



John L. Ragonese
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June 7, 2023

VIA ELECTRONIC FILING

Honorable Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, D.C. 20426

**Re: Great River Hydro, LLC; FERC Project Nos. 1855-050, 1892-030 and 1904-078
Submission of Revised Final License Application**

Dear Secretary Bose:

Great River Hydro, LLC (Great River Hydro) as licensee, owner, and operator hereby submits revised Exhibits A through D to the Bellows Falls Project Final License Application (FLA), and a revised Exhibit E for the Bellows Falls, Wilder and Vernon Projects FLAs. The current license for each of the Projects expired on April 30, 2019. By notice dated May 9, 2019, FERC authorized Great River Hydro to continue operation of each of the Projects until such time as the Commission acts on its application for a subsequent license. The initial FLAs were filed on May 1, 2017¹ and amended on December 7, 2020². Great River Hydro filed a Settlement Agreement for Fish Passage (FPSA) between itself and the U.S. Department of Interior Fish and Wildlife Service (USFWS), New Hampshire Fish and Game Department (NHFG), and Vermont Department of Fish and Wildlife (VDFW) on August 3, 2022³. The FPSA constitutes agency recommended terms and conditions for inclusion in the new licenses with regard to fish passage. Accompanying the FPSA were updated Exhibit D Table D-1's to reflect the costs and schedule for implementing the plan and schedule outlined in the agreement at each project. With this filing, Great River Hydro revises Exhibits A through D to the Bellows Falls Project FLA to reflect its modified proposal to install a 680 kW minimum flow turbine generator at the Bellows Falls dam, specifically designed to pass the proposed 300 cfs minimum flow into the bypassed reach below the dam. Great River Hydro also submits revisions to Exhibit E for the Bellows Falls, Wilder and Vernon Projects to reflect the proposed minimum flow unit and the FPSA.

¹ Accession Nos. 20170501-5425 through 20170501-5427 and 20170501-5430 through 20170501-5433.

² Accession Nos. 20201207-5219 through 20201207-5231

³ Accession No. 20220803-4124

On August 30, 2022, Great River Hydro entered into a Power Purchase Agreement (PPA) with VEPP, Inc., a not-for-profit Vermont corporation that administers two of Vermont's Renewable Energy Programs under contract with the Vermont Public Utility Commission. VEPP is a Standard Offer Facilitator for Standard Offer Plants; it acquires electric power from Vermont renewable resources and then distributes it to all 17 Vermont utilities on a pro rata basis. VEPP manages a renewable power portfolio of nearly 100 MW. The PPA is tied to the development of the proposed minimum flow unit at the Bellows Falls Project.

Great River Hydro, together with its proposed turbine supplier, Natel Energy Inc. (Natel) held pre-filing consultation meetings with federal and state resource agencies on the proposed minimum flow turbine at the Bellows Falls dam. Great River Hydro included Natel in these meetings because its Restoration Hydro Turbine (RHT) has been shown to have little to no effect on fish species passed through the turbine, including adult American Eel. Agency stakeholders were introduced to the innovative fish friendly design, learned of other installations and the scope of survival and injury studies performed to date. Documentation of the consultation meetings and emails are attached, as well as answers (to the extent possible) to questions raised by agency stakeholders. On April 21, 2023, a set of draft revisions to Exhibits A through D of the Bellows Falls FLA and Exhibit E of the Bellows Falls, Wilder and Vernon Projects FLA were provided to agency stakeholders for review and comment. Emailed comments were received from New Hampshire Department of Environmental Services (NHDES), Vermont Department of Environmental Conservation (VDEC), VDFW, and USFWS. The comments were addressed in the final revisions. Both comment letters and a responsiveness summary are attached.

Revisions to Exhibits A through D, including Table D-1, of the Bellows Falls FLA pertain only to the proposed minimum flow unit. Revisions to Exhibit E include both the proposed minimum flow unit at the Bellows Falls dam and the FPSA for the Bellows Falls, Wilder and Vernon Projects. Previously filed application revisions specific to and filed with the FPSA were limited to updated Exhibit D, Table D-1s reflecting the stipulated fish passage mitigation and enhancement costs. Included with this eFiling are clean versions of the revised Exhibits and versions with tracked changes to the December 2020 FLA; both versions are PDF documents with distinct file names.

Great River Hydro trusts that the timing of this filing will not delay the pending issuance of the Notice of Projects as Ready for Environmental Analysis (REA Notice) for its FLAs based on the pre-filing consultation with relevant state and federal agencies and by addressing all the comments in these revised exhibits. Further opportunities to comment on the proposed minimum flow unit will be available once the REA Notice is issued.

If there are further questions regarding this matter, please contact me at 603-498-2851 or jragonese@greatriverhydro.com. Thank you for your consideration.

Sincerely,



John L. Ragonese
FERC License Manager

Attachments:

Agency Consultation:

- Responsiveness Summary to agency comments on draft revisions to FLA Exhibits
- NH DES comments on draft revisions to FLA Exhibits dated May 22, 2023
- USFWS, VDFW and VDEC comments on draft revisions to FLA Exhibits and follow-up emails dated May 22, 2023
- Documentation of the agency consultation meetings and emails

Revised FLA Exhibits - clean

- Bellows Falls Project Exhibits A through D
- Wilder, Bellows Falls and Vernon Projects Exhibit E

Revised FLA Exhibits – tracked changes on the December 2020 amended application.

- Bellows Falls Project Exhibits A through D
- Wilder, Bellows Falls and Vernon Projects Exhibit E

Agency Consultation Attachment 1

Responsiveness Summary to agency comments on draft revisions to FLA Exhibits

Responsiveness Summary of Great Reiver Hydro to Agency review of proposed revisions to the to the Bellows Falls Final License Application (Amended December 2020)

New Hampshire Department of Environmental Service comments and Great River Hydro Responses

1. On May 19, 2023, NHDES met with staff of the U.S. Fish and Wildlife Service (USFWS) and Vermont Department of Conservation (VT DEC) to discuss the draft revisions and amendments to the FLA. Based on that consultation, and subsequent emails from the New Hampshire Fish and Game Department, NHDES supports the comments that USFWS submitted to you earlier today.

GRH Response:

Acknowledged. See our responses to U.S. Fish and Wildlife Service (USFWS) and Vermont Department of Conservation (VT DEC) comments below.

2. Section 2.2 of Exhibit E – GRH stated the following: “The minimum flow of 300 cfs [cubic feet per second] will be maintained in the bypassed reach and provided under non-spill and non-emergency periods through the proposed 680kW minimum flow unit at the dam described in more detail (sic) in Exhibit A, Section A3.”

NHDES can find no description of how GRH would provide the minimum flow 300 cfs to the bypass reach when the Natel RHT is not operating after it is installed. NHDES recommends that GRH revise the appropriate section(s) of the FLA to describe how GRH will provide the minimum flow to the bypass reach when the Natel RHT is not operating.

GRH Response:

In the revised Exhibit B, Section 1.3 Proposed Operations, it states, “During maintenance or emergencies, when the unit is out of service, spilling over the dam crest or through gates will provide the required minimum flow into the bypassed reach.” That statement has been added to Exhibit E, Section 2.2 as it was noted as missing and important to reiterate.

3. Section 3.6.2.10 of Exhibit E – GRH stated the following: “This turbine, due to its innovative design elements has been shown to successfully pass American eel at survival rates up to 100% and no major internal or external injuries present after a holding period (Watson et al., 2022).”

NHDES recommends that GRH revise this section of the FLA to summarize minor internal or external injuries of American eel that are discussed in Watson et al., 2022 that may have been caused by a Natel RHT; and to described how results of testing described in Watson et al., 2022, which was conducted in a laboratory setting with a Natel RHT with certain specifications and with certain eel sizes, can be applied to the Bellow’s Falls proposed Natel RHT installation considering the range of eel, fish, or other aquatic organisms that may pass through the Natel RHT.

GRH Response:

The following has been added to Exhibit E, Section 3.6.2.10.

“In Watson et al., 2022, injury rates were quantified for Group 1 (33.9-50.7 cm total length) and Group 2 (46.5-65.5 cm total length). Injury categories were loss of equilibrium, lethargy,

gill hemorrhaging, abrasion, bruising, external hemorrhaging, wounds, redness, and discoloration. For Group 1, results of Fisher's exact test indicated that none of the proportions of observed injuries were significant among the treatment group compared to the control group ($P > 0.05$). For Group 2, results of Fisher's exact test indicated that gill hemorrhaging was the only significant injury type ($P = 0.0108$). Gill hemorrhaging, apparent as bleeding from the gill region, was observed immediately after passage for some individuals and did not persist longer than the 5-min observation time post-turbine exposure for any eel. Of the subset of 37 eels assessed by X-ray, only one treatment eel and three control eels possessed spinal irregularities, none of which could be attributed to the turbine or handling procedures."

See the response to NHDES Comment 4 regarding how the results of preexisting tests conducted with RHT designs may be interpreted for the proposed Bellows Falls application.

4. Section 3.6.2.10 of Exhibit E – During a presentation about the Natel RHT on December 2, 2022, GRH informed resource agencies that a Natel RHT had been installed at the Freedom Falls Project in Freedom, Maine and at the Monroe Hydroelectric Project in Madras, Oregon; and that Natel Energy had conducted other fish passage tests of Natel RHTs for Rainbow Trout and Juvenile Alewife with Pacific Northwest National Laboratory and Kleinschmidt Associates, respectively. During the presentation, a representative of Natel Energy stated the following: "a second paper describing a test showing safe passage of juvenile alewife at Freedom, ME RHT hydro facility has also just been accepted for publication in North American Journal of Fisheries Management; date of publication TBD (but hopefully soon!)."

NHDES recommends that GRH revise Section 3.6.2.10 of Exhibit E to describe the results and publications of all testing and studies of Natel RHT's that may indicate how well the proposed Natel RHT for the Project would pass fish or other aquatic life.

GRH Response:

See GRH Response to NHDES Comment 3 regarding alewife evaluation and the publication of the "second paper".

Descriptions and results from additional evaluations performed at the Natel recirculating hydraulic test facility in Alameda, California on Rainbow trout, Bluegill and Channel catfish I was there have been included in Exhibit E Section 3.6.2.10.

5. Section 3.6.2.8 of Exhibit E – GRH stated the following: "Great River Hydro, state and federal fishery agencies held consultation meetings throughout 2021 and part of 2022 with the goal of reaching agreement on downstream fish passage enhancements at Vernon, Bellows Falls and Wilder under respective new licenses. On August 2, 2022, an executed Settlement Agreement on Fish Passage between these parties was filed with the Commission. The Settlement Agreement resolves all issues related to the appropriate prescriptions for downstream fish passage at the Projects under the new licenses pursuant to Section 18 of the Federal Power Act ("FPA")¹ and the Parties' recommended terms and conditions related to fish passage under Sections 10(a) and 10(j) of the FPA. It specifies a schedule for implementation of passage measures and enhancements as well as pre-construction design and consultation tasks and post-construction effectiveness evaluations. In the August 2, 2022 filing, updated Exhibit D Table D-1's were submitted that reflect the measures and schedule. Section 18 prescriptions as well as recommendations (sic) under Sections (10(a) and 10(j) are

expected to correspond with those provided in the Settlement Agreement but will not be submitted until the Applications are Ready for Environmental Analysis.” In an updated Exhibit D, Table D-1, NHDES notes that GRH lists “Eel Downstream Passage improvement effectiveness evaluations” as a proposed, post-license environmental measure of the Project.

NHDES recommends that GRH revise the appropriate section(s) of the FLA to describe if and how it plans to assess downstream passage of fish, other than eel, or other aquatic life through the Natel RHT.

GRH Response:

GRH has no plans to assess downstream passage of fish, or other aquatic life through the Natel RHT other than American eel. GRH is proposing to assess American eel turbine survival as it was required to under ILP Study 19. No other species were requested to be evaluated at the Bellows Falls Project during the ILP Study Phase. Additionally, as noted in Exhibit E (with calculations provided to the resource agencies), 1.) the average velocity through the 445 square foot proposed trashrack is calculated to be 0.97 feet per second (FPS); 2.) average velocity through a reduced 231 square foot area of trash rack directly above the unit is 1.88 fps and; 3.) the average velocity of the flow through the modified portion of the Stanchion Bay #1 which conveys water through the spillway to the concrete intake structure is less than 0.71 fps. All of these velocities are under the threshold of 2.0 fps established by the US Fish and Wildlife Service which prompts concerns for impingement and entrainment.

US Fish and Wildlife Service, Vermont Department of Environmental Conservation and VT Department of Fish and Wildlife collective comments and Great River Hydro responses

1. Exhibit A provides a narrative description of the Bellows Falls bypass turbine proposal. We recommend additional language to help the reader understand the overall design. For example, calling the area where water enters the concrete tower a 'forebay' and the horizontal rack a 'floor screen' may help visualize what the structures will look like. A 3-D rendering also would assist in placing the various structures spatially.

GRH Response:

A 3D rendering is unavailable at this time. The narrative description in Exhibit A will be revised to improve understanding of the design.

2. The proposal calls for 2-inch-clear horizontal racks. Given that GRH will be undertaking studies to assess whether the Restoration Hydro Turbine (RHT) is a safe route of passage, the Agencies do not object to the proposed rack spacing. However, USFWS (Service) design criteria calls for ¾-inch spacing or less to protect eels from entrainment. Therefore, should study results indicate the RHT does not provide safe, timely, or effective passage for eels, supplemental passage and protection measures may be needed.

GRH Response:

GRH understands the final determination of the effect on American eel with regards to turbine survival and injury and whether additional protection measure may be needed will depend upon the results of the post-commissioning studies.

3. The information provided indicates velocities in the vicinity of the rack will range from 0.71 feet per second (fps) to 1.88 fps. These velocities are based on a flow of 300 cfs. However,

Exhibit B states the maximum hydraulic capacity of the RHT will be 340 cfs. Please include velocity estimates for a maximum generation of 340 cfs through the RHT, as well as an indication of how frequently the RHT would operate at this higher flow.

GRH Response:

The average velocity through the entire trash rack if the flow was 340 cfs would be 1.1 fps; and for the concentrated area as described above the unit, 2.1 fps; and at the entrance to the forebay at the dam from the head pond, 0.8 fps. However, it is unlikely the unit will operate at its maximum discharge except under additional bypass spill conditions or immediately preceding additional bypass spill as it is more efficient to pass flow through the primary station units given the greater head at the station. Typically, once the primary station capacity is reached the additional 20-40 cfs flow gained by maximizing the minimum flow unit discharge would be very temporary, as it would be highly likely that one of the proposed new spill gates would need to be opened GRH may operate the unit so that it passes slightly more than 300 cfs to ensure the minimum flow is discharged. In theory, the unit could pass up to 320 cfs before the concentrated area above the unit would reach a velocity of 2.0 fps.

4. The concrete tower has two 'bays': one with the RHT and the other with a set of triable stoplogs. We recommend providing a description of how these different bays would typically operate. For example, is the gate for the RHT bay usually fully open to provide flow to the RHT, with the gate for the river-right bay closed off, and only opened during high/flood flow conditions?

GRH Response:

The forebay is a single bay opened to the headpond at the dam and that has a floor screen on one half and a solid concrete floor on the other half. Flow in the forebay either passes through the units or through one of the new gates or stop log sections.

5. Figure A-13 of Exhibit A shows a section view (SL-2) of the intake, gates, control house, and turbine. During previous conversations on this proposal, the Agencies had expressed concern with the rock excavation line, as it suggests the potential for high velocity impact of any fish using the RHT as a passage route. Our recollection is GRH was open to redesigning the excavation line to have a more gently sloped downstream excavation line. Please clarify if this drawing is the most up to date. If it is not, please update the figure to show the most recent design of the tailrace excavation and associated plunge pool.

GRH Response:

Figure A-13 of Exhibit A is the most current cross sectional drawing. The discussion between agencies and GRH/Natel was concerning a previously shared drawing that depicted an upward sloping draft tube. The Figures in Exhibit A are not final engineering or construction drawings, and no estimation of rock excavation has been made. Rather the depiction is intended to remove the upward slope of the draft tube as requested by the agencies and yet attempt to conform with the natural rock outcrop and reduce back pressure.

6. In Exhibit E, GRH proposes to undertake a study to assess whether the RHT offers a safe route of passage for American eels. The study will be developed in consultation with and approved by the Agencies. We support this proposal and anticipate a study design similar to what Natel (manufacturer of the RHT) has used at projects in Maine and Oregon (including necropsy or x-ray technologies).

GRH Response:

We acknowledge this comment and confirm that that is GRH's intent, to the extent we can employ such technologies and evaluations in an effective manner at the Bellows Falls dam.

Agency Consultation Attachment 2

NH DES comments on draft revisions to FLA Exhibits dated May 22, 2023

John Ragonese

From: Tilley, James <James.W.Tilley@des.nh.gov>
Sent: Monday, May 22, 2023 4:50 PM
To: John Ragonese
Cc: Jennifer Griffin; Brandon Kibbe; Will, Lael; Chuck Mekus; Jeff Blaney; Erin O'Dea; swhite@rockcreekenergygroup.com; Julia Wood; Grader, Melissa; Sprankle, Ken; Crocker, Jeff; Holmes, Erin; Davis, Eric; Carpenter, Matthew; stephen.kartalia@ferc.gov; Nicholas Tackett; Houston, Judith
Subject: RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good afternoon, John,

Thank you for submitting, on behalf of Great River Hydro, LLC (GRH), draft revisions and amendments of the Final License Application (FLA) for relicensing of the Bellows Falls Project (Project) to the New Hampshire Department of Environmental Services (NHDES) for review.

