DEA have been addressed in the final environmental assessment (FEA), which was issued November 1, 2000.

The Commission staff also prepared a Safety and Design Assessment for the project, which is available in the Commission's public file.

## PROJECT DESCRIPTION

The existing Weybridge Project consists of a concrete gravity dam with integral powerhouse, a 62-acre impoundment, transmission facilities, and appurtenant facilities. A more detailed project description is contained in ordering paragraph (B)(2).

The Weybridge Project is operated as a daily cycling facility during normal and low flow conditions using 2 to 4 feet of impoundment drawdown respectively. The impoundment elevation can be drawn down by 6 feet but this is typically associated with annual maintenance activities. The project operates in a run-of-river mode when the flows exceed the hydraulic capacity of the project (1,600 cfs). The project maintains a minimum flow of 140 cfs or inflow to the bypassed channel on the west side of Rock Island whenever the project is not generating. Ramping procedures are used whenever the project generation is started or stopped.

## APPLICANT'S PLANS AND CAPABILITIES

In accordance with Sections 10(a)(2)(C) and 15(a)(2) of the FPA, the staff evaluated CVPS's record as a licensee for these: (1) conservation efforts; (2) compliance history and ability to comply with the new license; (3) safe management, operation, and maintenance of the project; (4) ability to provide efficient and reliable electric service; (5) need for power; (6) transmission line improvements; (7) cost effectiveness of the plans; (8) compliance record; and (9) ancillary services. I accept the staff's findings in each of these following areas.

Here are the findings:

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1. Consumption Efficiency Improvement Program (Section 10(a)(2)(C))

Staff has reviewed the details of CVPS's "Efficiency Plus" conservation programs and concludes that CVPS is making a good faith effort to conserve electricity, reduce peak-hour demands, and to support the objectives of Section 10(a)(2)(C) of the FPA.

2. Section 15(a)(2)(A): Compliance History and Ability to Comply with the New License

Staff has reviewed CVPS's license application and compliance history with the existing license in an effort to judge its ability to comply with the articles, terms, and conditions of any license issued, and with other applicable provisions of this part of the FPA. Staff concludes that CVPS's overall record of making timely filings and compliance with its license is satisfactory.

Based on that review, staff concludes CVPS has the resources and expertise necessary to carry out its plans and comply with all articles, terms and conditions of a new license.

3. The Plans and Abilities of the Applicant to Manage, Operate, and Maintain the Project Safely (Section 15(a)(2)(B))

Staff has reviewed the project safety of the Weybridge Project and concludes that the dam, spillways, and other project works are safe and that CVPS's record of managing, operating, and maintaining the project facilities has continuously complied with our standards for project safety.

Staff concludes that CVPS's plans to manage, operate, and maintain the project safely are adequate.

4. The Plans and Abilities of the Applicant to Operate and Maintain the Project in a Manner Most Likely to Provide Efficient and Reliable Electric Service (Section 15(a)(2)(C))

The Weybridge Project has operated safely and efficiently for 50 years to provide a continuous, reliable and stable source of power to meet the energy demands of customers in the region.

Staff has reviewed CVPS's load forecast and resource planning to meet energy and capacity requirements over the long term for efficient and reliable electric service, as

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well as its plans to maintain the project facilities. Staff concludes that CVPS is likely to continue to operate and maintain the project in a manner that provides efficient and reliable electric service under a new license.

5. The Need of the Applicant Over the Short and Long Term for the Electricity Generated by the Project to Serve Its Customers (Section 15(a)(2)(D))

The Project is located in the New England Power Pool (NEPOOL) subregion of the Northeast Power Coordinating Council, as defined by the North American Electric Reliability Council. NEPOOL forecasts an average annual growth rate for 2001 through 2009 of 1.52 percent for the summer peak demand and 1.39 percent for the winter peak demand. These growth rate projections support the finding of a long-term need for electricity generated by the Weybridge Project.

The Weybridge Project plays an integral role in providing power for CVPS's customers and in providing firm power, via the transfer of power, to other New England utilities.

The Staff concludes that there is a short and long-term need for the power from the Weybridge Project and that CVPS has the ability to meet these power needs.

6. The Impact of Receiving or Not Receiving the Project License on the Operation, Planning and Stability of Applicant's Transmission System (Section 15(a)(2)(E))

CVPS does not anticipate that loss of the project would significantly affect its transmission system because the existing transmission capacity would be used by the replacement power.

7. Whether the Plans of the Applicant will be Achieved, to the Greatest Extent Possible, in a Cost Effective Manner (Section 15(a)(2)(F))

The mode of operation of the project would not change under a new license and the existing project which has had its debt significantly reduced over the previous license would continue to be a very valuable source of economical electric power. The project with all of the proposed enhancement and mitigation measures would produce power at a cost of about 1.83 cents per kilowatt hour.

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Staff concludes that the Weybridge Project, as currently configured and as operated as described in this order, will fully develop and use the economical hydropower potential of the site in a cost-effective manner.

#### 8. Section 15(a)(3)(A): Compliance Record

Staff has reviewed CVPS's compliance record with the terms and conditions of the existing license. Staff concludes its overall record of making timely filings and compliance with the license is satisfactory.

### CONSIDERATION OF ANCILLARY SERVICE BENEFITS

In analyzing public interest factors, the Commission takes into account that hydroelectric projects offer unique operational benefits to the electric utility system (ancillary benefits). These benefits include their value as almost instantaneous load-following response to dampen voltage and frequency instability on the transmission system, system-power-factor-correction through condensing operations, and a source of power available to help in quickly putting fossil-fuel based generating stations back on line following a major utility system or regional blackout.

Ancillary benefits are now mostly priced at rates that recover only the cost of providing the electric service at issue, which don't resemble the prices that would occur in competitive markets. As competitive markets for ancillary benefits begin to develop, the ability of hydro projects to provide ancillary services to the system will increase the benefits of the projects.

### WATER QUALITY CERTIFICATION

Under Section 401(a)(1) of the Clean Water Act (CWA),<sup>5</sup> the Commission may not issue a license for a hydroelectric project unless the certifying agency has either issued a water quality certification (WQC) for the project or has waived certification by failing to act on a request for certification within a reasonable period of time, not to

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<sup>5</sup>33 U.S.C. § 1341(a)(1).

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exceed one year.<sup>6</sup> Section 401(d) of the CWA provides that state certification shall become a condition on any federal license or permit that is issued.<sup>7</sup>

On May 7, 2001, the Vermont Department of Environmental Conservation (VDEC) issued a Section 401 WQC for the Weybridge Project, subject to certain conditions. VDEC's WQC includes 17 conditions or requirements of the licensee. The substantive provisions are summarized below and are attached in full as Appendix A to this order:<sup>8</sup> (a) operate and maintain the project according to the conditions set forth in the WQC; (b) operate the project in a run-of-river mode with a minimum flow of 157 cfs, or instantaneous inflow if less, spilled along the full spillway crest at all times, with all flows spilled at the dam when the project is not generating; (c) use no more than 10 percent of project inflow to refill reservoir storage following and approved reservoir-maintenance drawdown; (d) develop a plan of action to ensure maintenance of bypass flow and run-of-river operation; (e) develop a monitoring plan for continuous monitoring of the spillage into the bypass reach, discharges from the powerhouse, impoundment levels and inflows; (f) consult with the Department of Fish and Wildlife on trashrack design and file the trashrack design information with the VDEC for approval before replacement of the existing trashracks; (g) provide the VDEC a copy of turbine rating curves within one year; (h) develop a plan for proper disposal of debris associated with project operation; (i) file for prior approval of the VDEC all proposals for project maintenance and repair work which may affect water quality; (j) allow, within limits of reasonable safety and liability, public access to the project lands for use of public

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<sup>6</sup>Section 401(a)(1) requires an applicant for a federal license or permit to conduct any activity that may result in any discharge into navigable waters to obtain from the state in which the discharge originates certification that any such discharge will comply with applicable water quality standards.

<sup>7</sup>33 U.S.C. § 1341(d).

<sup>8</sup>As we have acknowledged in *Kennebec Water Power Company*, 81 FERC ¶ 61,254 (1997), we are required by the decision of the United States Court of Appeals in *American River, et al. v. FERC*, 129 F.3d 99 (D.C. Cir. 1997), to accept all conditions in a water quality certification as conditions on a license even if we believe that the conditions may be outside the scope of Section 401. While we have included certain of the provisions as license articles, all of the Section 401 conditions are conditions to this license. In any event, nothing in the conditions of the water quality certification shall be viewed as restricting the Commission's ability or the licensee's obligation, under the Federal Power Act, to take timely action necessary to protect human life or the environment.