GRH's draft revisions and amendments to the FLA are primarily related to GRH's proposal to install a proposed 680-kilowatt turbine generator that would pass minimum flows at the dam of the Project. The proposed turbine generator is Natel Energy's Restoration Hydro Turbine (Natel RHT).

NHDES has reviewed the draft revisions and amendments and provides the following comments:

1. On May 19, 2023, NHDES met with staff of the U.S. Fish and Wildlife Service (USFWS) and Vermont Department of Conservation (VT DEC) to discuss the draft revisions and amendments to the FLA. Based on that consultation, and subsequent emails from the New Hampshire Fish and Game Department, NHDES supports the comments that comments that USFWS submitted to you earlier today.
2. Section 2.2 of Exhibit E – GRH stated the following: “The minimum flow of 300 cfs [cubic feet per second] will be maintained in the bypassed reach and provided under non-spill and non-emergency periods through the proposed 680kW minimum flow unit at the dam described in more detail (sic) in Exhibit A, Section A3.”

NHDES can find no description of how GRH would provide the minimum flow 300 cfs to the bypass reach when the Natel RHT is not operating after it is installed. NHDES recommends that GRH revise the appropriate section(s) of the FLA to describe how GRH will provide the minimum flow to the bypass reach when the Natel RHT is not operating.

3. Section 3.6.2.10 of Exhibit E – GRH stated the following: “This turbine, due to its innovative design elements has been shown to successfully pass American eel at survival rates up to 100% and no major internal or external injuries present after a holding period (Watson et al., 2022).”

NHDES recommends that GRH revise this section of the FLA to summarize minor internal or external injuries of American eel that are discussed in Watson et al., 2022 that may have been caused by a Natel RHT; and to describe how results of testing described in Watson et al., 2022, which was conducted in a laboratory setting with a Natel RHT with certain specifications and with certain eel sizes, can be applied to the Bellows Falls proposed Natel RHT installation considering the range of eel, fish, or other aquatic organisms that may pass through the Natel RHT.

4. Section 3.6.2.10 of Exhibit E – During a presentation about the Natel RHT on December 2, 2022, GRH informed resource agencies that a Natel RHT had been installed at the Freedom Falls Project in Freedom, Maine and at the Monroe Hydroelectric Project in Madras, Oregon; and that Natel Energy had conducted other fish passage tests of Natel RHTs for Rainbow Trout and Juvenile Alewife with Pacific Northwest National Laboratory and Kleinschmidt Associates, respectively. During the presentation, a representative of Natel Energy stated the following: “a second paper describing a test showing safe passage of juvenile alewife at Freedom, ME RHT hydro facility has also just been accepted for publication in North American Journal of Fisheries Management; date of publication TBD (but hopefully soon!).”

NHDES recommends that GRH revise Section 3.6.2.10 of Exhibit E to describe the results and publications of all testing and studies of Natel RHT’s that may indicate how well the proposed Natel RHT for the Project would pass fish or other aquatic life.

5. Section 3.6.2.8 of Exhibit E – GRH stated the following: “Great River Hydro, state and federal fishery agencies held consultation meetings throughout 2021 and part of 2022 with the goal of reaching agreement on downstream fish passage enhancements at Vernon, Bellows Falls and Wilder under respective new licenses. On August 2, 2022, an executed Settlement Agreement on Fish Passage between these parties was filed with the Commission. The Settlement Agreement resolves all issues related to the appropriate prescriptions for downstream fish passage at the Projects under the new licenses pursuant to Section 18 of the Federal Power Act (“FPA”)¹ and the Parties’ recommended terms and conditions related to fish passage under Sections 10(a) and 10(j) of the FPA. It specifies a schedule for implementation of passage measures and enhancements as well as pre-construction design and consultation tasks and post-construction effectiveness evaluations. In the August 2, 2022 filing, updated Exhibit D Table D-1’s were submitted that reflect the measures and schedule. Section 18 prescriptions as well as recommendations (sic) under Sections (10(a) and 10(j) are expected to correspond with those provided in the Settlement Agreement but will not be submitted until the Applications are Ready for Environmental Analysis.” In an updated Exhibit D, Table D-1, NHDES notes that GRH lists “Eel Downstream Passage improvement effectiveness evaluations” as a proposed, post-license environmental measure of the Project.

NHDES recommends that GRH revise the appropriate section(s) of the FLA to describe if and how it plans to assess downstream passage of fish, other than eel, or other aquatic life through the Natel RHT.

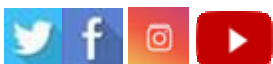
Please note that NHDES may provide additional comments on the Natel RHT during opportunities to provide comments on the FLA under federal regulations implemented by the Federal Energy Regulatory Commission.

Please contact me with any questions or concerns about NHDES’ comments.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



Please consider the environment before printing this email.

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Friday, April 21, 2023 2:56 PM

To: Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Holmes, Erin <erin.l.holmes@des.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Davis, Eric <eric.davis@vermont.gov>; Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; stephen.kartalia@ferc.gov; Nicholas Tackett <Nicholas.Tackett@ferc.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Erin O'Dea <eodea@greatriverhydro.com>; swhite@rockcreekenergygroup.com; Julia Wood <jwood@rockcreekenergygroup.com>
Subject: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

All:

As discussed and promised during pre-filing consultation calls and teleconferences, in September and December 2022, this email provides agencies an opportunity to preview changes GRH is proposing to the Bellows Falls FLA, as amended on December 2020; changes made to incorporate a proposed 680kW minimum flow unit at the Bellows Falls dam.

We have also taken this opportunity to revise the composite Exhibit E to also reflect the Settlement Agreement on Fish Passage that was filed on August 2, 2022. However, due to the large file size, I am unable to attach it to this email. Please use this link to a directory that contains the revised Exhibit E → [Agency Access BF Min Flow files](#). You should be able to download; be sure to change your **review settings** to show **ALL Markups** in order to view it in track changes

Please review the changes and provide us with any comments no later than May 22, 2023 so that we may be able to address them in the final submittal to the FERC either by incorporating them or in a responsive summary. Our goal would be to submit a final revised Bellows Falls Application, including the composite Exhibit E, to the Commission by May 31, 2023. To facilitate review see change guide info below.

Ultimately, we would, of course, appreciate comments that show support for GRH's proposed minimum flow unit that recoups lost non-carbon emitting generation and incorporates state-of-the-art, fish-friendly technology in the design of this project. 😊

Attached or by using a [Link](#) for the larger files as noted below, please find: (If you do not receive this email or cannot open the attachments or links please let me know asap.)

- Revisions to the following Bellows Falls Application Exhibits:
 - Exhibit A** Initial Statement and Exhibit A – primary changes are to Section A3 Proposed Modifications and Enhancements, including new Figures A-10 through A-13;
 - Exhibit B** Project Operations and Resource Utilization – primary changes are to Section B1.3 Proposed Operations and Section B.4 Plans for Future Development
 - Exhibit C** Construction History and Proposed Construction – primary changes are to Section C2 Schedule for Proposed Project Development
 - Exhibit D** Statement of Project Costs and Financing – primary changes are to Section D3 Estimated Capital Cost of New Development; Section D9 Estimated Average Annual Change in Project Generation and Project Power Due to Changes in Project Operation; Table D-1 (separate file attached as pdf and excel); and Table D-3

Exhibit E For Wilder, Bellows Falls And Vernon Projects (79mb) – primary changes are found in (file located at [☐ Agency Access BF Min Flow files](#))

Section 2.2 Great River Hydro’s Proposal – identifying both the proposed Bellows Falls minimum flow unit but also the Settlement Agreement on Fish Passage filed in August 2022 but was not reflected, nor a revised Exhibit E submitted at that time.

Section [3.3.2.3](#) Changes in Discharge characteristics – minor edits and clarifications

Section [3.6.2.7](#) Upstream Passage of Migratory Fish – identifying the Settlement Agreement on Fish Passage re: upstream fish passage

Section [3.6.2.8](#) Downstream Passage of Migratory Fish - identifying the Settlement Agreement on Fish Passage re: downstream fish passage

Section [3.6.2.9](#) Impingement and Entrainment – changes to the Section on Great River Hydro Proposal outlining the proposed minimum flow unit at Bellows Falls and estimation of approach velocities and velocity at the proposed 2” trashrack

Section [3.6.2.10](#) Turbine Survival - changes to the Section on Great River Hydro Proposal outlining the proposed minimum flow unit at Bellows Falls and the anticipated high survival/low injury anticipated based on published study ([Watson et al. 2022](#)) and its proposal to develop a study plan in consultation with agencies and conduct post-commission evaluation of turbine survival and injury during first passage season following commission date of the new unit.

Section 4.1.2 Cost and Value of PME Measures – changes reflecting anticipated fish passage costs related to measures agreed upon in the Settlement Agreement on Fish Passage as well as the proposed minimum flow unit at the Bellows Falls dam.

Table 4.1-6 Comparison of energy, capacity, RECs... for Bellows Falls Project – changes reflecting energy generation and nameplate capacity due to minimum flow unit

Table 4.1-8 Estimated Costs for proposed PME at Wilder, Bellows Falls and Vernon Projects – changes in this table reflect both the estimated costs for fish passage measures and the minimum flow unit as outlined in Bellows Falls Application Exh D Table D1

Section 5 Table 5-1 – Average annual energy based on operations model – slight adjustment to reflect estimated energy “recouped” as a result of the Bellows Falls minimum flow versus initial Table 5-1 which presumed spill of the required 300 cfs minimum flow.

Section 5.1 Conclusions – Environmental Measures; Fish Passage – changes reflecting the enhancement and mitigation associated with the Settlement Agreement on Fish Passage

- An excel spreadsheet developed for calculating average velocities at the face of the 2” rack ; both total area average and concentrated area above the unit.
- Compilation Binder of Agency consultation emails regarding the September 9, 2022 and December 12, 2022 pre-filing consultation “MS Teams” meetings. (15 mb) File located at [☐ Agency Access BF Min Flow files](#)
- Agency Consultation Presentation slide deck (18mb). File located at [☐ Agency Access BF Min Flow files](#)

Thank you,

John Ragonese
Great River Hydro, LLC
FERC License Manager
Work/Cell: 603-498-2851
jragonese@greatriverhydro.com

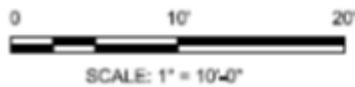
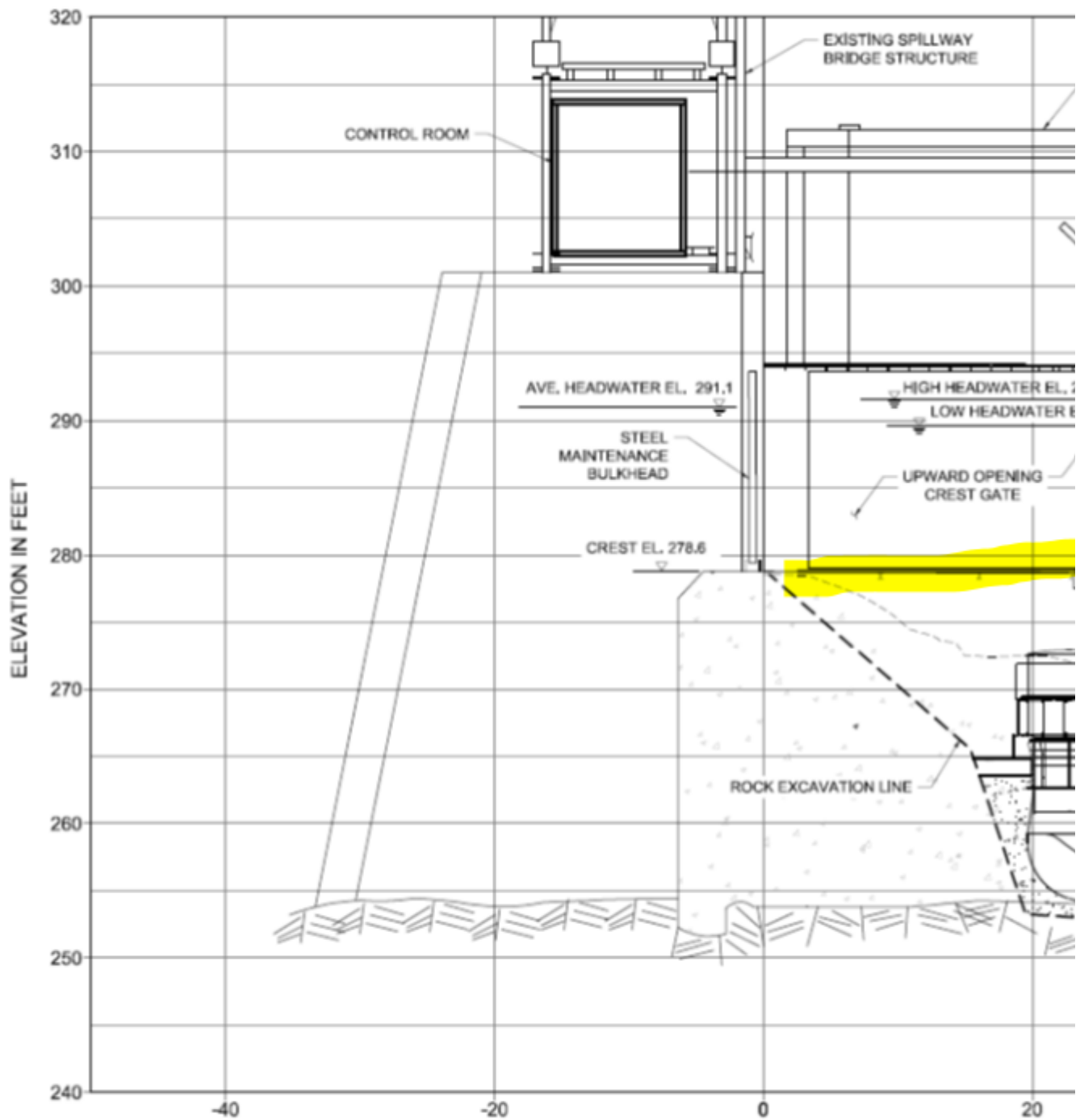
This message may contain information that is privileged or confidential. If you received this transmission in error, please notify the sender by reply e-mail and delete the message and any attachments.

John Ragonese

From: John Ragonese
Sent: Monday, May 22, 2023 4:51 PM
To: Grader, Melissa
Cc: Jennifer Griffin
Subject: RE: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

Its one bulkhead as proposed. The concrete wall that separate the two halves I believe is no higher in elevation than the trash. See elevation highlighted below. But I will check to be sure. Yes maybe 3D would helpful.. Natel was working on that for us.

I'll let you know and see if we can clarify at least in the Exh A.



SECTION SL-1
(@ STA. 0+27.01)

John Ragonese
 FERC License Manager
 Great River Hydro, LLC
 Work/Cell: 603-498-2851
 jragonese@greatriverhydro.com

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Monday, May 22, 2023 4:36 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: Re: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Sorry, not gates, but the steel maintenance bulkhead....are there two, or just one for both bays? Or are there not two bays? It looks like there is a concrete wall separating the bypass flow turbine from the stoplog bay...

If there are two separate bays, are both bays 'open' when the maintenance bulkhead is in the down (or up?) position - so both are full of water, with water only flowing in the left bay (looking downstream)?

If there are not two separate bays and the bulkhead is in the open position, there is just one large open 'forebay', with water only flowing on the left side where the bypass turbine is?

See, this is why 3-D renderings would be helpful! (at least to me LOL)

Melissa Grader

Fish and Wildlife Biologist

Migratory Fish/Hydropower Program

U.S. Fish and Wildlife Service/New England Field Office

103 East Plumtree Road, Sunderland, MA 01375

p: (413) 548-8002 ext 8124 | e-mail: melissa_grader@fws.gov

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Monday, May 22, 2023 4:12 PM
To: Grader, Melissa <melissa_grader@fws.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: RE: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

Ok thanks for the insight Melissa.

The gates are to convey spill flow in excess of the minimum flow. The unit has the capability to pass 340 but it does not make sense to pass any more than the 300 cfs, better to use the station units to the extent possible. Once maxed out its unlikely there would be much likelihood that we would utilize the extra 25-30 cfs. We would do as we always have back down a main unit and spill through a gate. These new gates will let us back down less than the minimum 3000 cfs a foot of opening with the roller gate. So if we were to ever run the unit at 340 cfs, we would probably also be spilling through

one of the new gates at the same time and so the velocities and more preferred pathway would likely be above the racks and through a gate. We can produce the numbers as if there was nothing but 340 cfs and no gated spill but its very unlikely to be a real scenario.

I am not sure what you are referring to as a gate for the RHT but not the other open bay. There is no gate for either – its open to the headpond.

John Ragonese
FERC License Manager
Great River Hydro, LLC
Work/Cell: 603-498-2851
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From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Monday, May 22, 2023 3:34 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: Re: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

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I think they felt like they had additional comments that were more water quality related and rather than have them incorporated into the group's comments, thought having a separate letter was preferable. I think they are going to try to get you comments by COB today.

Melissa Grader

Fish and Wildlife Biologist

Migratory Fish/Hydropower Program

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p: (413) 548-8002 ext 8124 | e-mail: melissa_grader@fws.gov

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Monday, May 22, 2023 3:26 PM
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Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
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Thanks Melissa, all good comments and suggestions in my first quick read through.

Per chance, can you tell my NHDES chose not to be one of the "agencies"? Sort of strikes me as odd.

Do they have additional comments that you all were not in total agreement with or simply felt they need to express the same but independently.

I have nothing from them so presuming they plan to provide them today as well?

John Ragonese

FERC License Manager

Great River Hydro, LLC

Work/Cell: 603-498-2851

jragonese@greatriverhydro.com

From: Grader, Melissa <melissa_grader@fws.gov>

Sent: Monday, May 22, 2023 2:38 PM

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Cc: Brandon Kibbe <bkibbe@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Erin O'Dea <eodea@greatriverhydro.com>; Sprankle, Ken <ken_sprankle@fws.gov>; Will, Lael <lael.will@vermont.gov>; Stephen.Kartalia@ferc.gov; Holmes, Erin <erin.l.holmes@des.nh.gov>; nicholas.tackett <nicholas.tackett@ferc.gov>; swhite@rockcreekenergygroup.com; Julia Wood <jwood@rockcreekenergygroup.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Davis, Eric <Eric.Davis@vermont.gov>; Pica, Jessica E <jessica_pica@fws.gov>

Subject: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

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p: (413) 548-8002 ext 8124 | e-mail: melissa_grader@fws.gov

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Friday, April 21, 2023 2:55 PM

To: Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; james.w.tilley@des.nh.gov <James.W.Tilley@des.nh.gov>; Erin Holmes NHDES <erin.l.holmes@des.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Davis, Eric <eric.davis@vermont.gov>; Will, Lael <lael.will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; stephen.kartalia@ferc.gov <stephen.kartalia@ferc.gov>; Nicholas Tackett <Nicholas.Tackett@ferc.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Erin O'Dea <eodea@greatriverhydro.com>; swhite@rockcreekenergygroup.com <swhite@rockcreekenergygroup.com>; Julia Wood <jwood@rockcreekenergygroup.com>

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Section 3.3.2.3 Changes in Discharge characteristics – minor edits and clarifications

Section 3.6.2.7 Upstream Passage of Migratory Fish – identifying the Settlement Agreement on Fish Passage re: upstream fish passage

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Thank you,

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FERC License Manager
Work/Cell: 603-498-2851

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Agency Consultation Attachment 3

USFWS, VDFW and VDEC comments on draft revisions to FLA Exhibits and
follow-up emails dated May 22, 2023

John Ragonese

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Monday, May 22, 2023 2:38 PM
To: John Ragonese; Jennifer Griffin
Cc: Brandon Kibbe; Chuck Mekus; Jeff Blaney; Erin O'Dea; Sprankle, Ken; Will, Lael; Stephen.Kartalia@ferc.gov; Holmes, Erin; nicholas.tackett; swhite@rockcreekenergygroup.com; Julia Wood; Carpenter, Matthew; Tilley, James; Crocker, Jeff; Davis, Eric; Pica, Jessica E
Subject: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

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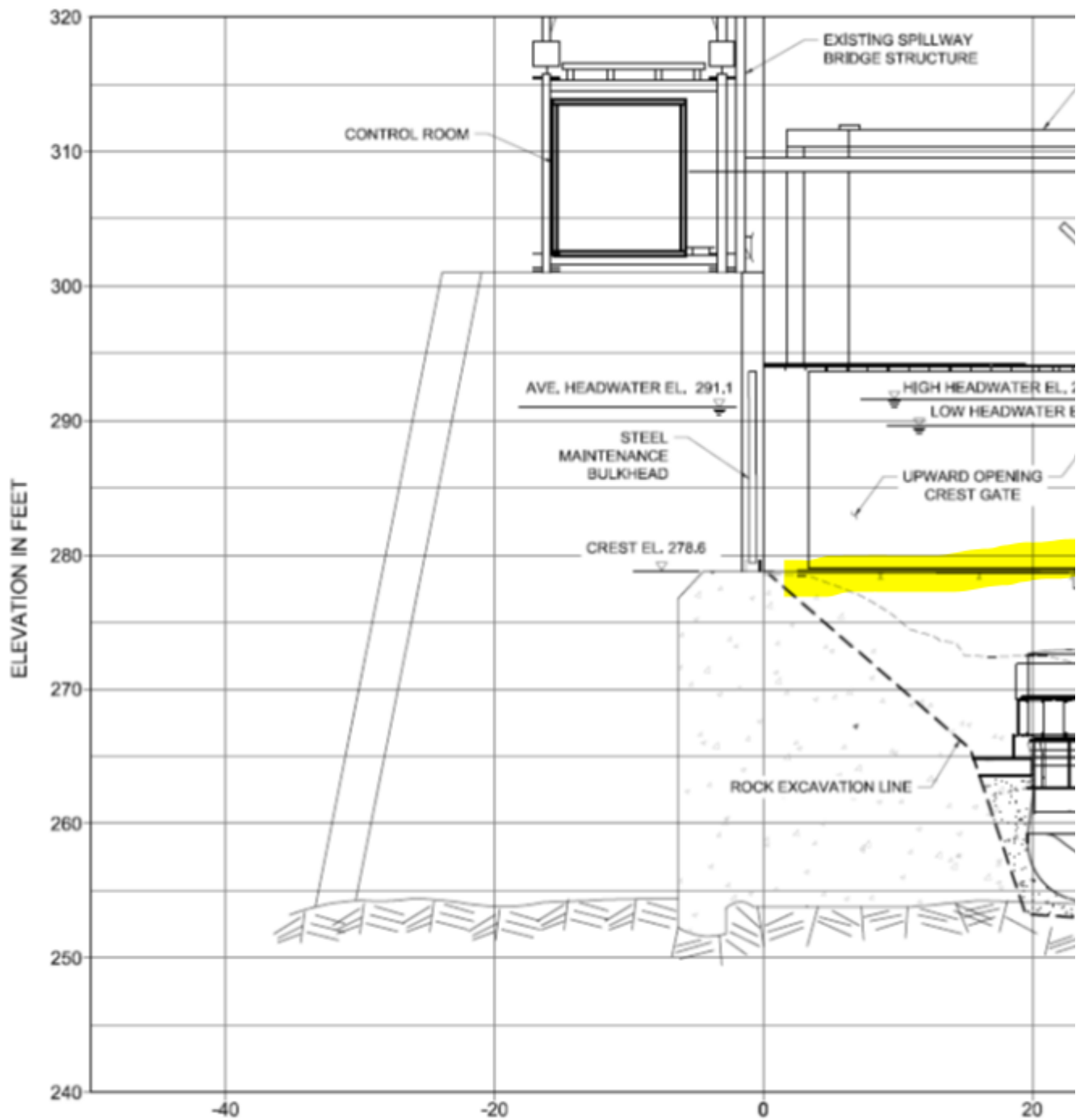
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To: Grader, Melissa
Cc: Jennifer Griffin
Subject: RE: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

Its one bulkhead as proposed. The concrete wall that separate the two halves I believe is no higher in elevation than the trash. See elevation highlighted below. But I will check to be sure. Yes maybe 3D would helpful.. Natel was working on that for us.

I'll let you know and see if we can clarify at least in the Exh A.



SECTION SL-1
 (@ STA. 0+27.01)

John Ragonese
 FERC License Manager
 Great River Hydro, LLC
 Work/Cell: 603-498-2851
 jragonese@greatriverhydro.com

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one of the new gates at the same time and so the velocities and more preferred pathway would likely be above the racks and through a gate. We can produce the numbers as if there was nothing but 340 cfs and no gated spill but its very unlikely to be a real scenario.

I am not sure what you are referring to as a gate for the RHT but not the other open bay. There is no gate for either – its open to the headpond.

John Ragonese
FERC License Manager
Great River Hydro, LLC
Work/Cell: 603-498-2851
jragonese@greatriverhydro.com

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Monday, May 22, 2023 3:34 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: Re: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

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I think they felt like they had additional comments that were more water quality related and rather than have them incorporated into the group's comments, thought having a separate letter was preferable. I think they are going to try to get you comments by COB today.

Melissa Grader

Fish and Wildlife Biologist

Migratory Fish/Hydropower Program

U.S. Fish and Wildlife Service/New England Field Office

103 East Plumtree Road, Sunderland, MA 01375

p: (413) 548-8002 ext 8124 | e-mail: melissa_grader@fws.gov

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Monday, May 22, 2023 3:26 PM
To: Grader, Melissa <melissa_grader@fws.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: [EXTERNAL] RE: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

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Thanks Melissa, all good comments and suggestions in my first quick read through.

Per chance, can you tell my NHDES chose not to be one of the "agencies"? Sort of strikes me as odd.

Do they have additional comments that you all were not in total agreement with or simply felt they need to express the same but independently.

I have nothing from them so presuming they plan to provide them today as well?

John Ragonese

FERC License Manager

Great River Hydro, LLC

Work/Cell: 603-498-2851

jragonese@greatriverhydro.com

From: Grader, Melissa <melissa_grader@fws.gov>

Sent: Monday, May 22, 2023 2:38 PM

To: John Ragonese <jragonese@greatriverhydro.com>; Jennifer Griffin <jgriffin@greatriverhydro.com>

Cc: Brandon Kibbe <bkibbe@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Erin O'Dea <eodea@greatriverhydro.com>; Sprankle, Ken <ken_sprankle@fws.gov>; Will, Lael <lael.will@vermont.gov>; Stephen.Kartalia@ferc.gov; Holmes, Erin <erin.l.holmes@des.nh.gov>; nicholas.tackett <nicholas.tackett@ferc.gov>; swhite@rockcreekenergygroup.com; Julia Wood <jwood@rockcreekenergygroup.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Davis, Eric <Eric.Davis@vermont.gov>; Pica, Jessica E <jessica_pica@fws.gov>

Subject: Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi John/Jen,

The USFWS, VTDEC, VTDFW, and NHDES met to discuss the Bellows Falls bypass turbine information you provided to us. The following feedback (questions, comments, and recommendations) is a combined response from USFWS, VTDEC, and VTDFW (collectively, the Agencies). NHDES will be providing its comments separately.

COMMENTS

1. Exhibit A provides a narrative description of the Bellows Falls bypass turbine proposal. We recommend additional language to help the reader understand the overall design. For example, calling the area where water enters the concrete tower a 'forebay' and the horizontal rack a 'floor screen' may help visualize what the structures will look like. A 3-D rendering also would assist in placing the various structures spatially.
2. The proposal calls for 2-inch-clear horizontal racks. Given that GRH will be undertaking studies to assess whether the Restoration Hydro Turbine (RHT) is a safe route of passage,

the Agencies do not object to the proposed rack spacing. However, USFWS (Service) design criteria calls for 3/4-inch spacing or less to protect eels from entrainment. Therefore, should study results indicate the RHT does not provide safe, timely, or effective passage for eels, supplemental passage and protection measures may be needed.

3. The information provided indicates velocities in the vicinity of the rack will range from 0.71 feet per second (fps) to 1.88 fps. These velocities are based on a flow of 300 cfs. However, Exhibit B states the maximum hydraulic capacity of the RHT will be 340 cfs. Please include velocity estimates for a maximum generation of 340 cfs through the RHT, as well as an indication of how frequently the RHT would operate at this higher flow.
4. The concrete tower has two 'bays': one with the RHT and the other with a set of tripable stoplogs. We recommend providing a description of how these different bays would typically operate. For example, is the gate for the RHT bay usually fully open to provide flow to the RHT, with the gate for the river-right bay closed off, and only opened during high/flood flow conditions?
5. Figure A-13 of Exhibit A shows a section view (SL-2) of the intake, gates, control house, and turbine. During previous conversations on this proposal, the Agencies had expressed concern with the rock excavation line, as it suggests the potential for high velocity impact of any fish using the RHT as a passage route. Our recollection is GRH was open to redesigning the excavation line to have a more gently-sloped downstream excavation line. Please clarify if this drawing is the most up-to-date. If it is not, please update the figure to show the most recent design of the tailrace excavation and associated plunge pool.
6. In Exhibit E, GRH proposes to undertake a study to assess whether the RHT offers a safe route of passage for American eels. The study will be developed in consultation with and approved by the Agencies. We support this proposal, and anticipate a study design similar to what Natel (manufacturer of the RHT) has used at projects in Maine and Oregon (including necropsy or x-ray technologies).

Please let us know if you'd like to discuss any of these comments.

Regards,

Melissa Grader

Fish and Wildlife Biologist

Migratory Fish/Hydropower Program

U.S. Fish and Wildlife Service/New England Field Office

103 East Plumtree Road, Sunderland, MA 01375

p: (413) 548-8002 ext 8124 | e-mail: melissa_grader@fws.gov

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Friday, April 21, 2023 2:55 PM

To: Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; james.w.tilley@des.nh.gov <James.W.Tilley@des.nh.gov>; Erin Holmes NHDES <erin.l.holmes@des.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Davis, Eric <eric.davis@vermont.gov>; Will, Lael <lael.will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; stephen.kartalia@ferc.gov <stephen.kartalia@ferc.gov>; Nicholas Tackett <Nicholas.Tackett@ferc.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Erin O'Dea <eodea@greatriverhydro.com>; swhite@rockcreekenergygroup.com <swhite@rockcreekenergygroup.com>; Julia Wood <jwood@rockcreekenergygroup.com>

Subject: [EXTERNAL] Proposed minimum flow related revisions to 12.2020 Amended Bellows Falls Application

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All:

As discussed and promised during pre-filing consultation calls and teleconferences, in September and December 2022, this email provides agencies an opportunity to preview changes GRH is proposing to the Bellows Falls FLA, as amended on December 2020; changes made to incorporate a proposed 680kW minimum flow unit at the Bellows Falls dam.

We have also taken this opportunity to revise the composite Exhibit E to also reflect the Settlement Agreement on Fish Passage that was filed on August 2, 2022. However, due to the large file size, I am unable to attach it to this email. Please use this link to a directory that contains the revised Exhibit E → [Agency Access BF Min Flow files](#). You should be able to download; be sure to change your **review settings** to show **ALL Markups** in order to view it in track changes

Please review the changes and provide us with any comments no later than May 22, 2023 so that we may be able to address them in the final submittal to the FERC either by incorporating them or in a responsive summary. Our goal would be to submit a final revised Bellows Falls Application, including the composite Exhibit E, to the Commission by May 31, 2023. To facilitate review see change guide info below.

Ultimately, we would, of course, appreciate comments that show support for GRH's proposed minimum flow unit that recoups lost non-carbon emitting generation and incorporates state-of-the-art, fish-friendly technology in the design of this project. 😊

Attached or by using a [Link](#) for the larger files as noted below, please find: (If you do not receive this email or cannot open the attachments or links please let me know asap.)

- Revisions to the following Bellows Falls Application Exhibits:
 - Exhibit A** Initial Statement and Exhibit A – primary changes are to Section A3 Proposed Modifications and Enhancements, including new Figures A-10 through A-13;
 - Exhibit B** Project Operations and Resource Utilization – primary changes are to Section B1.3 Proposed Operations and Section B,4 Plans for Future Development
 - Exhibit C** Construction History and Proposed Construction – primary changes are to Section C2 Schedule for Proposed Project Development

Exhibit D Statement of Project Costs and Financing – primary changes are to Section D3 Estimated Capital Cost of New Development; Section D9 Estimated Average Annual Change in Project Generation and Project Power Due to Changes in Project Operation; Table D-1 (separate file attached as pdf and excel); and Table D-3

Exhibit E For Wilder, Bellows Falls And Vernon Projects (79mb) – primary changes are found in (file located at [Agency Access BF Min Flow files](#))

Section 2.2 Great River Hydro’s Proposal – identifying both the proposed Bellows Falls minimum flow unit but also the Settlement Agreement on Fish Passage filed in August 2022 but was not reflected, nor a revised Exhibit E submitted at that time.

Section 3.3.2.3 Changes in Discharge characteristics – minor edits and clarifications

Section 3.6.2.7 Upstream Passage of Migratory Fish – identifying the Settlement Agreement on Fish Passage re: upstream fish passage

Section 3.6.2.8 Downstream Passage of Migratory Fish - identifying the Settlement Agreement on Fish Passage re: downstream fish passage

Section 3.6.2.9 Impingement and Entrainment – changes to the Section on Great River Hydro Proposal outlining the proposed minimum flow unit at Bellows Falls and estimation of approach velocities and velocity at the proposed 2” trashrack

Section 3.6.2.10 Turbine Survival - changes to the Section on Great River Hydro Proposal outlining the proposed minimum flow unit at Bellows Falls and the anticipated high survival/low injury anticipated based on published study ([Watson et al. 2022](#)) and its proposal to develop a study plan in consultation with agencies and conduct post-commission evaluation of turbine survival and injury during first passage season following commission date of the new unit.

Section 4.1.2 Cost and Value of PME Measures – changes reflecting anticipated fish passage costs related to measures agreed upon in the Settlement Agreement on Fish Passage as well as the proposed minimum flow unit at the Bellows Falls dam.

Table 4.1-6 Comparison of energy, capacity, RECs... for Bellows Falls Project – changes reflecting energy generation and nameplate capacity due to minimum flow unit

Table 4.1-8 Estimated Costs for proposed PME at Wilder, Bellows Falls and Vernon Projects – changes in this table reflect both the estimated costs for fish passage measures and the minimum flow unit as outlined in Bellows Falls Application Exh D Table D1

Section 5 Table 5-1 – Average annual energy based on operations model – slight adjustment to reflect estimated energy “recouped” as a result of the Bellows Falls minimum flow versus initial Table 5-1 which presumed spill of the required 300 cfs minimum flow.