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resources; (k) construct and maintain recreational facilities consistent with a recreation plan approved by the VDEC; (l) implement, when requested by the VDEC, erosion control measures to address recreation-related erosion on project lands; (m) allow the VDEC to inspect the project area at any time to monitor certification conditions compliance; (n) post a copy of the certification in the powerhouse; (o) obtain prior approval of the VDEC for any changes to the project which would significantly affect the certification; the certification would also: (p) allow the VDEC to request reopen the license to consider modifications to the license to ensure compliance with Vermont Water Quality Standards; and (q) reserve the VDEC's right to add and alter the terms and conditions of the certification when authorized by law as appropriate to carry out its responsibilities during the life of the project with respect to water quality.

#### SECTION 18 FISHWAY PRESCRIPTION

Section 18 of the FPA authorizes the Secretary of the Interior or the Secretary of Commerce to prescribe fishways at Commission-licensed projects.<sup>9</sup> No Section 18 prescriptions were filed, however, in its comments filed May 26, 1999, Interior did reserve its rights to prescribe fishways at a future date. Article 404 reserves the Commission's authority to require the licensee to construct, maintain, and operate any such fishways that may be prescribed in the future.

#### COASTAL ZONE MANAGEMENT ACT

Under Section 307(c)(3)(A) of the Coastal Zone Management Act (CZMA)<sup>10</sup>, 16 U.S.C. § 1456(3)(A), states that the Commission cannot issue a license for a project within or affecting the state's coastal zone, unless the state CZMA agency concurs with the license applicant's certification of consistency with the state CZMA program. The state of Vermont does not have a CZMA program and, therefore, no coastal zone consistency certification is needed for this project.

#### RECOMMENDATIONS OF FEDERAL AND STATE FISH AND WILDLIFE AGENCIES

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<sup>9</sup>16 U.S.C. § 811.

<sup>10</sup>16 U.S.C. 1456(3)(A).

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Section 10(j) of the FPA<sup>11</sup> requires the Commission, when issuing a license, to include license conditions based on recommendations of federal and state fish and wildlife agencies, submitted pursuant to the Fish and Wildlife Coordination Act, to "adequately and equitably protect, mitigate damages to, and enhance, fish and wildlife (including related spawning grounds and habitat)" affected by the project.

Pursuant to Section 10(j) of the FPA, I have determined that none of the recommendations of the fish and wildlife agencies are inconsistent with the purposes and requirements of Part I of the FPA or other applicable laws. However, I conclude that the recommendation to relocate the canoe portage at Weybridge does not provide for the protection of fish and wildlife, and I am therefore requiring it under Section 10(a) of the Act, rather than Section 10(j). In the FEA, the staff addressed the concerns of the federal and state fish and wildlife agencies and made recommendations consistent with those of the agencies. This license includes, as license articles, the staff's recommended measures.

#### COMPREHENSIVE PLANS

Section 10(a)(2) of the FPA<sup>12</sup> requires the Commission to consider the extent to which a project is consistent with Federal and state comprehensive plans for improving, developing, or conserving waterways affected by the project. Under Section 10(a)(2), Federal and state agencies filed with the Commission 23 plans that address various resources in Vermont. Of these, staff identified and reviewed 10 plans relevant to the project.<sup>13</sup> No inconsistencies were found.

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<sup>11</sup>16 U.S.C. § 803(j)(1).

<sup>12</sup>16 U.S.C. § 803.

<sup>13</sup>(1) Lake Champlain Fish and Wildlife Policy Committee and Technical Committee. 1981. A strategic plan for development of salmonid fisheries in Lake Champlain. Albany, New York. Waterbury, VT. 19 pp.; (2) Vermont Agency of Environmental Conservation. 1983. Vermont state comprehensive outdoor recreation plan, 1983-1988. Montpelier, VT. June 1983. 195pp. and appendices; (3) Vermont Agency of Environmental Conservation. 1986. Vermont Rivers Study. Waterbury, VT. 236pp.; (4) Vermont Agency of Natural Resources. VDEC. 1988. Hydropower in Vermont: an assessment of environmental problems and opportunities. Waterbury, VT. May 1988. Two volumes; (5) Vermont Agency of Natural Resources. Department of Forests, Parks and Recreation. 1988. Vermont recreation plan. Waterbury, VT. 128 pp. Plus map, nine supplemental task group reports, and a 52-page resident recreation

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## COMPREHENSIVE DEVELOPMENT

Sections 4(e) and 10(a)(1) of the FPA<sup>14</sup> require the Commission, in acting on applications for license, to give equal consideration to the power and development purposes and to the purposes of energy conservation, the protection, mitigation of damage to, and enhancement of fish and wildlife, the protection of recreational opportunities, and the preservation of other aspects of environmental quality. Any license issued shall be such as in the Commission's judgment will be best adapted to a comprehensive plan for improving or developing a waterway or waterways for all beneficial public uses. The decision to license this project, and the terms and conditions included herein, reflect such consideration.

In determining whether a proposed project will be best adapted to a comprehensive plan for developing a waterway for beneficial public purposes, pursuant to Section 10(a)(1) of the FPA, the Commission considers a number of public interest factors, including the economic benefits of project power.

Under the Commission's approach to evaluating the economics of hydropower projects, as articulated in Mead Corporation, Publishing Paper Division,<sup>15</sup> the Commission employs an analysis that uses current costs to compare the costs of the project and likely alternative power with no forecasts concerning potential future inflation, escalation, or deflation beyond the license issuance date. The basic purpose of the Commission's economic analysis is to provide a general estimate of the potential

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survey; (6) Vermont Agency of Natural Resources. Department of Forests, Parks and Recreation. Wetlands Steering Committee. 1988. Wetlands component of the 1988 Vermont recreation plan. Waterbury, VT. July 1988. 43 pp.; (7) U.S. Fish and Wildlife Service. Canadian Wildlife Service. 1986. North American waterfowl management plan. Department of the Interior. May 1986. 19 pp.; (8) U.S. Fish and Wildlife Service. Undated. Fisheries USA: the recreational fisheries policy of the U.S. Fish and Wildlife Service. Washington, D.C. 11 pp.; (9) U.S. Fish and Wildlife Service. 1989. Final environmental impact statement--restoration of Atlantic Salmon to New England Rivers. Department of the Interior, New Corner, MA. May 1989. 88 pp.; and (10) National Park Service. 1982. The nationwide rivers inventory. Department of the Interior, Washington, D.C. January 1982. 432 pp.

<sup>14</sup>16 U.S.C. §§ 797(e) and 803(a)(1).

<sup>15</sup>72 FERC ¶ 61,027 (1995).

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power benefits and the costs of a project, and reasonable alternatives to project power. The estimate helps to support an informed decision concerning what is in the public interest with respect to a proposed license.

Since issuance of the FEA, the cost of alternative combined-cycle combustion turbine generating capacity has decreased about 10 percent while the cost of natural gas for such generation has increased about 46 percent. We now calculate the cost of alternative power for the project to be about 39.74 mills/kWh. An economic analysis of the Weybridge Project, as proposed by the staff, and based on current economic conditions, without future escalation or inflation, would produce an average of 11,919 MWh per year over a 30-year license period. The annual value of this energy is about \$473,180 (or about 39.7 mills per kilowatt-hour (mills/kWh), based on the current average cost of alternative capacity and energy in the region. The annual cost of producing this energy at the Weybridge Project is about \$218,350 (18.32 mills/kWh). Therefore, the project, with staff-recommended environmental measures, would produce power at an annual cost of about \$254,830 (21.4 mills/kWh) less than currently available alternative power.

The FEA analyzes the effects associated with issuance of a new license for the Weybridge Project. The FEA recommends a variety of measures to protect and enhance the environmental resources, which are adopted, as discussed herein. Staff's recommended environmental measures were developed after considering the comments made by the state and federal resource agencies and other commenting entities.

Based on the review and evaluation of the project, as proposed by the Applicant, and with the additional staff-recommended environmental measures, I conclude that the continued operation and maintenance of the project in the manner required by the license, will protect and enhance fish and wildlife resources, water quality, recreational, aesthetic, and cultural resources. The electricity generated from renewable water power resources will be beneficial because it will continue to offset the use of fossil-fueled, steam-electric generating plants, thereby conserving nonrenewable resources and reducing atmospheric pollution.

I am requiring the licensee to implement at the Weybridge Project, the environmental measures summarized below:

(1) Provide a constant minimum flow of 125 cfs into the project's bypassed reach when the project is generating, with the proviso that this minimum would be raised to 250 cfs for walleye spawning during April and May, once walleye are introduced to this reach of Otter Creek; (Article 401)

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(2) Provide a non-generation minimum flow in the bypassed reach of 250 cfs; (Article 401)

(3) Construct an instream diversion structure that will ensure a minimum flow of 125 cfs is passed into both the East and West Channels around Wyman Island during non-generation periods; (Article 402)

(4) Develop a plan to conduct DO monitoring in the tailrace during the months of July, August, and September, whenever project shutdowns exceed two consecutive days, with the requirement to release flows to the tailrace to maintain state water quality standards, if the monitoring indicates a violation of state standards; (Article 406)

(5) Develop a flow monitoring plan in consultation with the resource agencies (Article 404);

(6) Reserve Interior's authority to prescribe the construction, operation, and maintenance of fishways under Section 18 of the FPA (Article 405);

(7) Impose peaking constraints under normal operations of no greater than a 4.5:1 ratio between maximum and minimum flow in a 24-hour period (Article 403);

(8) Eliminate all reservoir drawdowns between April 1 and June 15 to enhance fish spawning opportunities (Article 403);

(9) Eliminate 4-foot drawdowns (except in emergency situations) between October 15 and April 1 (Article 403);

(10) Require that drawdowns greater than 2 feet for annual maintenance be scheduled in consultation with the agencies, and target a biologically non-critical time period (Article 403);

(11) Restrict reservoir drawdowns to 2 feet or less during normal operations to enhance wetland development and protect other shoreline aquatic resources (Article 403);

(12) Maintain existing downramping and upramping procedures, when reducing flows to, or increasing flows above, the new proposed minimum flow of 250 cfs (Article 403);

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(13) Provide recreation enhancements to include relocating the canoe portage take-out, installing an interpretive sign on the downstream side of the old powerhouse, and modifying one of the existing picnic tables to provide access to persons with disabilities (Article 408); and

(14) Complete Phase 1B archeological testing and enter into a PA with the Vermont SHPO, the Commission, and the Advisory Council on Historic Preservation, that provides for the development of a CRMP (Article 407).

## LICENSE TERM

Section 15(e) of the FPA<sup>16</sup> specifies that any license issued shall be for a term determined to be in the public interest, but the term may not be less than 30 years nor more than 50 years. The Commission's policy establishes 30-year terms for those projects that propose little or no redevelopment, new construction, new capacity, or enhancement; 40-year terms for those projects that propose a moderate amount of redevelopment, new construction, new capacity or enhancement; and 50-year terms for those projects that propose extensive redevelopment, new construction, new capacity or enhancement.<sup>17</sup>

CVPS is not proposing redevelopment of the project, nor am I requiring enhancement measures that would justify a longer term. Accordingly, the license for the Weybridge Project will have a term of 30 years.

## SUMMARY OF FINDINGS

The combined FEA for this project and the Middlebury Lower Project No. 2737-002, issued November 01, 2000, contains background information, analysis of impacts, support for related license articles, and the basis for a finding of no significant impact on the environment.

The project works are safe and the owner's record of managing, operating, and maintaining these facilities presents no reason to deny issuance of a license. The project will continue to be safe if operated and maintained in accordance with the requirements of this license.

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<sup>16</sup>16 U.S.C. § 808(e).

<sup>17</sup>See, City of Danville, Virginia, 58 FERC ¶ 61,318 (1992).

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Based upon a review of the agency and public comments filed on the project, and staff's independent analysis pursuant to Sections 4(e) and 10(a)(2) of the FPA, I conclude that issuing a license for the Weybridge Project, with the required environmental measures and other special license conditions, would not conflict with any planned or authorized development, and would be best adapted to the comprehensive development of Otter Creek for beneficial public uses.

The Director orders:

(A) This license is issued to Central Vermont Public Service Corporation (licensee) to operate and maintain the Weybridge Project for a period of 30 years, effective the first day of the month the license is issued. This license is subject to the terms and conditions of the FPA, which is incorporated by reference as part of this license, and subject to the regulations the Commission issues under the provisions of the FPA.

(B) The project consists of:

(1) All lands, to the extent of the licensee's interests in those lands, enclosed by the project boundary shown by Exhibit G:

<u>Exhibit</u>	<u>FERC No.2731-</u>	<u>Showing</u>
G-1	1004	Project Location Map
G-2	1005	Otter Creek Basin Map
G-3	1006	Project Boundary Map
G-4	1007	Project Boundary Detail Map

(2) Project works consisting of: (1) a 30-foot-high, 302.6-foot-long concrete gravity dam consisting of two spillway sections, a 150-foot-long west spillway section, topped with a 6-foot-high hinged steel flashboard, and abutted by a 20-foot-wide and 10-foot-high Taintor gate, and a 116-foot-long east spillway section topped with an automatically-inflated rubber weir; (2) a 1.5-mile-long, 62-acre impoundment with a normal water surface elevation of 174.3 feet above mean sea level (msl); (3) a powerhouse integral with the dam containing a single vertical Kaplan turbine generator with an installed capacity of 3.0 MW, and an intake containing steel trashracks with a 3-inch clear spacing; (4) a diversion wall at the south end of Rock Island to better

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apportion flows between the downstream east and west channels; (5) appropriate generator leads and transformers to connect the project to the interconnected transmission/distribution system at the project switchyard about 100 feet from the powerhouse; and (6) appurtenant facilities

The project works generally described above are more specifically shown and described by those portions of exhibits A and F shown below:

Exhibit A:

Pages A-1 through A-33 describing the project facilities and operation, filed on May 27, 1998, with the application for license.

<u>Exhibit F drawings</u>	<u>FERC No.2731-</u>	<u>Showing</u>
Sheet F-1	1001	Powerhouse and Dam Plan
Sheet F-2	1002	Dam Profiles and Sections
Sheet F-3	1003	Powerhouse Plan and Sections

(3) All of the structures, fixtures, equipment, or facilities used to operate or maintain the project and located within the project boundary, all portable property that may be employed in connection with the project and located within or outside the project boundary, and all riparian or other rights that are necessary or appropriate in the operation or maintenance of the project.

(C) The Exhibits A, F, and G described above are approved and made part of the license.

(D) This license is subject to all the articles that are set forth in Form L-3 (October 1975), entitled "Terms and Conditions of License for Constructed Major Project Affecting Navigable Waters of the United States," and the following additional articles:

Article 201. The licensee shall pay the United States the following annual charges:

For the purposes of reimbursing the United States for the costs of administering Part I of the Federal Power Act, a reasonable amount as determined in accordance with the provisions of the Commissioner's regulations in effect from time to time. The

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authorized installed capacity for that purpose is 3.0 MW for the Weybridge Project. This annual charge shall be effective as of the first day of the month in which is license is issued.

Article 202. Pursuant to Section 10(d) of the Act, a specified reasonable rate of return upon the net investment in the project shall be used for determining surplus earnings of the project for the establishment and maintenance of amortization reserves. The licensee shall set aside in a project amortization reserve account at the end of each fiscal year one-half of the project surplus earnings, if any, in excess of the specified rate of return per annum on the net investment. To the extent that there is a deficiency of project earnings below the specified rate of return per annum for any fiscal year, the licensee shall deduct the amount of that deficiency from the amount of any surplus earnings subsequently accumulated, until absorbed. The licensee shall set aside one-half of the remaining surplus earnings, if any, cumulatively computed, in the project amortization reserve account. The licensee shall maintain the amounts established in the project amortization reserved account until further order of the Commission.

The specified reasonable rate of return used in computing amortization reserves shall be calculated annually based on current capital ratios developed from an average of .13 monthly balances of amounts properly includible in the licensee's long-term debt and proprietary capital accounts as listed in the Commission's Uniform System of Accounts. The cost rate for such ratios shall be the weighted average cost of long-term debt and preferred stock for the year, and the cost of common equity shall be the interest rate on 10-year government bonds (reported as the Treasury Department's 10-year constant maturity series) computed on the monthly average for the year in question plus four percentage points (400 basis points).

Article 203. Within 45 days of the date of issuance of the license, the licensee shall file an original set and two duplicate sets of aperture cards of the approved drawings. The set of originals must be reproduced on silver or gelatin 35 mm microfilm. The duplicate sets are copies of the originals made on diazo-type microfilm. All microfilm must be mounted on type D (3-1/4" x 7-3/8") aperture cards.

Prior to microfilming, the Commission Drawing Number (2731-1 through 2731-7) shall be shown in the margin below the title block of the approved drawing. After mounting, the Commission Drawing Number must be typed on the upper right corner of each aperture card. Additionally, the Project Number, Commission Exhibit (e.g., F-1, G-1, etc.), Drawing Title, and date of this license must be typed on the upper left corner of each aperture card.

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The original and one duplicate set of aperture cards must be filed with the Secretary of the Commission. The remaining duplicate set of aperture cards shall be filed with the Commission's New York Regional Office.

Article 204. If the Weybridge Project was directly benefited by the construction work of another licensee, a permittee, or of the United States on a storage reservoir or other headwater improvement during the term of the original license (including extensions of that term by annual licenses), and if those headwater benefits were not previously assessed and reimbursed to the owner of the headwater improvement, the licensee shall reimburse the owner of the headwater improvement for those benefits, at such time as they are assessed, in the same manner as for benefits received during the term of this new license.