Section 5.1 Conclusions – Environmental Measures; Fish Passage – changes reflecting the enhancement and mitigation associated with the Settlement Agreement on Fish Passage

- An excel spreadsheet developed for calculating average velocities at the face of the 2” rack ; both total area average and concentrated area above the unit.
- Compilation Binder of Agency consultation emails regarding the September 9, 2022 and December 12, 2022 pre-filing consultation “MS Teams” meetings. (15 mb) File located at [Agency Access BF Min Flow files](#)
- Agency Consultation Presentation slide deck (18mb). File located at [Agency Access BF Min Flow files](#)

Thank you,

John Ragonese
Great River Hydro, LLC
FERC License Manager
Work/Cell: 603-498-2851

jragonese@greatriverhydro.com

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Agency Consultation Attachment 4

Documentation of the agency consultation meetings and emails

From: [Abe Schreiber](#)
To: [John Rappone](#); [Will Lad](#); [Carpetone, Matthew](#); [Grueter, Melissa](#); [Sprengle, Ken](#); [Helmus, Eric](#); [Crockett, Jeff](#); [Jennifer Griffin](#); [Chuck Melkus](#); [Brandon Kibbe](#); [Jeff Blaney](#)
Subject: RE: NHERC - NIDES BF minimum flow briefing
Date: 12/12/2022 11:02 AM

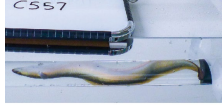
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Thanks Abe,
The proposal
Bill

From: Abe Schreiber <aschreiber@nherc.org>
Sent: Monday, December 12, 2022 1:35 PM
To: Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; Helmus, Eric <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>; Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>
Cc: Will Lad <will.lad@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; Helmus, Eric <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>; Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Hi,
I just connecting but only airplane will turn strong enough to join a Teams meeting!
Lead, let us know what your question are.
Lead, here are some initial responses to your questions, I may need to follow up on some of those.
(1) The proposed RHT at Bellows Falls has a maximum cable diameter of 500 cm, and a hole-to-rod ratio of 0.34, with hole diameter of ~54.4 cm. It has 3 blades, or the maximum blade spacing (ie at the hub) is approximately 37 cm. Given sets of 60-110cm, the ratio of set length to minimum blade spacing will then be between ~1.63-1.93. The corresponding ratio in the set passage test documented in Watson et al 2022 was ~1.58-1.86. Based on our testing so far I do not think we have data that can suggest an increase in spinal injury incidence for sets passing through the Bellows Falls turbine.
(2) The sets held for an additional 11 days were swimming and behaving normally. They were actually subjected to a repeat passage test, under the same turbine operating conditions documented in Watson et al 2022, whereupon 100% of these sets also survived and were then held for an additional period of time. This repeat passage test was presented at the recent [RHT Conference](#) in Strasbourg, France by Sterling Watson, and hopefully a corresponding paper will appear in the formal SHF conference proceedings.
(3) I think "redness" is what was seen in Figure 7(b) if you zoom in very closely. Many of the sets had reddish tint like this when they arrived from the fish farms. I am not sure of the cause but this is something we could probably learn more about (and it's possible my colleagues have the answer already and I can update you once I can touch base with some of them)



(4) All sets showed normal swimming ability and behavior within the 48-hour holding period. Statistical significance was found only for gill hemorrhaging. As noted in the paper, all post-passage inspections were performed within a few minutes of turbine passage (ie nearly immediately) and all gill hemorrhages stopped (without any external intervention) within 1 minute.
(5) I am not aware of us inspecting for presence of the swim bladder nematode. I'll have to check on that and get back to you.

Best regards,
Abe Schreiber
President, CTO
NHERC
1000 Highway 100
St. Albans, VT 05478

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On Mon, Dec 12, 2022 at 9:48 AM Carpetone, Matthew <mcarpetone@bell.ca> wrote:

Thanks Abe,
The RHT looks promising. My questions/concerns related to the Bellows Falls proposal were mostly highlighted in the paper. I will summarize here in case you cannot contact for the meeting.
1) I would expect the size of set/cable sets in the upper Connecticut River watershed to roughly be in the range of 600mm to 1000mm (with some likely larger). What would be the ratio of set length to minimum blade spacing for sets of this size that pass through the proposed Bellows Falls RHT? Could there potentially be a higher incidence of spinal injury for larger sets in the minimum flow turbine?
2) Is there additional information available on the sets that were held for an additional 11 days? Were they behaving and swimming normally?
3) Could you expand on the "redness" injury category? It seems like the redness persisted through the 48h holding period. Any speculation on the cause?
4) It seems like gill hemorrhaging, redness, and lethargy were three injury types more common in treatment sets than in control sets. Did any of the sets with these injury types show signs of change in behavior or swimming ability in the 48 h holding period?
5) Were any of the external sets infested with the swim bladder nematode? I wonder if infection would impact the set's ability to deal with rapid pressure changes.

Thanks,
Matt

From: Will Lad <will.lad@nherc.org>
Sent: Monday, December 12, 2022 11:18 AM
To: Abe Schreiber <aschreiber@nherc.org>
Cc: John Rappone <jrap@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; Tilley, James <james_w_tilley@nherc.org>; Helmus, Eric <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>; Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Mike Parker <mike.parker@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Thanks Abe,
I do have some questions about the e-ray imaging.

From: Abe Schreiber <aschreiber@nherc.org>
Sent: Monday, December 12, 2022 11:09 AM
To: Will Lad <will.lad@nherc.org>
Cc: John Rappone <jrap@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; James W. Tilley <james_w_tilley@nherc.org>; Helmus, Eric <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>; Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Hi,
Just wanted to share that I'll hopefully be able to join the call today but I will be read or on a flight.
If I have connection difficulties and can't effectively join, and there are any questions involving the RHT test, I'm happy to follow up as needed.
Best regards,
Abe Schreiber
President, CTO
NHERC
1000 Highway 100
St. Albans, VT 05478

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On Mon, Dec 12, 2022 at 7:07 AM Will Lad <will.lad@nherc.org> wrote:

I have two questions below.
From: John Rappone <jrap@nherc.org>
Sent: Monday, December 12, 2022 8:58 AM
To: Will Lad <will.lad@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; James W. Tilley <james_w_tilley@nherc.org>; Eric Helmus NIDES <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>
Cc: Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>; Abe Schreiber <aschreiber@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Hi,
We will continue to have the call today but the intent to indicate and specifically point out the pending revisions to the application are not complete. I would like to continue with the call primarily to answer any questions or concerns you may have, such as below, and then re-convene a call if necessary once we send the draft revisions out.
Lead, you sent a couple more questions but only about one concerns below. Are there others you wish to share in advance?
John

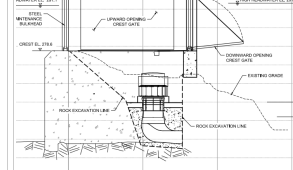
From: Will Lad <will.lad@nherc.org>
Sent: Monday, December 12, 2022 9:00 AM
To: John Rappone <jrap@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; James W. Tilley <james_w_tilley@nherc.org>; Eric Helmus NIDES <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>
Cc: Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>; Abe Schreiber <aschreiber@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Hi John,
Can cover during call today but just a couple more questions. I have you guys take a look to see if there are any areas that fish can become trapped. I'm thinking somewhere in this area.



2. Looks like a 50 phlange post at the outlet, but at 45-degree angle? Should it be more rounded to provide good shape?



From: John Rappone <jrap@nherc.org>
Sent: Monday, December 12, 2022 9:13 AM
To: Will Lad <will.lad@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; James W. Tilley <james_w_tilley@nherc.org>; Eric Helmus NIDES <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>
Cc: Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>; Abe Schreiber <aschreiber@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Here is the pdf of the presentation on the proposed BF minimum flow work.
John

From: Will Lad <will.lad@nherc.org>
Sent: Monday, December 12, 2022 8:48 AM
To: John Rappone <jrap@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; James W. Tilley <james_w_tilley@nherc.org>; Eric Helmus NIDES <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>
Cc: Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>; Abe Schreiber <aschreiber@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Were you going to send out the plans, the PDF you were through on the call? I may have some more questions once I review a bit more. Thanks

From: John Rappone <jrap@nherc.org>
Sent: Wednesday, November 30, 2022 1:11 PM
To: Will Lad <will.lad@nherc.org>; Carpetone, Matthew <mcarpetone@bell.ca>; Grueter, Melissa <mgrueter@nherc.org>; Sprengle, Ken <ken_sprengle@nherc.org>; James W. Tilley <james_w_tilley@nherc.org>; Eric Helmus NIDES <eric_helmus@nherc.org>; Crockett, Jeff <jeff_crockett@nherc.org>
Cc: Jennifer Griffin <jgriffin@nherc.org>; Chuck Melkus <cmelkus@nherc.org>; Mike Parker <mike.parker@nherc.org>; Brandon Kibbe <bkibbe@nherc.org>; Jeff Blaney <jblaney@nherc.org>; Abe Schreiber <aschreiber@nherc.org>
Subject: RE: NHERC - NIDES BF minimum flow briefing

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Lead,
All good questions. We will address them all hopefully.

In simple terms and in the meantime,

Why were the plans for an additional turbine not disclosed/discussed before the MRE/SA was signed? (comment: 2019 PPA contract opportunity) I was not associated with this proposal/offer for use awarded to GHJ until recently. Does the MRE/SA need to be modified to reflect these changes for dam operations and fish passage? There could be a supplemental agreement developed specifically to address issues with this proposal but it would be simplest to discuss them and propose them in the amended revisions to the BF application - hence the pre-filing consultation. This is not a proposed fish passage mitigation but rather a proposed main flow unit that is being designed to consider potential impacts on fish.

Does GHJ have better plans to install more than one turbine in the bypass reach? What is the unit capacity? No, this single unit will be designed to discharge the maximum flow. Very large units have been observed in the BF project area (see attached photos). Flow will be kept within the bypass reach? Will the unit be screened? There only one fish one picture area and one bay, so I will have a rack with adequate spacing and velocity at the face that is below the USFWS criteria. The unit itself should provide extremely high turbine survival for eels, even most of the size in the stream.

What about fish that spill? Are there plans to provide protective measures, such as a plunger pool if needed? What about fish that enter the unit, how are the discharge conditions? We are not including the culverts other than the area and aspects associated with the unit. We are designing the turbine and discharge of the unit and access aspects to the turbine structure to facilitate future installation of an ramp with an entrance area or adjacent to the discharge of the unit.

Will the additional turbine reduce the amount frequency of spill over the dam? The unit is correctly designed to open the proposed minimum flow which is itself a controlled discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.
John

From: Will Lead <will.lead@vermont.gov>
Sent: Wednesday, November 29, 2023 1:02 PM
To: John Rogerson <jrogers@vermont.gov>; Carpenter, Matthew <matthew.carpenter@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Hi John,
Thought it might be helpful to provide some initial thoughts/questions. VTPWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Talk soon.

Why were the plans for an additional turbine not disclosed/discussed before the MRE/SA was signed?
Does the MRE/SA need to be modified to reflect these changes for dam operations and fish passage?
Does GHJ have better plans to install more than one turbine in the bypass reach? What is the unit capacity?
Very large units have been observed in the BF project area (see attached photos). Flow will be kept within the bypass reach? Will the unit be screened?
What about fish that spill? Are there plans to provide protective measures, such as a plunger pool if needed? What about fish that enter the unit, how are the discharge conditions?
Will the additional turbine reduce the amount frequency of spill over the dam?



From: John Rogerson <jrogers@vermont.gov>
Sent: Friday, November 29, 2023 11:24 AM
To: Carpenter, Matthew <matthew.carpenter@vermont.gov>; Will Lead <will.lead@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Hi John, I have shared the earlier scheduled meeting, but unfortunately, had to be in the office. I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carpenter, Matthew <matthew.carpenter@vermont.gov>
Sent: Friday, November 29, 2023 10:20 AM
To: Will Lead <will.lead@vermont.gov>; John Rogerson <jrogers@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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11:00 works for me. Is it okay if I use some other agency staff? I don't know if Doreen Lake (NOAA) and Bryan Siskowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

From: Will Lead <will.lead@vermont.gov>
Sent: Friday, November 29, 2023 10:40 AM
To: John Rogerson <jrogers@vermont.gov>; Carpenter, Matthew <matthew.carpenter@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lead Will, M.S., Fisheries Biologist (Acting)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
602-777-8827 ext. | will.lead@vermont.gov
www.vermont.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Rogerson <jrogers@vermont.gov>
Sent: Friday, November 29, 2023 10:41 AM
To: Will Lead <will.lead@vermont.gov>; Carpenter, Matthew <matthew.carpenter@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Clear disk. Will send out yet another corrected msg for you, Matt and State WO folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Nuel on the call and they are West Coast folks.

From: Will Lead <will.lead@vermont.gov>
Sent: Friday, November 29, 2023 10:50 AM
To: John Rogerson <jrogers@vermont.gov>; Carpenter, Matthew <matthew.carpenter@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Fine by me

Lead Will, M.S., Fisheries Biologist (Acting)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
602-777-8827 ext. | will.lead@vermont.gov
www.vermont.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Rogerson <jrogers@vermont.gov>
Sent: Friday, November 29, 2023 10:51 AM
To: Will Lead <will.lead@vermont.gov>; Carpenter, Matthew <matthew.carpenter@vermont.gov>
Subject: FW: NHFAG - NHEER's BF minimum flow briefing

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Lead,
Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before PERC?
Just to me here.
Keep the 12th for the larger meeting.
Dec 2 would be for any and all that the State WO folks if they can make it.

From: Carpenter, Matthew <matthew.carpenter@vermont.gov>
Sent: Friday, November 29, 2023 10:51 AM
To: John Rogerson <jrogers@vermont.gov>; Will Lead <will.lead@vermont.gov>;
Carpenter, Matthew <matthew.carpenter@vermont.gov>; Tilly, James <james.w.tilly@vermont.gov>;
C.C. Crocker, Matthew <mccrocker@vermont.gov>; Holmes, Eric <eric.holmes@vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mike.parker@vermont.gov>; Will Lead <will.lead@vermont.gov>

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Rogerson <jrogers@vermont.gov>
Sent: Thursday, November 17, 2023 4:51 PM
To: Will, John; Holmes, Eric; Jennifer Griffin <jgriffin@vermont.gov>;
C.C. Crocker, Matthew <mccrocker@vermont.gov>; Holmes, Eric <eric.holmes@vermont.gov>; Tilly, James <james.w.tilly@vermont.gov>; Mike Parker <mike.parker@vermont.gov>; Will Lead <will.lead@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Thanks James.

From: Tilly, James <james.w.tilly@vermont.gov>
Sent: Thursday, November 17, 2023 4:51 PM
To: John Rogerson <jrogers@vermont.gov>
C.C. Crocker, Matthew <mccrocker@vermont.gov>; Holmes, Eric <eric.holmes@vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mike.parker@vermont.gov>; Will Lead <will.lead@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilly
State Wildlife Conservation Supervisor
Wildlife Division, Natural Resources Bureau
200 Main Street, Department of Environmental Services
Montpelier, Vermont
Contact: 802-802-0067
602-777-8800
james.tilly@vermont.gov



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From: John Rogerson <jrogers@vermont.gov>
Sent: Thursday, November 17, 2023 3:10 PM
To: Will Lead <will.lead@vermont.gov>; Crocker, Matt <mccrocker@vermont.gov>; Tilly, James <james.w.tilly@vermont.gov>; Holmes, Eric <eric.holmes@vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mike.parker@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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OK Lead. Thanks.

Every one that 2nd will not work for Matt Carpenter. He can do the Dec 1 date, being glad with it and simply not be able to talk to you on this proposal before I send out a package for agency review and comment.

Can you keep the afternoon of the 12th open at that time and fill in strategy for an agency consultation that day to discuss the package of revisions to the BF application, I will hopefully have distributed by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BF application revision package that will be filed with the PERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----
From: Will Lead <will.lead@vermont.gov>
Sent: Thursday, November 17, 2023 3:00 PM
To: Will Lead <will.lead@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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December 28, 12

Lead Will, M.S., Fisheries Biologist (Acting) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
602-777-8827 ext. | will.lead@vermont.gov
www.vermont.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

-----Original Message-----
From: John Rogerson <jrogers@vermont.gov>
Sent: Thursday, November 17, 2023 3:00 PM
To: Will Lead <will.lead@vermont.gov>
Subject: RE: NHFAG - NHEER's BF minimum flow briefing

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Date...

Sorry,

What is your availability

-----Original Appointment-----

From: Will, Lisa <Lisa.Will@cancom.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Engeman

Subject: Declined: NHPAG - NHEHS BP minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada)

Where: Microsoft Teams Meeting

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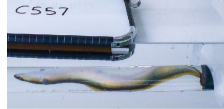
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This message may contain information that is privileged or confidential. If you received this transmission in error, please notify the sender by reply e-mail and delete the message and any attachments.

To: [redacted]
From: [redacted]
Subject: [redacted]
Date: [redacted]
Attachments: [redacted]

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Hi,
I find connecting but early airplanes will not strong enough to join a frame meeting.
Last, let me know what your worry question are.
Main flow are small response to your questions; they need to follow up on some of them.
(1) The proposed RIT at Bellows Falls has a rotor outer diameter of 160 cm, and a hub to tip ratio of 0.34, with hub diameter of ~54.4 cm. It has 3 blades, so the minimum blade spacing (at the hub) is approximately 37 cm. Given air of 60-100cm, the ratio of air length to minimum blade spacing will then be between ~1.65-1.93. The corresponding ratio in the air passage test documented in Watson et al 2022 was ~1.18-1.56. Based on our testing so far I do not think we have data that can suggest an increase in stall angle needed for air passing through the Bellows Falls turbine.
(2) The air held for an additional 11 days were continuing and behaving normally. They were actually subjected to a repeat passage test, under the same turbine operating conditions documented in Watson et al 2022, whereas 100% of those air also survived and were then held for an additional period of time. This repeat passage test was presented at the recent [2023 colloquium](#) in Strasbourg, France by Sterling Watson, and hopefully a corresponding paper will appear in the formal 2023 conference proceedings.
(3) I think "robust" is what can be used in 11 (out of 17) if you're very close. Many of the air also had reddish tint like this when they arrived from the fish farm. I am not sure of the cause but this is something we could probably learn more about (and it's possible my colleagues know the answer already and I can update you once I can touch base with some of them).