Article 205. Within 90 days from the date of issuance of this license, the licensee shall file with the Commission, in accordance with the provisions of 18 CFR Part 11 of the Commission's regulations, a statement showing the gross amount of power generation for the project in kilowatt-hours for each calendar year commencing January 1 and ending December 31.

Article 301. Within 90 days of completion of construction of facilities authorized by this license (recreational facilities), the licensee shall file for approval, revised Exhibits F and G to show those project facilities as-built.

Article 401. The licensee shall release from the Weybridge Project spillway, a continuous minimum flow of 125 cubic feet per second (cfs), as measured in the bypassed reach immediately downstream of the spillway, for the protection and enhancement of water quality and aquatic resources in Otter Creek. The licensee shall release this minimum flow through the existing Taintor gate when the project is generating, with the proviso that this minimum flow shall be raised to 250 cfs for walleye spawning during April and May, once the licensee has been notified by the Vermont Department of Natural Resources that walleye have been introduced to this reach of Otter Creek. This minimum flow shall also be raised to 250 cfs during periods of project shutdown, to ensure that 125 cfs is passed into both the East and West Channels around Wyman Island. In the East Channel, the 125-cfs flow requirement shall be met from the head of the channel (at IFIM study transect H-6) downstream to the lower end of the channel (at IFIM study transect H-1). In the West Channel, the 125-cfs flow requirement shall be met below the islands the head of the channel (at IFIM study transects H-3, H-4, and H-5).



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These required releases from the Weybridge Project may be temporarily modified if required by operating emergencies beyond the control of the licensee, and for short periods upon mutual agreement between the licensee and the Vermont Agency of Natural Resources. If the flow is so modified, the licensee shall notify the Commission as soon as possible, but no later than 10 days after each such incident, and shall provide the reason for the modified flow release.

Article 402. Within 180 days after license issuance, the licensee shall file for Commission approval, a plan for construction of a diversion structure at the downstream end of Rock Island. The structure shall meet the following criteria: (1) distribute flows as proposed (i.e., 125 cfs to the East and West Channels around Wyman Island during non-generation periods, and 125 cfs to the West Channel during generation periods); (2) have a high degree of permanence and require limited maintenance; (3) allow for upstream fish movement through the structure; (4) have the ability to adjust flow distributions; (5) not create a safety hazard; (6) not result in unplanned channel or bank erosion; and (7) blend in with the surrounding environment as much as possible. The plan shall be prepared after consultation with the U.S. Fish and Wildlife Service and the Vermont Agency of Natural Resources, and include, at a minimum, design drawings and cost estimates of the proposed structure, a proposed monitoring plan to ensure that the structure remains functional throughout the term of the license, and a schedule for implementing the plan.

The licensee shall include with the plan, documentation of agency consultation, copies of agency comments and recommendations on the draft plan, and specific descriptions of how the agencies' comments are accommodated by the plan. The licensee shall allow a minimum of 30 days for the agencies to comment and to make recommendations on the draft plan, before filing the final plan with the Commission. If the licensee does not adopt a recommendation, the filing shall include the licensee's reasons, based on site-specific information.

The Commission reserves the right to require changes to the plan. No construction shall begin until the licensee is notified the plan is approved. Upon Commission approval, the licensee shall implement the plan, including any changes required by the Commission.

Article 403. The licensee shall operate the Weybridge Project with the following operational constraints to protect aquatic and terrestrial resources:

- impose peaking constraints under normal operations of no greater than a 4.5:1 ratio between maximum and minimum flow in a 24-hour period;

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- eliminate all reservoir drawdowns between April 1 and June 15 to enhance fish spawning opportunities;
- eliminate 4-foot drawdowns (except in emergency situations) between October 15 and April 1;
- schedule drawdowns greater than 2 feet for annual maintenance in consultation with the agencies, so that they occur during a biologically non-critical time period;
- restrict reservoir drawdowns to 2 feet or less during normal operations to enhance wetland development and protect other shoreline aquatic resources; and
- maintain existing downramping and upramping procedures, when reducing flows to, or increasing flows above, the new proposed minimum flow of 250 cfs.

Article 404. Within 90 days after license issuance, the licensee shall file for Commission approval, a project operations plan to monitor headpond elevations and the minimum flows required by Articles 401, 402, and 403. This plan must be prepared after consultations with the U.S. Fish and Wildlife Service, the U.S. Geological Survey, and the Vermont Agency of Natural Resources.

The plan shall include, at a minimum;

- (1) a schedule for installing all flow and elevation measuring devices;
- (2) the planned locations of the flow and elevation measuring devices;
- (3) specific measures that would ensure that the monitoring system would operate under all conditions (including loss of external electric power to the project);
- (4) the design of the devices, including any pertinent hydraulic calculations, technical specifications of proposed instrumentation, erosion and sediment control measures, as appropriate, and design drawings of the system; and
- (5) the method of data collection, and provisions for providing data to the regulatory agencies in a timely manner.

The licensee shall include with the plan documentation of agency consultation, copies of agency comments and recommendations on the draft plan, and specific

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descriptions of how the agencies' comments are accommodated by the plan. The licensee shall allow a minimum of 30 days for the agencies to comment and to make recommendations before filing the final plan with the Commission. If the licensee does not adopt a recommendation, the filing shall include the licensee's reasons, based on site-specific information.

The Commission reserves the right to require changes to the plan. No ground disturbing or land-clearing activities for installation and use of monitoring devices shall begin until the licensee is notified the plan is approved. Upon Commission approval, the licensee shall implement the plan, including any changes required by the Commission.

Article 405. The Commission reserves its authority to require the licensee to construct, operate, and maintain, or to provide for the construction, operation, and maintenance of such fishways as may be prescribed by the Secretary of the Interior, under Section 18 of the Federal Power Act.

Article 406. Within 90 days after license issuance, the licensee shall file for Commission approval, a plan to conduct dissolved oxygen (DO) monitoring in the Weybridge Project tailrace during the months of July, August, and September, whenever project shutdowns exceed two consecutive days, with the requirement to release flows to the tailrace to maintain state water quality standards, if the monitoring indicates a violation of state standards. The plan must outline a two-year sampling protocol with the objective of identifying when and under what river and operational conditions reduced DO levels occur in the tailrace, and what level of "freshening" flows are required to maintain state standards.

This plan must be prepared after consultations with the U.S. Fish and Wildlife Service and the Vermont Agency of Natural Resources. The licensee shall include with the plan, documentation of agency consultation, copies of agency comments and recommendations on the draft plan, and specific descriptions of how the agencies' comments are accommodated by the plan. The licensee shall allow a minimum of 30 days for the agencies to comment and to make recommendations before filing the final plan with the Commission. If the licensee does not adopt a recommendation, the filing shall include the licensee's reasons, based on site-specific information.

The Commission reserves the right to require changes to the plan. Upon Commission approval, the licensee shall implement the plan, including any changes required by the Commission.

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Article 407. The licensee shall complete Phase 1B archaeological testing at the Weybridge Project, and implement the "Programmatic Agreement Among the Federal Energy Regulatory Commission, the Advisory Council on Historic Preservation, and the Vermont State Historic Preservation Office for Managing Historic Properties That May Be Affected By A License Issuing to Central Vermont Public Service Corporation, For the Continued Operation of the Weybridge Hydroelectric Power Project in Vermont," executed on February 21, 2001<sup>15</sup>, including but not limited to the Cultural Resources Management Plan (CRMP) for the project. In the event that the Programmatic Agreement is terminated, the licensee shall implement the provisions of its approved CRMP. The Commission reserves the authority to require changes to the CRMP at any time during the term of the license. If the Programmatic Agreement is terminated prior to Commission approval of the CRMP, the licensee shall obtain approval before engaging in any ground disturbing activities or taking any other action that may affect any Historic Properties within the project's Area of Potential Effect.

Article 408. Within 90 days of license issuance, the licensee shall file for Commission approval, a project recreation plan.

The recreation plan shall provide for the following recreational enhancements at the Weybridge Project: (1) provide an interpretive sign on the downstream side of the old powerhouse; (2) relocate the canoe portage take-out, and (3) modify one of the existing picnic tables to provide ADA accessibility.

The plan shall include, at a minimum, the following: (1) final site plans for the recreational facilities cited above; (2) design drawings of the directional signs and a description of where they will be located; (3) a discussion of how the design of the facilities take into account the national standards established by the Architectural and Transportation Barriers Compliance Board pursuant to the Americans with Disabilities Act of 1990; (4) a description of the proposed operation and maintenance of the licensee's recreational facilities, including the responsible entity; (5) appropriate erosion and sediment control measures consistent with the conditions of the water quality certificate; and (6) an implementation schedule.

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<sup>15</sup> This is the date by which we requested the Advisory Council return the signed original copy of the Executed Programmatic Agreement. The signature pages were returned signed by all parties except the Council, which reports that their signature is not needed. Since we have not been able to secure the original signed copy from the Council, we are using this date, February 21, 2001, as the effective execution date.

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The licensee shall prepare the recreation plan after consultation with the Vermont Agency of Natural Resources, the Vermont State Historic Preservation Office, the National Park Service, the U. S. Fish and Wildlife Service, and the Towns of Weybridge and New Haven. The licensee shall include with the plan documentation of consultation, copies of comments and recommendations on the draft plan after it has been prepared and provided to the agencies, and specific descriptions of how the agencies' comments are accommodated by the plan. The licensee shall allow a minimum of 30 days for the agencies to comment and to make recommendations prior to filing the final plan with the Commission for approval. If the licensee does not adopt a recommendation, the filing shall include the licensee's reasons, based on project-specific information.

The Commission reserves the right to require changes to the plan. No ground disturbing or land-clearing activities for new recreation facilities shall begin until the licensee is notified the plan is approved. Upon approval, the licensee shall implement the plan, including any changes required by the Commission.

Article 409. (a) In accordance with the provisions of this article, the licensee shall have the authority to grant permission for certain types of use and occupancy of project lands and waters and to convey certain interests in project lands and waters for certain types of use and occupancy, without prior Commission approval. The licensee may exercise the authority only if the proposed use and occupancy is consistent with the purposes of protecting and enhancing the scenic, recreational, and other environmental values of the project. For those purposes, the licensee shall also have continuing responsibility to supervise and control the use and occupancies for which it grants permission, and to monitor the use of, and ensure compliance with the covenants of the instrument of conveyance for, any interests that it has conveyed, under this article. If a permitted use and occupancy violates any condition of this article or any other condition imposed by the licensee for protection and enhancement of the project's scenic, recreational, or other environmental values, or if a covenant of a conveyance made under the authority of this article is violated, the licensee shall take any lawful action necessary to correct the violation. For a permitted use or occupancy, that action includes, if necessary, canceling the permission to use and occupy the project lands and waters and requiring the removal of any non-complying structures and facilities.

(b) The type of use and occupancy of project lands and water for which the licensee may grant permission without prior Commission approval are:

- (1) landscape plantings;

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- (2) non-commercial piers, landings, boat docks, or similar structures and facilities that can accommodate no more than 10 watercraft at a time and where said facility is intended to serve single-family type dwellings;
- (3) embankments, bulkheads, retaining walls, or similar structures for erosion control to protect the existing shoreline; and
- (4) food plots and other wildlife enhancement.

To the extent feasible and desirable to protect and enhance the project's scenic, recreational, and other environmental values, the licensee shall require multiple use and occupancy of facilities for access to project lands or waters. The licensee shall also ensure, to the satisfaction of the Commission's authorized representative, that the use and occupancies for which it grants permission are maintained in good repair and comply with applicable state and local health and safety requirements.

Before granting permission for construction of bulkheads or retaining walls, the licensee shall:

- (1) inspect the site of the proposed construction;
- (2) consider whether the planting of vegetation or the use of riprap would be adequate to control erosion at the site; and
- (3) determine that the proposed construction is needed and would not change the basic contour of the reservoir shoreline.

To implement this paragraph (b), the licensee may, among other things, establish a program for issuing permits for the specified types of use and occupancy of project lands and waters, which may be subject to the payment of a reasonable fee to cover the licensee's costs of administering the permit program. The Commission reserves the right to require the licensee to file a description of its standards, guidelines, and procedures for implementing this paragraph (b) and to require modification of those standards, guidelines, or procedures.

(c) The licensee may convey easements or rights-of-way across, or leases of, project lands for:

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- (1) replacement, expansion, realignment, or maintenance of bridges or roads where all necessary state and federal approvals have been obtained;
- (2) storm drains and water mains;
- (3) sewers that do not discharge into project waters;
- (4) minor access roads;
- (5) telephone, gas, and electric utility distribution lines;
- (6) non-project overhead electric transmission lines that do not require erection of support structures within the project boundary;
- (7) submarine, overhead, or underground major telephone distribution cables or major electric distribution lines (69-kV or less); and
- (8) water intake or pumping facilities that do not extract more than one million gallons per day from a project reservoir.

No later than January 31 of each year, the licensee shall file three copies of a report briefly describing for each conveyance made under this paragraph (c) during the prior calendar year, the type of interest conveyed, the location of the lands subject to the conveyance, and the nature of the use for which the interest was conveyed.

(d) The licensee may convey fee title to, easements or rights-of-way across, or leases of project lands for:

- (1) construction of new bridges or roads for which all necessary state and federal approvals have been obtained;
- (2) sewer or effluent lines that discharge into project waters, for which all necessary federal and state water quality certification or permits have been obtained;
- (3) other pipelines that cross project lands or waters but do not discharge into project waters;

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- (4) non-project overhead electric transmission lines that require erection of support structures within the project boundary, for which all necessary federal and state approvals have been obtained;
- (5) private or public marinas that can accommodate no more than 10 watercraft at a time and are located at least one-half mile (measured over project waters) from any other private or public marina;
- (6) recreational development consistent with an approved Exhibit R or approved report on recreational resources of an Exhibit E; and
- (7) other uses, if: (i) the amount of land conveyed for a particular use is five acres or less; (ii) all of the land conveyed is located at least 75 feet, measured horizontally, from project waters at normal surface elevation; and (iii) no more than 50 total acres of project lands for each project development are conveyed under this clause (d)(7) in any calendar year.

At least 60 days before conveying any interest in project lands under this paragraph (d), the licensee must submit a letter to the Director, Office of Energy Projects, stating its intent to convey the interest and briefly describing the type of interest and location of the lands to be conveyed (a marked exhibit G or K map may be used), the nature of the proposed use, the identity of any federal or state agency official consulted, and any federal or state approvals required for the proposed use. Unless the Director, within 45 days from the filing date, requires the licensee to file an application for prior approval, the licensee may convey the intended interest at the end of that period.

(e) The following additional conditions apply to any intended conveyance under paragraph (c) or (d) of this article:

(1) Before conveying the interest, the licensee shall consult with federal and state fish and wildlife or recreation agencies, as appropriate, and the State Historic Preservation Officer.

(2) Before conveying the interest, the licensee shall determine that the proposed use of the lands to be conveyed is not inconsistent with any approved exhibit R or approved report on recreational resources of an exhibit E; or, if the project does not have



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an approved exhibit R or approved report on recreational resources, that the lands to be conveyed do not have recreational value.

(3) The instrument of conveyance must include the following covenants running with the land: (i) the use of the lands conveyed shall not endanger health, create a nuisance, or otherwise be incompatible with overall project recreational use; (ii) the grantee shall take all reasonable precautions to ensure that the construction, operation, and maintenance of structures or facilities on the conveyed lands will occur in a manner that will protect the scenic, recreational, and environmental values of the project; and (iii) the grantee shall not unduly restrict public access to project waters.

(4) The Commission reserves the right to require the licensee to take reasonable remedial action to correct any violation of the terms and conditions of this article, for the protection and enhancement of the project's scenic, recreational, and other environmental values.

(f) The conveyance of an interest in project lands under this article does not in itself change the project boundaries. The project boundaries may be changed to exclude land conveyed under this article only upon approval of revised exhibit G or K drawings (project boundary maps) reflecting exclusion of that land. Lands conveyed under this article will be excluded from the project only upon a determination that the lands are not necessary for project purposes, such as operation and maintenance, flowage, recreation, public access, protection of environmental resources, and shoreline control, including shoreline aesthetic values. Absent extraordinary circumstances, proposals to exclude lands conveyed under this article from the project shall be consolidated for consideration when revised exhibit G or K drawings would be filed for approval for other purposes.

(g) The authority granted to the licensee under this article shall not apply to any part of the public lands and reservations of the United States included within the project boundary.

The Director further orders:

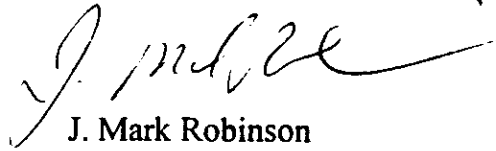
(E) The licensee shall serve copies of any Commission filing required by this order on any entity specified in this order to be consulted on matters related to that filing. Proof of service on these entities must accompany the filing with the Commission.

(F) This order is issued under authority delegated to the Director and constitutes final agency action. Requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order, pursuant to 18 C.F.R. Section 385.713. The

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filing of a request for rehearing does not operate as a stay of the effective date of this order or of any other date specified in this order, except as specifically ordered by the Commission. The licensee's failure to file a request for rehearing shall constitute acceptance of this order.