(4) All air cells showed normal swimming ability and behavior within the 48-hour holding period. Statistical significance was found only for gill hemorrhaging. As noted in the paper, all post-passage inspections were performed within a few minutes of turbine passage (or nearly immediately) and all gill hemorrhages stopped (without any external intervention) within 7 minutes.
(5) I am not aware of any reported for presence of the swim bladder outside. I'll have to check on that and get back to you.

Best regards,
Alex Schneider
President, CTO
Next Energy, Inc.
e:510.342.5289

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On Mon, Dec 12, 2022 at 9:46 AM Carpenter, Matthew <matthew.carpenter@ndbc.edu> wrote:
Thanks Alex,
The RIT looks promising. My questions/concerns related to the Bellows Falls proposal were mostly highlighted in the paper. I will summarize here in case you cannot connect for the meeting.

- I would expect the rate of air flow into the open Connection River watershed to roughly be in the range of 600mm to 1000mm (with some likely larger). What would be the rate of air length to minimum blade spacing for air of this size that pass through the proposed Bellows Falls RIT? Could there potentially be a higher incidence of spiral injury for larger air in the minimum flow turbine?
- Is there additional information available on the 89 air cells that were held for an additional 11 days? Were they behaving and swimming normally?
- Could you expand on the "robust" injury category? It seems like the robust personal through the 48 holding period. Any operations on the coast?
- It occurs like gill hemorrhaging, surface, and fatigue were three separate issues common to treatment air that in control air. Did any of the air with these injury types show signs of change in behavior or swimming ability in the 48 hr holding period?
- Were any of the enhanced air reflected with the swim bladder necrotic? I wonder if reflection would impact the air's ability to deal with rapid pressure changes.

Thanks,
Matt

From: Will, Laid <Will.Laid@nextenergy.com>
Sent: Monday, December 12, 2022 11:14 AM
To: Alex Schneider <alex@nextenergy.com>
Cc: John Ruppert <rupp@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@ndbc.edu>; Grader, Melissa <melissa.grader@nextenergy.com>; Spink, Ken <ken.spink@nextenergy.com>; Tilly, James <james.w.tilly@nextenergy.com>; Holmes, Eric <eric.holmes@nextenergy.com>; Crocker, Jeff <jeff.crocker@nextenergy.com>; Jennifer Griffin <jennifer.griffin@nextenergy.com>; Chuck Melus <chuck.melus@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kibbe <brandon.kibbe@nextenergy.com>; Jeff Boney <jeff.boney@nextenergy.com>; Alex Schneider <alex@nextenergy.com>
Subject: RE: NIF&C - NIDES HF minimum flow briefing

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Thanks Alex,
I do have some questions about the 11 day imaging.

From: Alex Schneider <alex@nextenergy.com>
Sent: Monday, December 12, 2022 11:09 AM
To: Will, Laid <Will.Laid@nextenergy.com>
Cc: John Ruppert <rupp@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@ndbc.edu>; Grader, Melissa <melissa.grader@nextenergy.com>; Spink, Ken <ken.spink@nextenergy.com>; Tilly, James <james.w.tilly@nextenergy.com>; Holmes, Eric <eric.holmes@nextenergy.com>; Crocker, Jeff <jeff.crocker@nextenergy.com>; Jennifer Griffin <jennifer.griffin@nextenergy.com>; Chuck Melus <chuck.melus@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kibbe <brandon.kibbe@nextenergy.com>; Jeff Boney <jeff.boney@nextenergy.com>; Alex Schneider <alex@nextenergy.com>
Subject: RE: NIF&C - NIDES HF minimum flow briefing

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Hi,
Just wanted to share that I'll hopefully be able to join the call today but I will be read air on a flight.
If I have connection difficulties and can't effectively join, and there are any questions involving the RIT unit, I'm happy to follow up as needed.

Best regards,
Alex Schneider
President, CTO
Next Energy, Inc.
e:510.342.5289

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On Mon, Dec 12, 2022 at 7:07 AM Will, Laid <Will.Laid@nextenergy.com> wrote:
I have two questions below

From: John Ruppert <rupp@nextenergy.com>
Sent: Monday, December 12, 2022 11:09 AM
To: Will, Laid <Will.Laid@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@ndbc.edu>; Grader, Melissa <melissa.grader@nextenergy.com>; Spink, Ken <ken.spink@nextenergy.com>; Tilly, James <james.w.tilly@nextenergy.com>; Holmes, Eric <eric.holmes@nextenergy.com>; Crocker, Jeff <jeff.crocker@nextenergy.com>; Jennifer Griffin <jennifer.griffin@nextenergy.com>; Chuck Melus <chuck.melus@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kibbe <brandon.kibbe@nextenergy.com>; Jeff Boney <jeff.boney@nextenergy.com>; Alex Schneider <alex@nextenergy.com>
Subject: RE: NIF&C - NIDES HF minimum flow briefing

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All,
We will continue to have the call today but the intent to indicate and specifically point out the pending revisions to the application are not complete. I would like to continue with the call primarily to answer any questions or concerns you may have, such as below, and then re-configure a call if necessary once we send the draft revisions out.

Laid, you stated a couple more questions but only about one concern below. Are there others you wish to share in advance?

John

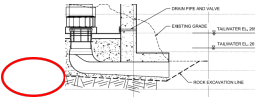
From: Will, Laid <Will.Laid@nextenergy.com>
Sent: Monday, December 12, 2022 9:00 AM
To: John Ruppert <rupp@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@ndbc.edu>; Grader, Melissa <melissa.grader@nextenergy.com>; Spink, Ken <ken.spink@nextenergy.com>; Tilly, James <james.w.tilly@nextenergy.com>; Holmes, Eric <eric.holmes@nextenergy.com>; Crocker, Jeff <jeff.crocker@nextenergy.com>; Jennifer Griffin <jennifer.griffin@nextenergy.com>; Chuck Melus <chuck.melus@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kibbe <brandon.kibbe@nextenergy.com>; Jeff Boney <jeff.boney@nextenergy.com>; Alex Schneider <alex@nextenergy.com>
Subject: RE: NIF&C - NIDES HF minimum flow briefing

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Hi John,
Can cover during call today but just a couple more questions. 1. Have you guys taken a look to see if there are any areas that fish can become trapped. I'm thinking somewhere in this area.



2. Looks like a 18 plating pool in the middle, but at 45-degree angle? Should it be more rounded to provide pool shape?



From: John Rapson <jrapson@vermont.gov>
Sent: Friday, December 10, 2022 9:18 AM
To: Will, Leif <leif@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>; Gruber, Melissa <mgruber@vermont.gov>; Spaulink, Ron <rspaulink@vermont.gov>; Erin Holmes-NIHES <erinholmes@vermont.gov>; Crowder, Jeff <jcrowder@vermont.gov>;
Cc: Jennifer Griffin <jgriffin@vermont.gov>; Christopher, Chad <chad@vermont.gov>; John Parker <jparker@vermont.gov>; Brandon Kilby <brkilby@vermont.gov>; Jeff Blaney <jblaney@vermont.gov>; Alex Schwab <aschwab@vermont.gov>
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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Here is the pdf of the presentation on the proposed BF minimum flow suit.

John

From: Will, Leif <leif@vermont.gov>
Sent: Monday, December 13, 2022 8:46 AM
To: John Rapson <jrapson@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Cc: Jennifer Griffin <jgriffin@vermont.gov>
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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Was you going to send out the plans, that PDF you went through on the call? I may have some more questions once I review a bit more. Thanks

From: John Rapson <jrapson@vermont.gov>
Sent: Wednesday, November 30, 2022 1:31 PM
To: Will, Leif <leif@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Cc: Jennifer Griffin <jgriffin@vermont.gov>
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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Leif,
All good questions. We will address them all hopefully.

In simple terms and in the meantime,
Why were the plans for an additional turbine not discussed/discussed before the MOUSA was signed? Vermont's 20 yr PPA contract opportunity #2 was not assessed nor was the proposal applied for nor awarded to GRH until recently.
Does the MOUSA need to be modified to reflect these changes for dam operations and fish passage? There could be a supplemental agreement developed specifically to address issues with this proposal but it would be simpler to discuss them and propose them in the amended revisions to the BF application - hence the pre-filing consultation. This is not a proposed fish passage mitigation but rather a proposed min flow suit that is being designed to consider potential impacts on fish.
Does GRH have future plans to install more than one turbine in the bypass reach? What is the suit capacity? No, this single suit will be designed to discharge the minimum flow.
Very large and have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the suit be screened? I have only seen this one picture over and over but you, it will have a rack with adequate spacing and velocities at the face that are below the USFWS criteria. The suit itself should provide extremely high turbine survival for eels, even ones of the size in the picture.
What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the suit, how are the discharge conditions? We are redesigning the gateway other than the area and aspects associated with the suit. We are designing the turbine and discharge of the suit and access aspects to the turbine deviation to facilitate future installation of a net ramp with an entrance near or adjacent to the discharge of the suit.
Will the additional turbine reduce the amount/frequency of spill over the dam? The suit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.
John

From: Will, Leif <leif@vermont.gov>
Sent: Wednesday, November 30, 2022 1:02 PM
To: John Rapson <jrapson@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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Hi John,
Thought it might be helpful to provide some initial thoughts/questions VEPWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Talk soon

Why were the plans for an additional turbine not discussed/discussed before the MOUSA was signed?
Does the MOUSA need to be modified to reflect these changes for dam operations and fish passage?
Does GRH have future plans to install more than one turbine in the bypass reach? What is the suit capacity?
Very large and have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the suit be screened?
What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the suit, how are the discharge conditions?
Will the additional turbine reduce the amount/frequency of spill over the dam?

VERMONT
Leif Will, M.S. | Fisheries Biologist (fish/bio)
Vermont Agency of Natural Resources | Department of Fish & Wildlife
Fisheries Division
100 Mineral St. | Springfield, VT 05156-0001
603-775-9827 ext. | leif@vermont.gov
www.vermont.gov

From: John Rapson <jrapson@vermont.gov>
Sent: Friday, November 18, 2022 11:29 AM
To: Carpenter, Matthew <mcarpenter@vermont.gov>; Will, Leif <leif@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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Fine Matt. They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.
I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carpenter, Matthew <mcarpenter@vermont.gov>
Sent: Friday, November 18, 2022 10:13 AM
To: Will, Leif <leif@vermont.gov>; John Rapson <jrapson@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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1:00 works for me. Is it okay if I invite some other agency staff? I don't know if Rjones Lake (NOAA) and Bryan Szykowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Leif <leif@vermont.gov>
Sent: Friday, November 18, 2022 10:42 AM
To: John Rapson <jrapson@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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I don't have anything scheduled for the earlier the better for me.

Leif Will, M.S. | Fisheries Biologist (fish/bio)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-0001
603-775-9827 ext. | leif@vermont.gov
www.vermont.gov

The Agency of Natural Resources respects individual, and there are those who I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Rapson <jrapson@vermont.gov>
Sent: Friday, November 18, 2022 10:30 AM
To: Will, Leif <leif@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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Okie dookie. Will send out just another corrected msg for you, Matt and State WO folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Neal on the call and they are West Coast folks

From: Will, Leif <leif@vermont.gov>
Sent: Friday, November 18, 2022 10:30 AM
To: John Rapson <jrapson@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Cc: Carpenter, Matthew <mcarpenter@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

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From: Will, Leif <leif@vermont.gov>
Sent: Friday, November 18, 2022 10:30 AM
To: John Rapson <jrapson@vermont.gov>; Carpenter, Matthew <mcarpenter@vermont.gov>;
Cc: Carpenter, Matthew <mcarpenter@vermont.gov>;
Subject: RE: NH AG - NHDES's BF minimum flow briefing

The Agency of Natural Resources respects individual, and there are those who I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Ragnese <jragnese@nwr.gov>
Sent: Friday, November 18, 2022 10:53 AM
To: Will Lued <Will.Lued@nwr.gov>
Cc: Carpenter, Matthew <mcarpenter@nwr.gov>
Subject: FW: NIFAG - NIDES BP minimum flow briefing

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Luc,

Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BP application before PERC?

Just let me know.

Keep the 12th for the larger meeting.
Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carpenter, Matthew <mcarpenter@nwr.gov>
Sent: Friday, November 18, 2022 10:43 AM
To: John Ragnese <jragnese@nwr.gov>; Tilley, James <James.W.Tilley@nwr.gov>
Cc: Crocker, Jeff <jcrocker@nwr.gov>; Holmes, Erin <Erin.L.Holmes@nwr.gov>; Jennifer Griffin <jgriffin@nwr.gov>; Mike Parker <mikeparker@nwr.gov>; Will Lued <Will.Lued@nwr.gov>
Subject: RE: NIFAG - NIDES BP minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragnese <jragnese@nwr.gov>
Sent: Thursday, November 17, 2022 4:53 PM
To: Tilley, James <James.W.Tilley@nwr.gov>
Cc: Carpenter, Matthew <mcarpenter@nwr.gov>; Crocker, Jeff <jcrocker@nwr.gov>; Holmes, Erin <Erin.L.Holmes@nwr.gov>; Jennifer Griffin <jgriffin@nwr.gov>; Mike Parker <mikeparker@nwr.gov>; Will Lued <Will.Lued@nwr.gov>
Subject: RE: NIFAG - NIDES BP minimum flow briefing

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Thanks James.

From: Tilley, James <James.W.Tilley@nwr.gov>
Sent: Thursday, November 17, 2022 4:25 PM
To: John Ragnese <jragnese@nwr.gov>
Cc: Carpenter, Matthew <mcarpenter@nwr.gov>; Crocker, Jeff <jcrocker@nwr.gov>; Holmes, Erin <Erin.L.Holmes@nwr.gov>; Jennifer Griffin <jgriffin@nwr.gov>; Mike Parker <mikeparker@nwr.gov>; Will Lued <Will.Lued@nwr.gov>
Subject: RE: NIFAG - NIDES BP minimum flow briefing

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Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
State Executive Department of Environmental Services
29 House Drive, PO Box 60
Concord, NH 03303-0060
603.771.6609
jtilley@nwr.gov



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From: John Ragnese <jragnese@nwr.gov>
Sent: Thursday, November 17, 2022 3:49 PM
To: Will Lued <Will.Lued@nwr.gov>
Cc: Carpenter, Matthew <mcarpenter@nwr.gov>; Crocker, Jeff <jcrocker@nwr.gov>; Tilley, James <James.W.Tilley@nwr.gov>; Holmes, Erin <Erin.L.Holmes@nwr.gov>; Jennifer Griffin <jgriffin@nwr.gov>; Mike Parker <mikeparker@nwr.gov>
Subject: RE: NIFAG - NIDES BP minimum flow briefing

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OK Luc. Thanks.

Forty nine the 2nd will not work for Matt Carpenter. If he can do the Dec 1 date, I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

Can you keep the afternoon of the 12th open at this time and I'll try to arrange for an agency consultation call that day to discuss the package of revisions to the BP application, I will hopefully have distributed by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BP application revision package that will be filed with the PERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----

From: Will Lued <Will.Lued@nwr.gov>
Sent: Thursday, November 17, 2022 3:33 PM
To: John Ragnese <jragnese@nwr.gov>
Subject: RE: NIFAG - NIDES BP minimum flow briefing

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December 2, 2022

Luc Will, M.S.; Fisheries Biologist (he/him) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Main Street, Suite 302 | Springfield, VT 05156-0101

802-777-0827 ext 101 | lued@nwr.gov

<https://www.facebook.com/vt.dnr/>

<https://www.instagram.com/vt.dnr/>

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in-person upon request.

-----Original Message-----

From: John Ragnese <jragnese@nwr.gov>
Sent: Thursday, November 17, 2022 3:04 PM
To: Will Lued <Will.Lued@nwr.gov>
Subject: RE: NIFAG - NIDES BP minimum flow briefing

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Damn...

Sorry.

What is your availability

-----Original Appointment-----

From: Will Lued <Will.Lued@nwr.gov>
Sent: Thursday, November 17, 2022 3:03 PM
To: John Ragnese

Subject: Declined: NIFAG - NIDES BP minimum flow briefing

When: Thursday, November 17, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada)

Where: Microsoft Teams Meeting

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This message may contain information that is privileged or confidential. If you received this transmission in error, please notify the sender by reply e-mail and delete the message and any attachments.

From: [Alex Schneider](#)
To: [John Regier](#); [Matthew Carpenter](#); [Chris Grader](#); [Matt Sprinkle](#); [Ken Sprinkle](#); [Eris Holmes](#); [Nick Crocker](#); [Alex Schneider](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing
Date: Monday, December 12, 2022 10:58 AM

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Hi John,
The draft below provides the questions related to the below fish passage proposal were mostly highlighted in the paper. I will summarize here in case you cannot connect for the meeting.

- 1. I want to adjust the size of clear area in the upper Connecticut River watershed to roughly be in the range of 400m to 2000m both some fairly large. What would be the cost of and length to minimum blade spacing for this size that pass through the proposed blade fish? Could there potentially be a higher incidence of spiral injury for larger fish in the minimum flow turbine?
- 2. Is there additional information available on the fish that would be an additional 1.5 draft? (Note the following are preliminary questions)
- 3. Could you expand on the "fishway" you propose? It seems like that review period through the AER holding period. Any expansion on the draft?
- 4. It sounds like the fishway, however, and the fish were there before we started the dam. How do we know that the fishway is the same as the fishway that was there before we started the dam?
- 5. Were any of the additional fish affected with the same turbine condition? I wonder if the fishway would impact the fish's ability to deal with rapid pressure changes.