J. Mark Robinson  
Director  
Office of Energy Projects

Form L-3  
(October, 1975)

FEDERAL ENERGY REGULATORY COMMISSION

TERMS AND CONDITIONS OF LICENSE FOR CONSTRUCTED  
MAJOR PROJECT AFFECTING NAVIGABLE  
WATERS OF THE UNITED STATES

**Article 1.** The entire project, as described in this order of the Commission, shall be subject to all of the provisions, terms, and conditions of the license.

**Article 2.** No substantial change shall be made in the maps, plans, specifications, and statements described and designated as exhibits and approved by the Commission in its order as a part of the license until such change shall have been approved by the Commission: Provided, however, That if the Licensee or the Commission deems it necessary or desirable that said approved exhibits, or any of them, be changed, there shall be submitted to the Commission for approval a revised, or additional exhibit or exhibits covering the proposed changes which, upon approval by the Commission, shall become a part of the license and shall supersede, in whole or in part, such exhibit or exhibits theretofore made a part of the license as may be specified by the Commission.

**Article 3.** The project area and project works shall be in substantial conformity with the approved exhibits referred to in Article 2 herein or as changed in accordance with the provisions of said article. Except when emergency shall require for the protection of navigation, life, health, or property, there shall not be made without prior approval of the Commission any substantial alteration or addition not in conformity with the approved plans to any dam or other project works under the license or any substantial use of project lands and waters not authorized herein; and any emergency alteration, addition, or use so made shall thereafter be subject to such modification and change as the Commission may direct. Minor changes in project works, or in uses of project lands and waters, or divergence from such approved exhibits may be made if such changes will not result in a decrease in efficiency, in a material increase in cost, in an adverse environmental impact, or in impairment of the general scheme of development; but any of such minor changes made without the prior approval of the Commission, which in its judgment have produced or will produce any of such results, shall be subject to such alteration as the Commission may direct.

**Article 4.** The project, including its operation and maintenance and any work incidental to additions or alterations authorized by the Commission, whether or not conducted upon lands of the United States, shall be subject to the inspection and supervision of the Regional Engineer, Federal Energy Regulatory Commission, in the region wherein the project is located, or of such other officer or agent as the Commission may designate, who shall be the authorized representative of the Commission for such purposes. The Licensee shall cooperate fully with said representative and shall furnish him such information as he may require concerning the operation and maintenance of the project, and any such alterations thereto, and shall notify him of the date upon which work with respect to any alteration will begin, as far in advance thereof as said representative may reasonably specify, and shall notify him promptly in writing of any suspension of work for a period of more than one week, and of its resumption and completion. The Licensee shall submit to said representative a detailed program of inspection by the Licensee that will provide for an adequate and qualified inspection force for construction of any such alterations to the project. Construction of said alterations or any feature thereof shall not be initiated until the program of inspection for the alterations or any feature thereof has been approved by said representative. The Licensee shall allow said representative and other officers or employees of the United States, showing proper credentials, free and unrestricted access to, through, and across the project lands and project works in the performance of their official duties. The Licensee shall comply with such rules and regulations of general or special applicability as the Commission may prescribe from time to time for the protection of life, health, or property.

**Article 5.** The Licensee, within five years from the date of issuance of the license, shall acquire title in fee or the right to use in perpetuity all lands, other than lands of the United States, necessary or appropriate for the construction maintenance, and operation of the project. The Licensee or its successors and assigns shall, during the period of the license, retain the possession of all project property covered by the license as issued or as later amended, including the project area, the project works, and all franchises, easements, water rights, and rights or occupancy and use; and none of such properties shall be voluntarily sold, leased, transferred, abandoned, or otherwise disposed of without the prior written approval of the Commission, except that the Licensee may lease or otherwise dispose of interests in project lands or property without specific written approval of the Commission pursuant to the then current regulations of the Commission. The provisions of this article are not intended to prevent the abandonment or the retirement from service of structures, equipment, or other project works in connection with replacements thereof when they

become obsolete, inadequate, or inefficient for further service due to wear and tear; and mortgage or trust deeds or judicial sales made thereunder, or tax sales, shall not be deemed voluntary transfers within the meaning of this article.

**Article 6.** In the event the project is taken over by the United States upon the termination of the license as provided in Section 14 of the Federal Power Act, or is transferred to a new licensee or to a non-power licensee under the provisions of Section 15 of said Act, the Licensee, its successors and assigns shall be responsible for, and shall make good any defect of title to, or of right of occupancy and use in, any of such project property that is necessary or appropriate or valuable and serviceable in the maintenance and operation of the project, and shall pay and discharge, or shall assume responsibility for payment and discharge of, all liens or encumbrances upon the project or project property created by the Licensee or created or incurred after the issuance of the license: Provided, That the provisions of this article are not intended to require the Licensee, for the purpose of transferring the project to the United States or to a new licensee, to acquire any different title to, or right of occupancy and use in, any of such project property than was necessary to acquire for its own purposes as the Licensee.

**Article 7.** The actual legitimate original cost of the project, and of any addition thereto or betterment thereof, shall be determined by the Commission in accordance with the Federal Power Act and the Commission's Rules and Regulations thereunder.

**Article 8.** The Licensee shall install and thereafter maintain gages and stream-gaging stations for the purpose of determining the stage and flow of the stream or streams on which the project is located, the amount of water held in and withdrawn from storage, and the effective head on the turbines; shall provide for the required reading of such gages and for the adequate rating of such stations; and shall install and maintain standard meters adequate for the determination of the amount of electric energy generated by the project works. The number, character, and location of gages, meters, or other measuring devices, and the method of operation thereof, shall at all times be satisfactory to the Commission or its authorized representative. The Commission reserves the right, after notice and opportunity for hearing, to require such alterations in the number, character, and location of gages, meters, or other measuring devices, and the method of operation thereof, as are necessary to secure adequate determinations. The installation of gages, the rating of said stream or streams, and the determination of the flow thereof, shall be under the supervision of, or in cooperation with, the District Engineer of the United States Geological Survey having charge of stream-gaging opera-

tions in the region of the project, and the Licensee shall advance to the United States Geological Survey the amount of funds estimated to be necessary for such supervision, or cooperation for such periods as may mutually agreed upon. The Licensee shall keep accurate and sufficient records of the foregoing determinations to the satisfaction of the Commission, and shall make return of such records annually at such time and in such form as the Commission may prescribe.

**Article 9.** The Licensee shall, after notice and opportunity for hearing, install additional capacity or make other changes in the project as directed by the Commission, to the extent that it is economically sound and in the public interest to do so.

**Article 10.** The Licensee shall, after notice and opportunity for hearing, coordinate the operation of the project, electrically and hydraulically, with such other projects or power systems and in such manner as the Commission any direct in the interest of power and other beneficial public uses of water resources, and on such conditions concerning the equitable sharing of benefits by the Licensee as the Commission may order.

**Article 11.** Whenever the Licensee is directly benefited by the construction work of another licensee, a permittee, or the United States on a storage reservoir or other headwater improvement, the Licensee shall reimburse the owner of the headwater improvement for such part of the annual charges for interest, maintenance, and depreciation thereof as the Commission shall determine to be equitable, and shall pay to the United States the cost of making such determination as fixed by the Commission. For benefits provided by a storage reservoir or other headwater improvement of the United States, the Licensee shall pay to the Commission the amounts for which it is billed from time to time for such headwater benefits and for the cost of making the determinations pursuant to the then current regulations of the Commission under the Federal Power Act.

**Article 12.** The United States specifically retains and safeguards the right to use water in such amount, to be determined by the Secretary of the Army, as may be necessary for the purposes of navigation on the navigable waterway affected; and the operations of the Licensee, so far as they affect the use, storage and discharge from storage of waters affected by the license, shall at all times be controlled by such reasonable rules and regulations as the Secretary of the Army may prescribe in the interest of navigation, and as the Commission may prescribe for the protection of life, health, and property, and in the interest of the fullest practicable conservation and utilization of such waters for power purposes and for other beneficial public uses, including recreational purposes, and the Licensee shall release water from the project reservoir at such

rate in cubic feet per second, or such volume in acre-feet per specified period of time, as the Secretary of the Army may prescribe in the interest of navigation, or as the Commission may prescribe for the other purposes hereinbefore mentioned.

**Article 13.** On the application of any person, association, corporation, Federal agency, State or municipality, the Licensee shall permit such reasonable use of its reservoir or other project properties, including works, lands and water rights, or parts thereof, as may be ordered by the Commission, after notice and opportunity for hearing, in the interests of comprehensive development of the waterway or waterways involved and the conservation and utilization of the water resources of the region for water supply or for the purposes of steam-electric, irrigation, industrial, municipal or similar uses. The Licensee shall receive reasonable compensation for use of its reservoir or other project properties or parts thereof for such purposes, to include at least full reimbursement for any damages or expenses which the joint use causes the Licensee to incur. Any such compensation shall be fixed by the Commission either by approval of an agreement between the Licensee and the party or parties benefiting or after notice and opportunity for hearing. Applications shall contain information in sufficient detail to afford a full understanding of the proposed use, including satisfactory evidence that the applicant possesses necessary water rights pursuant to applicable State law, or a showing of cause why such evidence cannot concurrently be submitted, and a statement as to the relationship of the proposed use to any State or municipal plans or orders which may have been adopted with respect to the use of such waters.