John,
I have some questions about the array imaging.

From: Will Leif [will.leif@vermont.gov](#)
Sent: Monday, December 12, 2022 10:58 AM
To: Will Leif [will.leif@vermont.gov](#)
Cc: John Regier [jregier@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#); Grader, Chris [cgrader@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Holmes, Eris [eholmes@vermont.gov](#); Crocker, Nick [ncrocker@vermont.gov](#); Schneider, Alex [aschneider@vermont.gov](#); Chuck Melus [cmelus@vermont.gov](#); Mike Parker [mparker@vermont.gov](#); Brandon Kibler [bkibler@vermont.gov](#); Jeff Blaney [jblaney@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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Thanks Alex,
I do have some questions about the array imaging.

From: Alex Schneider [aschneider@vermont.gov](#)
Sent: Monday, December 12, 2022 10:58 AM
To: Will Leif [will.leif@vermont.gov](#)
Cc: John Regier [jregier@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#); Grader, Chris [cgrader@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Holmes, Eris [eholmes@vermont.gov](#); Crocker, Nick [ncrocker@vermont.gov](#); Schneider, Alex [aschneider@vermont.gov](#); Chuck Melus [cmelus@vermont.gov](#); Mike Parker [mparker@vermont.gov](#); Brandon Kibler [bkibler@vermont.gov](#); Jeff Blaney [jblaney@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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Will,
I am pleased to share that I'll hopefully be able to join the call today but will be out-of-office for the day.
If I have connector difficulties and can't effectively join, and there are any questions involving the AER, just, I'm happy to follow as needed.
Best regards,
Alex Schneider
President, CTO
North Troy, VT
553.842.2289 x102

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On Mon, Dec 12, 2022 at 10:57 AM Will Leif [will.leif@vermont.gov](#) wrote:

I have two questions below

From: John Regier [jregier@vermont.gov](#)
Sent: Monday, December 12, 2022 10:50 AM
To: Will Leif [will.leif@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#); Grader, Chris [cgrader@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Holmes, Eris [eholmes@vermont.gov](#); Crocker, Nick [ncrocker@vermont.gov](#); Schneider, Alex [aschneider@vermont.gov](#); Chuck Melus [cmelus@vermont.gov](#); Mike Parker [mparker@vermont.gov](#); Brandon Kibler [bkibler@vermont.gov](#); Jeff Blaney [jblaney@vermont.gov](#); Alex Schneider [aschneider@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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Hi,

We will continue to have the call today but the intent to indicate and specifically point out the pending motions to the application are not complete. I would like to continue with the call primarily to answer any questions or concerns you may have, such as below, and then re-convene a call if necessary once we send the draft revisions out.

Let's, you stated a couple more questions but only about one concern below. Are there others you want to share in advance?

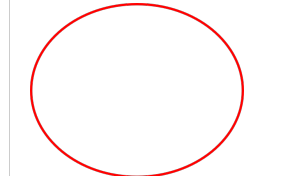
John

From: Will Leif [will.leif@vermont.gov](#)
Sent: Monday, December 12, 2022 9:46 AM
To: John Regier [jregier@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#); Grader, Chris [cgrader@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Holmes, Eris [eholmes@vermont.gov](#); Crocker, Nick [ncrocker@vermont.gov](#); Schneider, Alex [aschneider@vermont.gov](#); Chuck Melus [cmelus@vermont.gov](#); Mike Parker [mparker@vermont.gov](#); Brandon Kibler [bkibler@vermont.gov](#); Jeff Blaney [jblaney@vermont.gov](#); Alex Schneider [aschneider@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

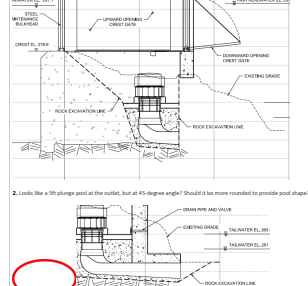
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Hi John,

Can cover during call today but just a couple more questions. If you guys taken a look to see if there are any areas that fish can become trapped. I'm thinking somewhere in this area.



2. Look like a 50' plunge pool at the outlet, but at 45-degree angle? Should it be more rounded to provide pool shape?



From: John Regier [jregier@vermont.gov](#)
Sent: Monday, December 5, 2022 9:18 AM
To: Will Leif [will.leif@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#); Grader, Chris [cgrader@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Sprinkle, Ken [ksprinkle@vermont.gov](#); Holmes, Eris [eholmes@vermont.gov](#); Crocker, Nick [ncrocker@vermont.gov](#); Schneider, Alex [aschneider@vermont.gov](#); Chuck Melus [cmelus@vermont.gov](#); Mike Parker [mparker@vermont.gov](#); Brandon Kibler [bkibler@vermont.gov](#); Jeff Blaney [jblaney@vermont.gov](#); Alex Schneider [aschneider@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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Here is the pdf of the presentation on the proposed 10/20/2022 minimum flow unit.

John

From: Will Leif [will.leif@vermont.gov](#)
Sent: Monday, December 5, 2022 8:41 AM
To: John Regier [jregier@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#)
Cc: Jennifer Griffin [jgriffin@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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Was you going to send out the plan, that PDF you went through on the call? I may have some more questions since I review a bit more. Thanks.

From: John Regier [jregier@vermont.gov](#)
Sent: Wednesday, November 30, 2022 1:01 PM
To: Will Leif [will.leif@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#)
Cc: Jennifer Griffin [jgriffin@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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John

All good questions. We will address them all hopefully.

John

In simple terms and in the meantime.

Why were the plans for an additional turbine not discussed/discussed before the ND/FA was signed? Vermont's 2019 PPA contract opportunity #2 was not announced nor was this proposal applied for nor awarded to GRF until recently.

Does the ND/FA need to be modified to reflect these changes for dam operations and fish passage? There could be a supplemental agreement developed specifically to address issues with the proposal but it would be simpler to discuss them and propose them in the intended revisions to the BP application – hence the pre-filing consultation. This is not a proposed fish passage mitigation but rather a proposed min flow unit that is being designed to consider potential impacts on fish.

Does GRF have future plans to install more than one turbine in the bypass reach? What is the unit capacity? No, this single unit will be designed to discharge the minimum flow.

Why large and have been observed in this BP project area (see attached photos). How will larger fish be protected? Will the unit be removed? I have only seen this one picture over and over but yes, it will have a rack with adequate spacing and velocities at the face that are in the 100FPS criteria. The unit itself should provide extremely high turbine survival for fish, even ones of the size in the picture.

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions? We are designing the spillway and discharge of the unit and access aspects to the turbine operation to facilitate future installation of an spill way with an entrance over or adjacent to the discharge of the unit.

Will the additional turbine reduce the amount/frequency of spill over the dam? The unit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

John

From: Will Leif [will.leif@vermont.gov](#)
Sent: Wednesday, November 30, 2022 1:02 PM
To: John Regier [jregier@vermont.gov](#); Carpenter, Matthew [mcarpenter@vermont.gov](#)
Subject: RE: NRC's 10/20/2022 minimum flow briefing

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Hi John,

Thought it might be helpful to provide some initial thoughts/questions VTWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Thank you.

John

Why were the plans for an additional turbine not discussed/discussed before the ND/FA was signed?

Does the ND/FA need to be modified to reflect these changes for dam operations and fish passage?

Does GRF have future plans to install more than one turbine in the bypass reach? What is the unit capacity?

Why large and have been observed in this BP project area (see attached photos). How will larger fish be protected? Will the unit be removed?

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions?

Will the additional turbine reduce the amount/frequency of spill over the dam?

From: John Regier [jregier@vermont.gov](#)
Sent: Friday, November 18, 2022 11:28 AM

VERMONT
VERMONT DEPARTMENT OF TRANSPORTATION
100 WATER ST., FLOOR 1000, MONTPELIER, VT 05602
PHONE: 802-241-2000
WWW.VT.GOV

To: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>, Will, Lief <Lief.Will@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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For Matt, they may have attended the earlier scheduled meeting, but nonetheless, feel free to state if you need a 15 min catch up on 12/13 and you can forward to them.

From: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>
Sent: Friday, November 18, 2022 10:15 AM
To: Will, Lief <Lief.Will@ny.usdoj.gov>, John Reganese <john.reganese@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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11:00 works for me. It's okay if you make some other agency staff. I don't know if Eppin Lake (NIDAM) and Bryan Lighthouse (SOPARC) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Lief <Lief.Will@ny.usdoj.gov>
Sent: Friday, November 18, 2022 10:42 AM
To: John Reganese <john.reganese@ny.usdoj.gov>, Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lief Will, M.S. Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral State, Suite 302 | Springfield, VT 05156-3168
802-777-9027 ext. | lief.will@ny.usdoj.gov
www.nys.usdoj.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Reganese <john.reganese@ny.usdoj.gov>
Sent: Friday, November 18, 2022 10:38 AM
To: Will, Lief <Lief.Will@ny.usdoj.gov>, Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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Oke doke. Will send out yet another corrected msg for you, Matt and State WG folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CEO from Nidel on the call and they are West Coast folks.

From: Will, Lief <Lief.Will@ny.usdoj.gov>
Sent: Friday, November 18, 2022 10:54 AM
To: John Reganese <john.reganese@ny.usdoj.gov>
Cc: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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Five by five

Lief Will, M.S. Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral State, Suite 302 | Springfield, VT 05156-3168
802-777-9027 ext. | lief.will@ny.usdoj.gov
www.nys.usdoj.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Reganese <john.reganese@ny.usdoj.gov>
Sent: Friday, November 18, 2022 10:53 AM
To: Will, Lief <Lief.Will@ny.usdoj.gov>
Cc: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>
Subject: FW: NIDETS BF minimum flow briefing

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Lief,
Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the LPth that would be associated with the revisions to the current BF application before ERE?
Lief will do this.
Keep the LPth for the larger meeting.
Eric? Possible for just you and Matt and the State WG folks. If they can make it.

From: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>
Sent: Friday, November 18, 2022 10:53 AM
To: John Reganese <john.reganese@ny.usdoj.gov>, Will, Lief <Lief.Will@ny.usdoj.gov>
Cc: Crocker, Jeff <jeff.crocker@ny.usdoj.gov>, Holmes, Eric <eric.holmes@ny.usdoj.gov>, Jennifer Griffin <jennifer.griffin@ny.usdoj.gov>, Mike Parker <mike.parker@ny.usdoj.gov>, Will, Lief <Lief.Will@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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I am available on the LPth. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Reganese <john.reganese@ny.usdoj.gov>
Sent: Thursday, November 17, 2022 4:53 PM
To: Tilly, James <james.tilly@ny.usdoj.gov>
Cc: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>, Crocker, Jeff <jeff.crocker@ny.usdoj.gov>, Holmes, Eric <eric.holmes@ny.usdoj.gov>, Jennifer Griffin <jennifer.griffin@ny.usdoj.gov>, Mike Parker <mike.parker@ny.usdoj.gov>, Will, Lief <Lief.Will@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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Thanks James,

From: Tilly, James <james.tilly@ny.usdoj.gov>
Sent: Thursday, November 17, 2022 4:52 PM
To: John Reganese <john.reganese@ny.usdoj.gov>
Cc: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>, Crocker, Jeff <jeff.crocker@ny.usdoj.gov>, Holmes, Eric <eric.holmes@ny.usdoj.gov>, Jennifer Griffin <jennifer.griffin@ny.usdoj.gov>, Mike Parker <mike.parker@ny.usdoj.gov>, Will, Lief <Lief.Will@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilly
Water Quality Verification Supervisor
Water Division, Watershed Management Section
New York State Department of Environmental Conservation
600 New York State Plaza, 6th Fl.
Albany, NY 12242
Contact: We're on hand.
tjilly@ny.usdoj.gov
www.nys.usdoj.gov

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From: John Reganese <john.reganese@ny.usdoj.gov>
Sent: Thursday, November 17, 2022 1:59 PM
To: Will, Lief <Lief.Will@ny.usdoj.gov>
Cc: Carpenter, Matthew <matthew.carpenter@ny.usdoj.gov>, Crocker, Jeff <jeff.crocker@ny.usdoj.gov>, Tilly, James <james.tilly@ny.usdoj.gov>, Holmes, Eric <eric.holmes@ny.usdoj.gov>, Jennifer Griffin <jennifer.griffin@ny.usdoj.gov>, Mike Parker <mike.parker@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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OK Lief. Thanks.

Plays nice the 2nd will not work for Matt Carpenter. If this can do the Dec 1 date. I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

Can you keep the affairs of the 12th open on this time and try to arrange for an agency consultation call that day to discuss the package of revisions to the BF application, I will hopefully have drafted by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment. hopefully arrange a consultation meeting to present them as well. then address the comments in a final BF application review package that will be filed with the FERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----
From: Will, Lief <Lief.Will@ny.usdoj.gov>
Sent: Thursday, November 17, 2022 3:18 PM
To: John Reganese <john.reganese@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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December 2, 8, 12

Lief Will, M.S. Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division
100 Mineral State, Suite 302 | Springfield, VT 05156-3168
802-777-9027 ext. | lief.will@ny.usdoj.gov
www.nys.usdoj.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

-----Original Message-----

From: John Reganese <john.reganese@ny.usdoj.gov>
Sent: Thursday, November 17, 2022 3:04 PM
To: Will, Lief <Lief.Will@ny.usdoj.gov>
Subject: RE: NIDETS BF minimum flow briefing

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Dear...

Surey,

What is your availability

-----Original Appointment-----

From: Will, Lief <Lief.Will@ny.usdoj.gov>
Sent: Thursday, November 17, 2022 3:03 PM
To: John Reganese

Subject: Declined NIDETS - NIDETS BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada)

Where: Microsoft Teams Meeting

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To: [redacted]
From: [redacted]
Subject: [redacted]
Date: [redacted]
Attachments: [redacted]

[INTERNAL EMAIL] (DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.)

Hi,
Just wanted to share that I'll hopefully be able to join the call today but I will be out of town a couple days.
If I have any questions difficult and can't effectively join, and there are any questions regarding the BIFP, I'm happy to follow up on an email.
Best regards,
John Schneider
President, CTO
Next Energy, Inc.
c.510.342.4269 x1002

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The content of this email message and any attachments are intended solely for the address(es) and may contain confidential and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or that agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments. If you are not the intended recipient, you are hereby notified that any use, dissemination, copying, or storage of this message or its attachments is strictly prohibited.

On Mon, Dec 12, 2022 at 7:57 AM Will Luedtke <will@nextenergy.com> wrote:
I have two questions below

From: John Reganese <jreganese@nextenergy.com>
Sent: Monday, December 12, 2022 10:08 AM
To: Will Luedtke <will@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@nextenergy.com>; Grados, Melissa <melissa.grados@nextenergy.com>; Sprankle, Ken <ken.sprankle@nextenergy.com>; James, William <james.williams@nextenergy.com>; Erin Helms-NIHES <erin.helms@nextenergy.com>; Crivello, Jeff <jeff.crivello@nextenergy.com>; Cr. Jennifer Griffin <jgriffin@nextenergy.com>; Chuck Molnar <cmolnar@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kohne <brandon.kohne@nextenergy.com>; Jeff Blaney <jblaney@nextenergy.com>; Alex Schneider <alex.schneider@nextenergy.com>
Subject: RE: NI&R-G- NIHESB BIF minimum flow briefing

EXTERNAL SENDER: Do not open attachments or click on links unless you recognize and trust the sender.

All,

We will continue to have the call today but the intent to indicate and specifically point out the pending revisions to the application are not complete. I would like to continue with the call primarily to answer any questions or concerns you may have, such as below, and then re-convene a call if necessary once we send the draft revisions out.

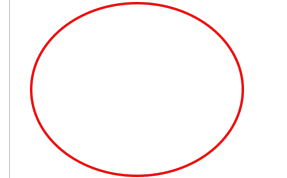
Last, you stated a couple more questions but only asked one concern below. Are there others you wish to share in advance?

John

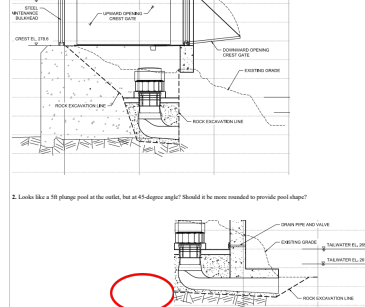
From: Will Luedtke <will@nextenergy.com>
Sent: Monday, December 12, 2022 10:12 AM
To: John Reganese <jreganese@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@nextenergy.com>; Grados, Melissa <melissa.grados@nextenergy.com>; Sprankle, Ken <ken.sprankle@nextenergy.com>; James, William <james.williams@nextenergy.com>; Erin Helms-NIHES <erin.helms@nextenergy.com>; Crivello, Jeff <jeff.crivello@nextenergy.com>; Cr. Jennifer Griffin <jgriffin@nextenergy.com>; Chuck Molnar <cmolnar@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kohne <brandon.kohne@nextenergy.com>; Jeff Blaney <jblaney@nextenergy.com>; Alex Schneider <alex.schneider@nextenergy.com>
Subject: RE: NI&R-G- NIHESB BIF minimum flow briefing

[INTERNAL EMAIL] (DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.)

Hi John,
Can cover during call today but just a couple more questions. I have you guys taken a look to see if there are any areas that fish can become trapped. I'm thinking somewhere in the area.



2. Looks like a 90 degree pool at the outlet, but at 45-degree angle? Should it be more rounded to provide pool slope?



From: John Reganese <jreganese@nextenergy.com>
Sent: Monday, December 12, 2022 10:14 AM
To: Will Luedtke <will@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@nextenergy.com>; Grados, Melissa <melissa.grados@nextenergy.com>; Sprankle, Ken <ken.sprankle@nextenergy.com>; James, William <james.williams@nextenergy.com>; Erin Helms-NIHES <erin.helms@nextenergy.com>; Crivello, Jeff <jeff.crivello@nextenergy.com>; Cr. Jennifer Griffin <jgriffin@nextenergy.com>; Chuck Molnar <cmolnar@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kohne <brandon.kohne@nextenergy.com>; Jeff Blaney <jblaney@nextenergy.com>; Alex Schneider <alex.schneider@nextenergy.com>
Subject: RE: NI&R-G- NIHESB BIF minimum flow briefing

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Here is the pdf of the presentation on the proposed BIF minimum flow rate.

John

From: Will Luedtke <will@nextenergy.com>
Sent: Monday, December 9, 2022 8:40 AM
To: John Reganese <jreganese@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@nextenergy.com>; Grados, Melissa <melissa.grados@nextenergy.com>; Sprankle, Ken <ken.sprankle@nextenergy.com>; James, William <james.williams@nextenergy.com>; Erin Helms-NIHES <erin.helms@nextenergy.com>; Crivello, Jeff <jeff.crivello@nextenergy.com>; Cr. Jennifer Griffin <jgriffin@nextenergy.com>; Chuck Molnar <cmolnar@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kohne <brandon.kohne@nextenergy.com>; Jeff Blaney <jblaney@nextenergy.com>; Alex Schneider <alex.schneider@nextenergy.com>
Subject: RE: NI&R-G- NIHESB BIF minimum flow briefing

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Were you going to send out the plan, that PDF you sent through on the call? I may have some more questions since I review a bit more. Thanks

From: John Reganese <jreganese@nextenergy.com>
Sent: Wednesday, November 30, 2022 11:17 PM
To: Will Luedtke <will@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@nextenergy.com>; Grados, Melissa <melissa.grados@nextenergy.com>; Sprankle, Ken <ken.sprankle@nextenergy.com>; James, William <james.williams@nextenergy.com>; Erin Helms-NIHES <erin.helms@nextenergy.com>; Crivello, Jeff <jeff.crivello@nextenergy.com>; Cr. Jennifer Griffin <jgriffin@nextenergy.com>; Chuck Molnar <cmolnar@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kohne <brandon.kohne@nextenergy.com>; Jeff Blaney <jblaney@nextenergy.com>; Alex Schneider <alex.schneider@nextenergy.com>
Subject: RE: NI&R-G- NIHESB BIF minimum flow briefing

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Last,

All good questions. We will address them all hopefully.

In simple terms and in the meantime,

Why were the plans for an additional turbine not disclosed before the MOHSA was signed? (Version 2.00-PPA contract opportunity #2 was not announced so was this proposal applied for until after the MOHSA was signed?)
Does the MOHSA need to be modified to reflect these changes for dam operations and fish passage?
Does GHJ have better plans to install more than one turbine in the bypass reach? What is the unit capacity? So, this single unit will be designed to discharge the minimum flow.

Very large cell have been observed in the BIF project area (see attached photo). How will larger cells be protected? Will the unit be screened? I have only seen this one picture over and over but you, it will have a rack with adequate spacing and collection at the face that are below the L2FW screen. The unit itself should provide extremely high surface area for cells, even more of the size in the picture.
What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions? We are not redesigning the gateway other than the area and aspects associated with the unit. We are designing the tailrace and discharge of the unit and access aspects to the tailrace structure to facilitate future installation of an oil ramp with an entrance near or adjacent to the discharge of the unit.
Will the additional turbine reduce the amount/frequency of spill over the dam? The unit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.

John

From: Will Luedtke <will@nextenergy.com>
Sent: Wednesday, November 30, 2022 11:17 PM
To: John Reganese <jreganese@nextenergy.com>; Carpenter, Matthew <matthew.carpenter@nextenergy.com>; Grados, Melissa <melissa.grados@nextenergy.com>; Sprankle, Ken <ken.sprankle@nextenergy.com>; James, William <james.williams@nextenergy.com>; Erin Helms-NIHES <erin.helms@nextenergy.com>; Crivello, Jeff <jeff.crivello@nextenergy.com>; Cr. Jennifer Griffin <jgriffin@nextenergy.com>; Chuck Molnar <cmolnar@nextenergy.com>; Mike Parker <mike.parker@nextenergy.com>; Brandon Kohne <brandon.kohne@nextenergy.com>; Jeff Blaney <jblaney@nextenergy.com>; Alex Schneider <alex.schneider@nextenergy.com>
Subject: RE: NI&R-G- NIHESB BIF minimum flow briefing

[INTERNAL EMAIL] (DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.)

Hi John,

Thought it might be helpful to provide some initial thoughts/questions VTFWD has prior to the meeting on Friday. I'm sure you are already prepared for those but thought I'd pass along anyway. Talk soon

Why were the plans for an additional turbine not disclosed before the MOHSA was signed?
Does the MOHSA need to be modified to reflect these changes for dam operations and fish passage?
Does GHJ have better plans to install more than one turbine in the bypass reach? What is the unit capacity?
Very large cell have been observed in the BIF project area (see attached photo). How will larger cells be protected? Will the unit be screened?
What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions?
Will the additional turbine reduce the amount/frequency of spill over the dam?



Led With M.S.: Fisheries Biologist (fishbio)
 Vermont Agency of Natural Resources | Department of Fish & Wildlife
 Fisheries Division
 100 Memorial Ave., Springfield, VT 05108-0100
 802-777-9027 ext. 446
ledwith.ms@vermont.gov
www.vermont.gov

From: John Ragnone <jragnone@montpelier.vt.gov>
 Sent: Friday, November 18, 2022 11:28 AM
 To: Carptone, Matthew <mcarptone@montpelier.vt.gov>; Will, Laid <Laid.Will@vermont.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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 Fine Matt, They may have attended the earlier scheduled meeting but nonetheless, feel free to invite.
 I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carptone, Matthew <mcarptone@montpelier.vt.gov>
 Sent: Friday, November 18, 2022 10:43 AM
 To: Will, Laid <Laid.Will@vermont.gov>; John Ragnone <jragnone@montpelier.vt.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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11:00 works for me. Is it okay if I invite some other agency staff? I don't know if Bryan Lake (NOAA) and Bryan Sogowski (SNFWS) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Laid <Laid.Will@vermont.gov>
 Sent: Friday, November 18, 2022 10:42 AM
 To: John Ragnone <jragnone@montpelier.vt.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Led With M.S.: Fisheries Biologist (fishbio)
 Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
 Fisheries Division
 100 Memorial Ave., Suite 301 | Springfield, VT 05108-0100
 802-777-9027 ext. 446 | ledwith.ms@vermont.gov
www.vermont.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Ragnone <jragnone@montpelier.vt.gov>
 Sent: Friday, November 18, 2022 10:18 AM
 To: Will, Laid <Laid.Will@vermont.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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 Okie dokie. Will send out yet another corrected msg for you, Matt and State WQ folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from NHD on the call and they are West Coast folks

From: Will, Laid <Laid.Will@vermont.gov>
 Sent: Friday, November 18, 2022 10:14 AM
 To: John Ragnone <jragnone@montpelier.vt.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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Fine by me

Led With M.S.: Fisheries Biologist (fishbio)
 Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
 Fisheries Division
 100 Memorial Ave., Suite 301 | Springfield, VT 05108-0100
 802-777-9027 ext. 446 | ledwith.ms@vermont.gov
www.vermont.gov

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in person upon request.

From: John Ragnone <jragnone@montpelier.vt.gov>
 Sent: Friday, November 18, 2022 10:13 AM
 To: Will, Laid <Laid.Will@vermont.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>
 Subject: FW: NH&G - NH&RS BF minimum flow briefing

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Laid,

Would you like to get a short briefing on the proposal on Dec. 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before PERC?

Just let me know.

Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carptone, Matthew <mcarptone@montpelier.vt.gov>
 Sent: Friday, November 18, 2022 10:11 AM
 To: John Ragnone <jragnone@montpelier.vt.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Holness, Erin <Erin.L.Holness@dnr.vt.gov>; Jennifer Griffin <jgriffin@montpelier.vt.gov>; Mike Parker <mikepark@montpelier.vt.gov>; Will, Laid <Laid.Will@vermont.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragnone <jragnone@montpelier.vt.gov>
 Sent: Thursday, November 17, 2022 4:52 PM
 To: Tilly, James <James.W.Tilly@dnr.vt.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Holness, Erin <Erin.L.Holness@dnr.vt.gov>; Jennifer Griffin <jgriffin@montpelier.vt.gov>; Mike Parker <mikepark@montpelier.vt.gov>; Will, Laid <Laid.Will@vermont.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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Thanks James.

From: Tilly, James <James.W.Tilly@dnr.vt.gov>
 Sent: Thursday, November 17, 2022 4:52 PM
 To: John Ragnone <jragnone@montpelier.vt.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Holness, Erin <Erin.L.Holness@dnr.vt.gov>; Jennifer Griffin <jgriffin@montpelier.vt.gov>; Mike Parker <mikepark@montpelier.vt.gov>; Will, Laid <Laid.Will@vermont.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

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Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilly
 Water Quality Certification Supervisor
 Water Division, Natural Resource Section
 New Hampshire Department of Environmental Services
 25 Mason Drive, PO Box 95
 Concord, NH 03305-0095
 603-271-6299
jtilly@des.nh.gov



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 Recycled and/or recycled paper, please use only when necessary. In the use of attachments, and try to participate in electronic purchase by mail.

From: John Ragnone <jragnone@montpelier.vt.gov>
 Sent: Thursday, November 17, 2022 3:59 PM
 To: Will, Laid <Laid.Will@vermont.gov>; Carptone, Matthew <mcarptone@montpelier.vt.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Tilly, James <James.W.Tilly@dnr.vt.gov>; Holness, Erin <Erin.L.Holness@dnr.vt.gov>; Jennifer Griffin <jgriffin@montpelier.vt.gov>; Mike Parker <mikepark@montpelier.vt.gov>
 Subject: RE: NH&G - NH&RS BF minimum flow briefing

From: [Will, Lael](#)
To: [John Ragonese](#); [Carpenter, Matthew](#); [Grader, Melissa](#); [Sprankle, Ken](#); james.w.tilley@des.nh.gov; [Erin Holmes NHDES](#); [Crocker, Jeff](#)
Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Brandon Kibbe](#); [Jeff Blaney](#); [Abe Schneider](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Monday, December 12, 2022 10:07:41 AM
Attachments: [image001.png](#)
[image002.png](#)
[image004.png](#)
[image006.png](#)
[image010.png](#)
[image011.png](#)

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I have two questions below

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Monday, December 12, 2022 10:00 AM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; james.w.tilley@des.nh.gov; Erin Holmes NHDES <erin.l.holmes@des.nh.gov>; Crocker, Jeff <Jeff.Crocker@vermont.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Abe Schneider <abe@natelenergy.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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All,

We will continue to have the call today but the intent to indicate and specifically point out the pending revisions to the application are not complete. I would like to continue with the call primarily to answer any questions or concerns you may have, such as below, and then re-convene a call if necessary once we send the draft revisions out.

Lael, you stated a couple more questions but only about one concern below. Are there others you wish to share in advance?

John

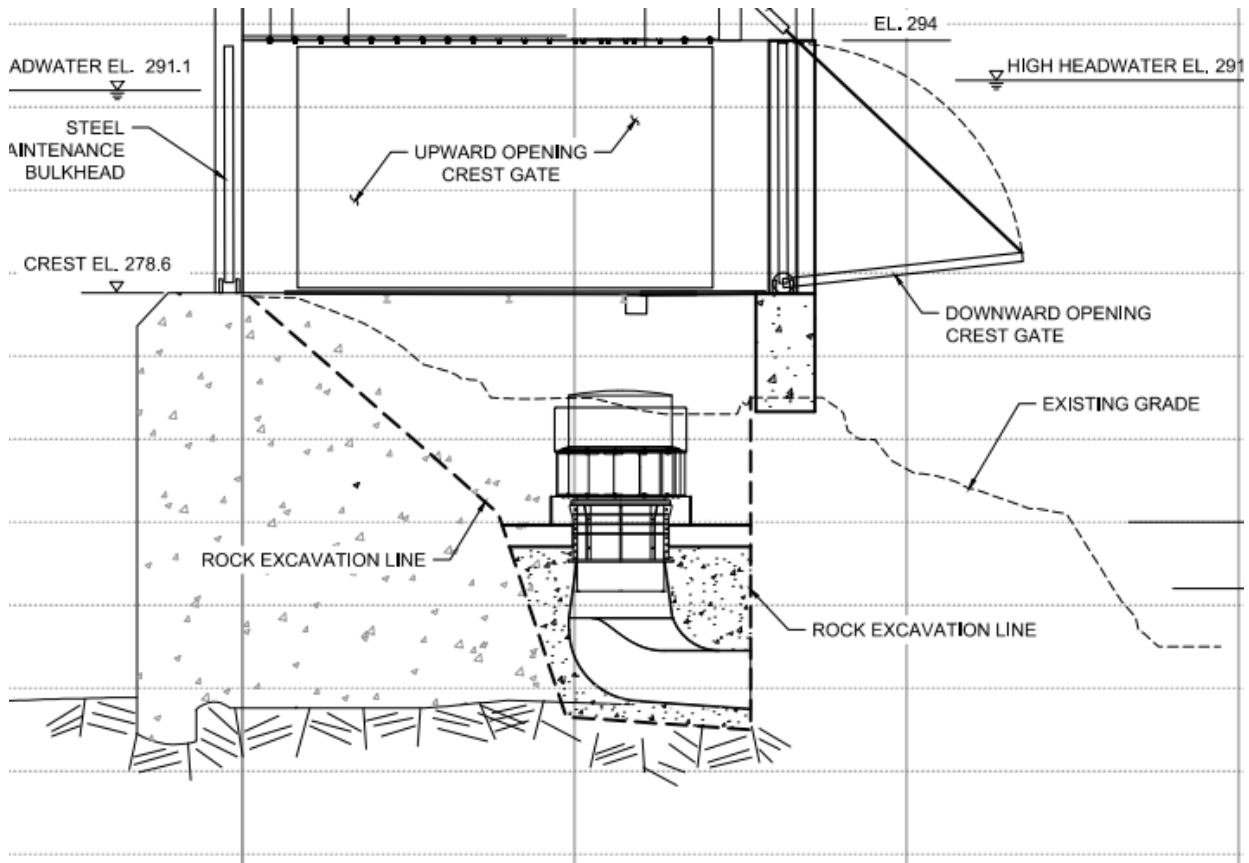
From: Will, Lael <Lael.Will@vermont.gov>
Sent: Monday, December 12, 2022 9:06 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; james.w.tilley@des.nh.gov; Erin Holmes NHDES <erin.l.holmes@des.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Abe Schneider <abe@natelenergy.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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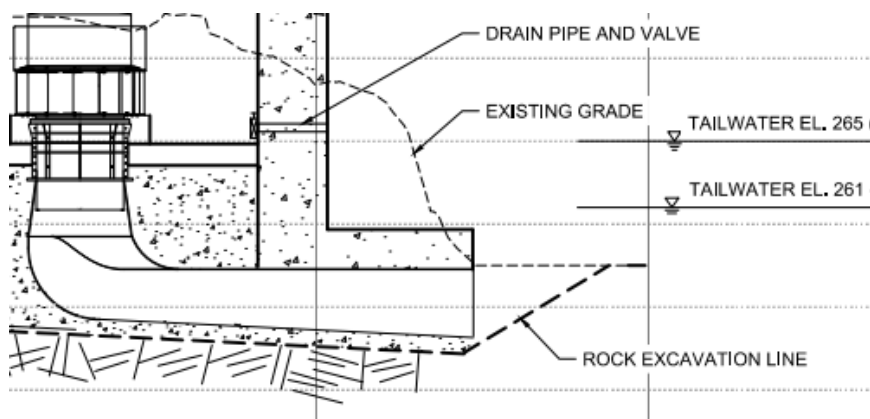
Hi John,

Can cover during call today but just a couple more questions. **1.** Have you guys taken a look to see if there are

any areas that fish can become trapped. I'm thinking somewhere in this area.



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Sent: Monday, December 5, 2022 9:18 AM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; james.w.tilley@des.nh.gov; Erin Holmes NHDES <erin.l.holmes@des.nh.gov>; Crocker, Jeff <Jeff.Crocker@vermont.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Mike Parker

<mparker@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Abe Schneider <abe@natelenergy.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Lael,

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In simple terms and in the meantime,

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Talk soon.

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Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Department of Fish and Wildlife
Fisheries Division
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802-777-0827 cell
Lael.Will@vermont.gov
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Fine Matt, They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.

I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

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To: Will, Lael <Lael.Will@vermont.gov>; John Ragonese <jragonese@greatriverhydro.com>

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I don't have anything scheduled but the earlier the better for me.

Lael Will, M.S. | Fisheries Biologist (she/her)

Vermont Agency of Natural Resources | Dept. of Fish & Wildlife

Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

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Okie dokie. Will send out yet another corrected mtg for you, Matt and State WQ folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Natel on the call and they are West Coast folks

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Friday, November 18, 2022 10:34 AM

To: John Ragonese <jragonese@greatriverhydro.com>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine by me

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Subject: FW: NHF&G - NHDES BF minimum flow briefing

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Lael,
Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before FERC? Just let me know.
Keep the 12th for the larger meeting.
Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:15 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, November 17, 2022 4:53 PM
To: Tilley, James <James.W.Tilley@des.nh.gov>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
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Thanks James.