**Article 14.** In the construction or maintenance of the project works, the Licensee shall place and maintain suitable structures and devices to reduce to a reasonable degree the liability of contact between its transmission lines and telegraph, telephone and other signal wires or power transmission lines constructed prior to its transmission lines and not owned by the Licensee, and shall also place and maintain suitable structures and devices to reduce to a reasonable degree the liability of any structures or wires falling or obstructing traffic or endangering life. None of the provisions of this article are intended to relieve the Licensee from any responsibility or requirement which may be imposed by any other lawful authority for avoiding or eliminating inductive interference.

**Article 15.** The Licensee shall, for the conservation and development of fish and wildlife resources, construct, maintain, and operate, or arrange for the construction, maintenance, and operation of such reasonable facilities, and comply with such reasonable modifications of the project structures and operation, as may be ordered by the Commission upon its own motion or upon

the recommendation of the Secretary of the Interior or the fish and wildlife agency or agencies of any State in which the project or a part thereof is located, after notice and opportunity for hearing.

**Article 16.** Whenever the United States shall desire, in connection with the project, to construct fish and wildlife facilities or to improve the existing fish and wildlife facilities at its own expense, the Licensee shall permit the United States or its designated agency to use, free of cost, such of the Licensee's lands and interests in lands, reservoirs, waterways and project works as may be reasonably required to complete such facilities or such improvements thereof. In addition, after notice and opportunity for hearing, the Licensee shall modify the project operation as may be reasonably prescribed by the Commission in order to permit the maintenance and operation of the fish and wildlife facilities constructed or improved by the United States under the provisions of this article. This article shall not be interpreted to place any obligation on the United States to construct or improve fish and wildlife facilities or to relieve the Licensee of any obligation under this license.

**Article 17.** The Licensee shall construct, maintain, and operate, or shall arrange for the construction, maintenance, and operation of such reasonable recreational facilities, including modifications thereto, such as access roads, wharves, launching ramps, beaches, picnic and camping areas, sanitary facilities, and utilities, giving consideration to the needs of the physically handicapped, and shall comply with such reasonable modifications of the project, as may be prescribed hereafter by the Commission during the term of this license upon its own motion or upon the recommendation of the Secretary of the Interior or other interested Federal or State agencies, after notice and opportunity for hearing.

**Article 18.** So far as is consistent with proper operation of the project, the Licensee shall allow the public free access, to a reasonable extent, to project waters and adjacent project lands owned by the Licensee for the purpose of full public utilization of such lands and waters for navigation and for outdoor recreational purposes, including fishing and hunting: Provided, That the Licensee may reserve from public access such portions of the project waters, adjacent lands, and project facilities as may be necessary for the protection of life, health, and property.

**Article 19.** In the construction, maintenance, or operation of the project, the Licensee shall be responsible for, and shall take reasonable measures to prevent, soil erosion on lands adjacent to streams or other waters, stream sedimentation, and any form of water or air pollution. The Commission, upon request



or upon its own motion, may order the Licensee to take such measures as the Commission finds to be necessary for these purposes, after notice and opportunity for hearing.

**Article 20.** The Licensee shall clear and keep clear to an adequate width lands along open conduits and shall dispose of all temporary structures, unused timber, brush, refuse, or other material unnecessary for the purposes of the project which results from the clearing of lands or from the maintenance or alteration of the project works. In addition, all trees along the periphery of project reservoirs which may die during operations of the project shall be removed. All clearing of the lands and disposal of the unnecessary material shall be done with due diligence and to the satisfaction of the authorized representative of the Commission and in accordance with appropriate Federal, State, and local statutes and regulations.

**Article 21.** Material may be dredged or excavated from, or placed as fill in, project lands and/or waters only in the prosecution of work specifically authorized under the license; in the maintenance of the project; or after obtaining Commission approval, as appropriate. Any such material shall be removed and/or deposited in such manner as to reasonably preserve the environmental values of the project and so as not to interfere with traffic on land or water. Dredging and filling in a navigable water of the United States shall also be done to the satisfaction of the District Engineer, Department of the Army, in charge of the locality.

**Article 22.** Whenever the United States shall desire to construct, complete, or improve navigation facilities in connection with the project, the Licensee shall convey to the United States, free of cost, such of its lands and rights-of-way and such rights of passage through its dams or other structures, and shall permit such control of its pools, as may be required to complete and maintain such navigation facilities.

**Article 23.** The operation of any navigation facilities which may be constructed as a part of, or in connection with, any dam or diversion structure constituting a part of the project works shall at all times be controlled by such reasonable rules and regulations in the interest of navigation, including control of the level of the pool caused by such dam or diversion structure, as may be made from time to time by the Secretary of the Army.

**Article 24.** The Licensee shall furnish power free of cost to the United States for the operation and maintenance of navigation facilities in the vicinity of the project at the voltage and frequency required by such facilities and at a point adjacent

thereto, whether said facilities are constructed by the Licensee or by the United States.

**Article 25.** The Licensee shall construct, maintain, and operate at its own expense such lights and other signals for the protection of navigation as may be directed by the Secretary of the Department in which the Coast Guard is operating.

**Article 26.** If the Licensee shall cause or suffer essential project property to be removed or destroyed or to become unfit for use, without adequate replacement, or shall abandon or discontinue good faith operation of the project or refuse or neglect to comply with the terms of the license and the lawful orders of the Commission mailed to the record address of the Licensee or its agent, the Commission will deem it to be the intent of the Licensee to surrender the license. The Commission, after notice and opportunity for hearing, may require the Licensee to remove any or all structures, equipment and power lines within the project boundary and to take any such other action necessary to restore the project waters, lands, and facilities remaining within the project boundary to a condition satisfactory to the United States agency having jurisdiction over its lands or the Commission's authorized representative, as appropriate, or to provide for the continued operation and maintenance of nonpower facilities and fulfill such other obligations under the license as the Commission may prescribe. In addition, the Commission in its discretion, after notice and opportunity for hearing, may also agree to the surrender of the license when the Commission, for the reasons recited herein, deems it to be the intent of the Licensee to surrender the license.

**Article 27.** The right of the Licensee and of its successors and assigns to use or occupy waters over which the United States has jurisdiction, or lands of the United States under the license, for the purpose of maintaining the project works or otherwise, shall absolutely cease at the end of the license period, unless the Licensee has obtained a new license pursuant to the then existing laws and regulations, or an annual license under the terms and conditions of this license.

**Article 28.** The terms and conditions expressly set forth in the license shall not be construed as impairing any terms and conditions of the Federal Power Act which are not expressly set forth herein.

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Appendix A

Summary and conditions of the Water Quality Certification for the Weybridge Project (FERC No. 2731), Issued by the VDEC on May 7, 2001. Such conditions are included in the new license.

Based on its review of the applicant's proposal and the above findings, the Department concludes that there is reasonable assurance that operation and maintenance of the Weybridge Hydroelectric Project as proposed by the applicant and in accordance with the following conditions will not cause a violation of Vermont Water Quality Standards and will be in compliance with sections 301, 302, 303, 306, and 307 of the Federal Clean Water Act, P.L. 92-500, as amended, and other appropriate requirements of state law:

- A. The applicant shall operate and maintain this project consistent with the findings and conditions of this certification, where those findings and conditions relate to protection of water quality and support of designated and existing uses under Vermont Water Quality Standards and other appropriate requirements of state law.
- B. **Flow Management.** Except as allowed in Condition C below, the project shall be operated to provide conservation flows of 125 cfs in the Bypass and the West Channel and 125 cfs in the East Channel. When the project is not operating, the total conservation flow of 250 cfs shall be maintained using a Taintor gate release into the Bypass. During the period April 1 -June 15, the project shall be operated with a stable impoundment in a true run-of-river mode (outflow equal to impoundment inflow on an instantaneous basis). Upon a written request by the Department, the applicant shall increase the April -May conservation flow for the Bypass to 250 cfs. The request shall follow the Department's receipt of a written notification from the Department of Fish and Wildlife that walleye management has been instituted for the Vergennes impoundment. The Department of Fish and Wildlife shall provide the applicant with a copy of the notification, which shall include a walleye management plan with a stocking schedule. The Department may suspend this spring flow requirement upon a determination that walleye management has been abandoned or discontinued. Minimum flows shall be released on a continuous basis and not interrupted. Operations shall utilize the

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proposed ramping protocols and the maximum 24-hour generating release cycling ratio of 4.5: 1.

- C. **Impoundment Management.** During the spring run-of-river period, the impoundment shall be maintained no more than three inches below the flashboard crest (three inches below 174.3 feet NGVD), unless the flashboard section needs to be manually tripped, in which case it would be reset within 24 hours of the river stabilizing. During the remainder of the year, the impoundment shall not be drawn more than 2.0 feet below the flashboard crest, unless necessary for dam maintenance or operator safety, or due to a non-power emergency beyond the control of the applicant. Planned, non-emergency drawdowns shall be subject to prior consultation with and approval by the Department, with the intent that drawdowns in excess of 2.0 feet are to be avoided to the extent feasible, and if not avoidable, timed to minimize adverse impacts.
- D. **Flow Distribution Structure.** The applicant shall construct a flow distribution structure at the lower end of the Bypass to provide for compliance with the conservation flows required in this certification. The structure shall be designed in accordance with the criteria set forth in Finding 50 above and shall use a low profile to minimize flooding of the Bypass. The design shall be filed with the Department within 120 days of issuance of this certification and shall be subject to Department approval. The design shall include a rating that shows the expected apportionment of flows between the West and East channels, including apportionment when total project releases decline below 250 cfs. The structure shall be designed to limit dewatering of habitat in the Main Channel when the station is off line. The design shall include provisions for one or more devices to accommodate upstream and downstream fish movement between the Main Channel and the Bypass. The design shall also include the proposed implementation schedule and an erosion control plan. The erosion control plan shall include a description of how flows are to be managed during the construction period. No construction shall commence until Department approval is received.
- E. **Flow Management Plan.** The applicant shall develop and file with the Department a flow management plan detailing how the project will be operated to

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comply with the conservation flow and impoundment fluctuation limitations set forth in this certification. The plan shall include information on how the project will be managed to control lag times and avoid related non-compliance with the conservation flow requirements. The plan shall also incorporate information on ramping, complying with the 4.5: 1 cycling ratio, and managing run-of-river spring operations. After Department approval of the plan, the plan shall be filed with FERC no later than 120 days from the date of license issuance. FERC shall either approve the plan or return the plan to the applicant for revision to incorporate FERC-recommended changes. After revision, the applicant shall submit the plan to the Department for approval of the changes. The plan shall then be filed with FERC for final approval. The Department reserves the right of review and approval of any material changes made to the plan.

- F. **Flow Distribution Structure Performance Reports.** For the first five years of use, the applicant shall file annual reports with the Department detailing the performance of the flow distribution structure. The reports shall be filed within 60 days of the end of the calendar year and shall include information on the stability of the flow rating, the reliability of the fish movement devices, and structural damage, if any. Visual observations shall be made at least monthly between December and March and at least once every two weeks between April and November, and the observations shall be documented in the annual reports. The annual reports shall include any recommendations on structural modifications and any opinions on expected long-term effectiveness of the structure. Should it be determined after the fifth year that the structure does not reliably maintain conservation flows and cannot reasonably be adapted to perform as intended, the applicant shall propose an alternate method for compliance. Should it be determined that the structure will no longer be used for maintenance of conservation flows, the applicant shall remove the structure and restore the river channel.
- G. **Flow Management during Impoundment Refill.** Following an approved maintenance drawdown and assuming that refill cannot otherwise be reasonably accomplished, up to 10 percent of instantaneous project inflow may be placed in storage in order to refill the impoundment without significantly reducing downstream flows.

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- H. **Monitoring Plan for Impoundment and Flow Management.** The applicant shall develop a plan for continuous monitoring of flow releases at the project (Taintor gate releases into the Bypass, discharges from the powerhouse, and spillage, if any), impoundment levels, and inflows. The plan shall provide for an initial field verification of the design flow distribution at the flow distribution structure and periodic field measurements thereafter to assure that the distribution has not changed; the point of compliance in the West Channel shall be located below the two islands at the channel entrance (about 1,000 feet below the proposed flow distribution structure). The applicant shall maintain continuous records of flows and impoundment levels and provide such records on a regular basis as per specifications of the Department. The plan shall be developed in consultation with the Department and the U.S. Fish and Wildlife Service. After Department approval of the plan, the plan shall be filed with FERC no later than 120 days from the date of license issuance. FERC shall either approve the plan or return the plan to the applicant for revision to incorporate FERC-recommended changes. After revision, the plan shall be filed for Department approval. The plan shall then be filed with FERC for final approval. The Department reserves the right of review and approval of any material changes made to the plan.
- I. **Tailrace Dissolved Oxygen Monitoring.** The applicant shall monitor tailrace dissolved oxygen concentrations at the dam during the period July -September when generation has been suspended for at least 48 hours. The purpose of the monitoring is to determine if special freshening flows are needed to assure that substandard dissolved oxygen conditions are not produced by plant shutdowns. The applicant shall file a plan of study within 90 days of issuance of this certification for Department approval, with sampling to be initiated during the first season following license issuance. Should the monitoring disclose a problem, the applicant shall propose a remedial measure, subject to Department approval. Monitoring results shall be filed on or before December 31 of the sampling year. The applicant may cease monitoring when the Department determines that adequate representative data has been collected consistent with the study plan.
- J. **Prevention of Fish Entrainment at Intake.** Prior to the next replacement of the intake trashrack, the applicant shall consult with the Department of Fish and Wildlife with respect to trashrack design to determine the appropriate bar clear

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spacing and shall file the trashrack design information with the Department of Environmental Conservation for approval prior to commencement of work.

- K. **Turbine Rating Curves.** The applicant shall provide the Department with a copy of the turbine rating curves, accurately depicting the flow/production relationship, for the record within one year of the issuance of the license.
- L. **Debris Disposal Plan.** The applicant shall develop a plan for proper disposal of debris associated with project operation, including trashrack debris. The plan shall be developed in consultation with the Department. After Department approval of the plan, the plan shall be filed with FERC no later than 120 days from the date of license issuance. FERC shall either approve the plan or return the plan to the applicant for revision to incorporate FERC-recommended changes. After revision, the applicant shall submit the plan to the Department for approval of the changes. The plan shall then be filed with FERC for final approval. The Department reserves the right of review and approval of any material changes made to the plan at any time.
- M. **Maintenance and Repair Work.** Any proposals for project maintenance or repair work, including desilting, drawdowns in excess of 2.0 feet below the crest of the flashboards to facilitate repair/maintenance work, and tailrace dredging, shall be filed with the Department for prior review and approval, if said work may have a material adverse effect on water quality or cause less-than-full support of an existing use or a beneficial value or use of State waters.
- N. **Public Access.** The applicant shall allow public access to the project lands for utilization of public resources, subject to reasonable safety and liability limitations. Such access should be prominently and permanently posted so that its availability is made known to the public. Any proposed limitations of access to State waters to be imposed by the applicant shall first be subject to written approval by the Department. In cases where an immediate threat to public safety exists, access may be restricted without prior approval; the applicant shall so notify the Department and shall file a request for approval, if the restriction is to be permanent or long term, within 14 days of the restriction of access.

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- O. **Recreational Facilities.** Recreational facilities shall be constructed and maintained consistent with a recreation plan approved by the Department. The plan shall be filed with the Department within 60 days of license issuance and shall include an updated implementation schedule. If changes to current plan are contemplated, the applicant is advised to consult with the Department in the development of revised plans. The applicant shall investigate and propose, if feasible, improvement of the existing canoe access or relocation to a riverbank location that is less steep and provides for safer use. Where appropriate, the recreation plans shall include details on erosion control. Modifications to the recreation plan shall also be subject to Department approval over the term of the license.
- P. **Erosion Control.** Upon a written request by the Department, the applicant shall design and implement erosion control measures as necessary to address erosion occurring as a result of use of the project lands for recreation. Any work that exceeds minor maintenance shall be subject to prior approval by the Department and FERC.
- Q. **Compliance Inspection by Department.** The applicant shall allow the Department to inspect the project area at any time to monitor compliance with certification conditions.
- R. **Posting of Certification.** A copy of this certification shall be prominently posted within the project powerhouse.
- S. **Approval of Project Changes.** Any change to the project that would have a significant or material effect on the findings, conclusions, or conditions of this certification, including project operation, must be submitted to the Department for prior review and written approval where appropriate and authorized by law and only as related to the change proposed.



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- T. **Reopening of License.** The Department may request, at any time, that FERC reopen the license to consider modifications to the license as necessary to assure compliance with Vermont Water Quality Standards.
  
- U. **Continuing Jurisdiction.** The Department reserves the right to add and alter the terms and conditions of this certification, when authorized by law and as appropriate to carry out its responsibilities with respect to water quality during the life of the project.

Canute E. Dalmasse

Commissioner

By \_\_\_\_\_ Wallace McLean, Director  
Water Quality Division

Department of Environmental Conservation

Dated at Waterbury , Vermont

this 7th day of May , 2001