From: Tilley, James <James.W.Tilley@des.nh.gov>
Sent: Thursday, November 17, 2022 4:52 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
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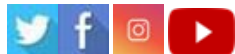
Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, November 17, 2022 3:59 PM
To: Will, Lael <Lael.Will@vermont.gov>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Holmes, Erin <erin.l.holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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OK Lael. Thanks.

Pretty sure the 2nd will not work for Matt Carpenter. If he can do the Dec 1 date, I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

Can you keep the afternoon of the 12th open at this time and I'll try to arrange for an agency consultation call that day to discuss the package of revisions to the BF application, I will hopefully have distributed by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BF application revision package that will be filed with the FERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Thursday, November 17, 2022 3:18 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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December 2, 9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

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<https://nam10.safelinks.protection.outlook.com/?>

[url=http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAilCJQljojV2luMzliLCJBTil6k1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&data=0XEL4cLEGg8VI%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0](http://www.vtfishandwildlife.com/?&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAilCJQljojV2luMzliLCJBTil6k1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&data=0XEL4cLEGg8VI%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0)

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Thursday, November 17, 2022 3:03 PM
To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Brandon Kibbe](#); [Jeff Blaney](#); [Abe Schneider](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Monday, December 12, 2022 9:59:00 AM
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image010.png](#)
[image011.png](#)

All,

We will continue to have the call today but the intent to indicate and specifically point out the pending revisions to the application are not complete. I would like to continue with the call primarily to answer any questions or concerns you may have, such as below, and then re-convene a call if necessary once we send the draft revisions out.

Lael, you stated a couple more questions but only about one concern below. Are there others you wish to share in advance?

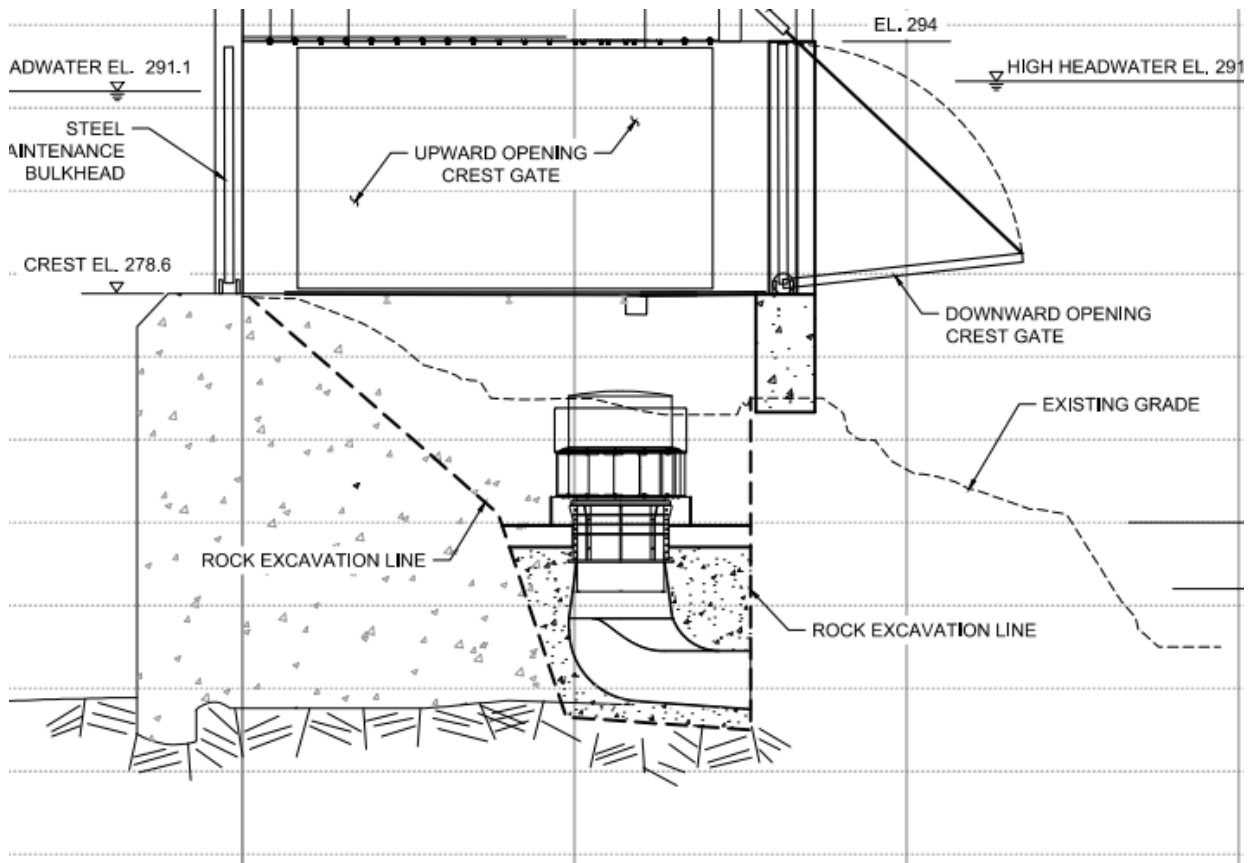
John

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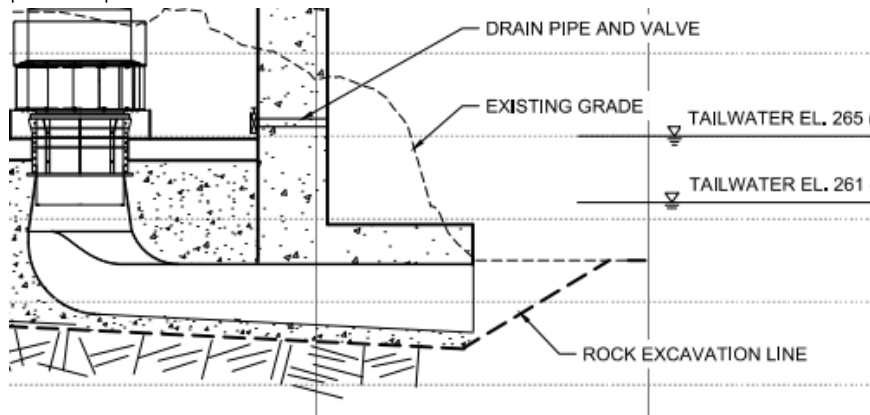
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From: Will, Lael <Lael.Will@vermont.gov>

Sent: Friday, November 18, 2022 10:42 AM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
802-777-0827 cell | lael.will@vermont.gov
www.vtfishandwildlife.com

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Okie dokie. Will send out yet another corrected mtg for you, Matt and State WQ folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Natel on the call and they are West Coast folks

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Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

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Sent: Friday, November 18, 2022 10:15 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

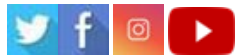
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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Good afternoon, John,
I am available December 12 and can hold it for this briefing.
Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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OK Lael. Thanks.

Pretty sure the 2nd will not work for Matt Carpenter. If he can do the Dec 1 date, I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

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My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BF application revision package

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John

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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December 2,9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

802-777-0827 cell | lael.will@vermont.gov

<https://nam10.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljoimC4wLjAwMDAilCJQljoiv2luMzliLCJBTil6k1haWwiLCjXVCI6Mn0%3D%7C7000%7C%7C%7C&sd=0XEL4cLEg8VI%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0>

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From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 3:04 PM

To: Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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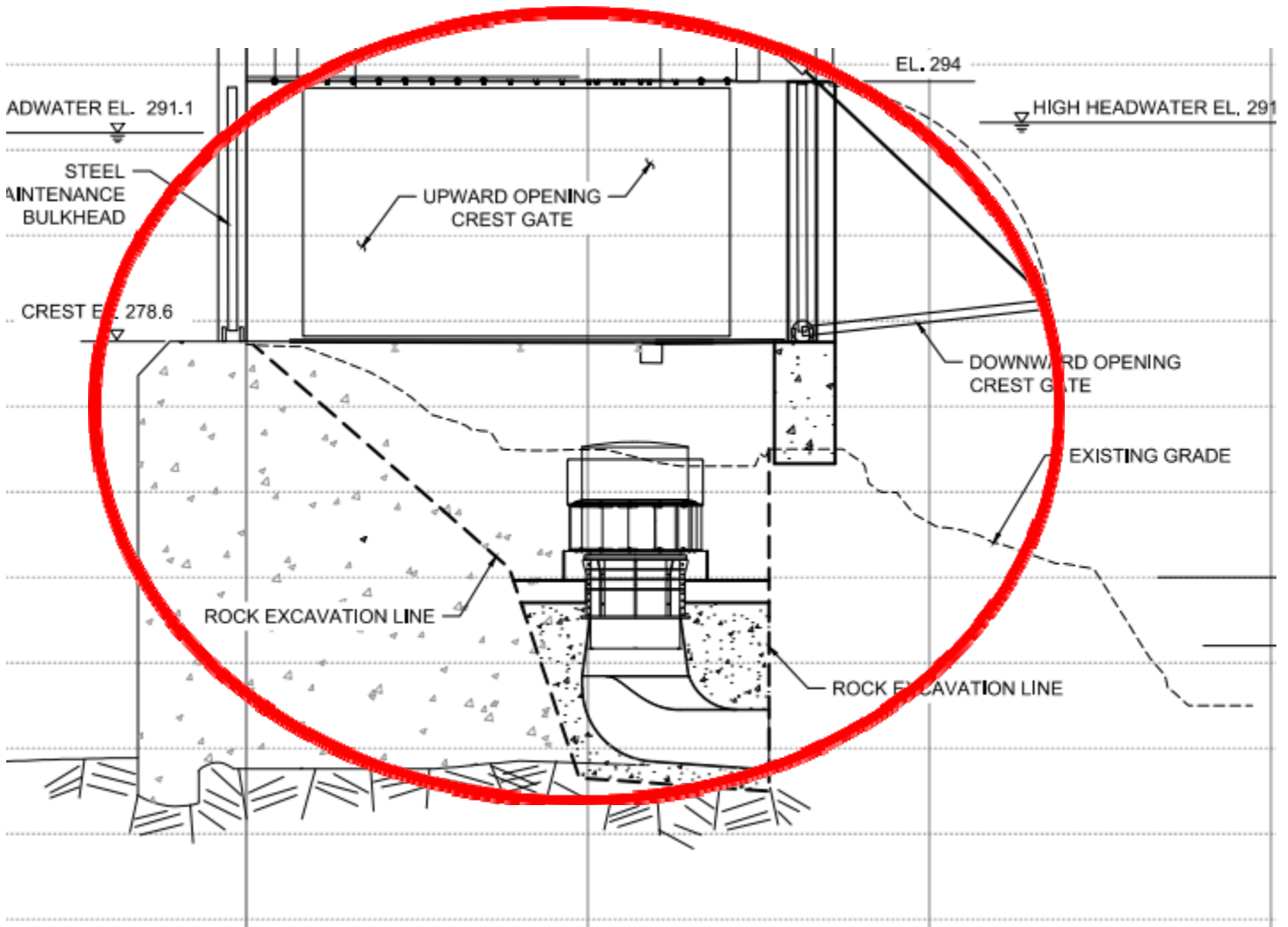
John Ragonese

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Monday, December 12, 2022 9:06 AM
To: John Ragonese; Carpenter, Matthew; Grader, Melissa; Sprankle, Ken; james.w.tilley@des.nh.gov; Erin Holmes NHDES; Crocker, Jeff
Cc: Jennifer Griffin; Chuck Mekus; Mike Parker; Brandon Kibbe; Jeff Blaney; Abe Schneider
Subject: RE: NHF&G - NHDES BF minimum flow briefing

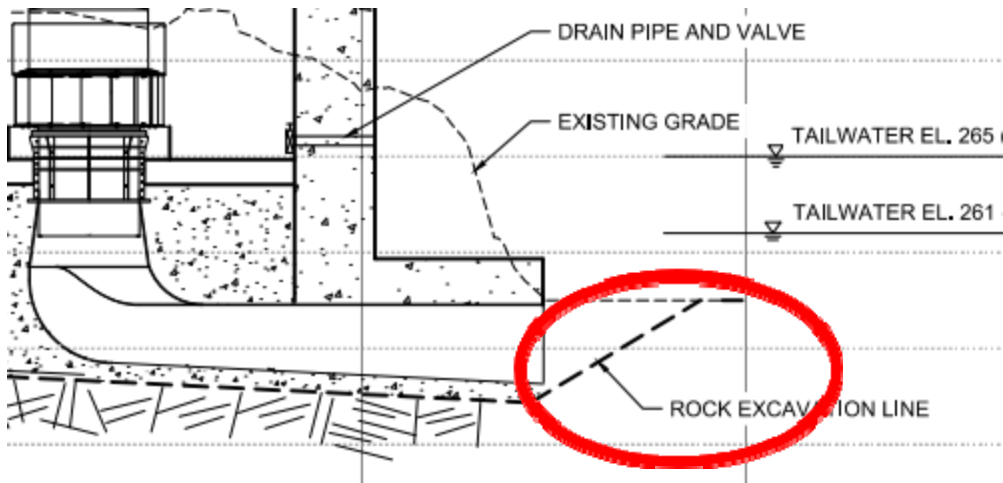
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Hi John,

Can cover during call today but just a couple more questions. **1.** Have you guys taken a look to see if there are any areas that fish can become trapped. I'm thinking somewhere in this area.



2. Looks like a 5ft plunge pool at the outlet, but at 45-degree angle? Should it be more rounded to provide pool shape?



From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Monday, December 5, 2022 9:18 AM

To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Grader, Melissa <melissa_grader@fws.gov>; Sprankle, Ken <ken_sprankle@fws.gov>; james.w.tilley@des.nh.gov; Erin Holmes NHDES <erin.l.holmes@des.nh.gov>; Crocker, Jeff <Jeff.Crocker@vermont.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>; Chuck Mekus <cmekus@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Brandon Kibbe <bkibbe@greatriverhydro.com>; Jeff Blaney <jblaney@greatriverhydro.com>; Abe Schneider <abe@natelenergy.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Here is the pdf of the presentation on the proposed BF minimum flow unit.

John

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Monday, December 5, 2022 8:46 AM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Were you going to send out the plans, that PDF you went through on the call? I may have some more questions once I review a bit more. Thanks

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Wednesday, November 30, 2022 1:31 PM

To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Lael,

All good questions. We will address them all hopefully.

In simple terms and in the meantime,

Why were the plans for an additional turbine not disclosed/discussed before the MOU/SA was signed? Vermont's 20-yr PPA contract opportunity #2 was not announced nor was this proposal applied for nor awarded to GRH until recently.

Does the MOU/SA need to be modified to reflect these changes for dam operations and fish passage? There could be a supplemental agreement developed specifically to address issues with this proposal but it would be simpler to discuss them and propose them in the intended revisions to the BF application – hence the pre-filing consultation. This is not a proposed fish passage mitigation but rather a proposed min flow unit that is being designed to consider potential impacts on fish.

Does GRH have future plans to install more than one turbine in the bypass reach? What is the unit capacity? No, this single unit will be designed to discharge the minimum flow.

Very large eel have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the unit be screened? I have only seen this one picture over and over but yes, it will have a rack with adequate spacing and velocities at the face that are below the USFWS criteria. The unit itself should provide extremely high turbine survival for eels, even ones of the size in the picture.

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions? We are not redesigning the spillway other than the area and aspects associated with the unit. We are designing the tailrace and discharge of the unit and access aspects to the tailrace elevation to facilitate future installation of an eel ramp with an entrance near or adjacent to the discharge of the unit.

Will the additional turbine reduce the amount/frequency of spill over the dam? The unit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.

John

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Wednesday, November 30, 2022 1:02 PM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Hi John,

Thought it might be helpful to provide some initial thoughts/questions VTFWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Talk soon

Why were the plans for an additional turbine not disclosed/discussed before the MOU/SA was signed?
Does the MOU/SA need to be modified to reflect these changes for dam operations and fish passage?
Does GRH have future plans to install more than one turbine in the bypass reach? What is the unit capacity?
Very large eel have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the unit be screened?

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed?
What about fish that enter the unit, how are the discharge conditions?
Will the additional turbine reduce the amount/frequency of spill over the dam?



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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Friday, November 18, 2022 11:28 AM
To: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine Matt, They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.
I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:55 AM
To: Will, Lael <Lael.Will@vermont.gov>; John Ragonese <jragonese@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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11:00 works for me. Is it okay if I invite some other agency staff? I don't know if Bjorn Lake (NOAA) and Bryan Sojkowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

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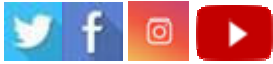
Good afternoon, John,

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Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



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802-777-0827 cell | lael.will@vermont.gov

<https://nam10.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3ab bfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2lu MzliLCJBTiI6Iik1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEGg8VI%2BZrniSfWXf7kDYIF1pObW UMWc2cG8s%3D&reserved=0>

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-----Original Message-----

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, November 17, 2022 3:04 PM
To: Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Thursday, November 17, 2022 3:03 PM
To: John Ragonese
Subject: Declined: NHF&G - NHDES BF minimum flow briefing
When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams Meeting

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What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions? We are not redesigning the spillway other than the area and aspects associated with the unit. We are designing the tailrace and discharge of the unit and access aspects to the tailrace elevation to facilitate future installation of an eel ramp with an entrance near or adjacent to the discharge of the unit.

Will the additional turbine reduce the amount/frequency of spill over the dam? The unit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.

John

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Wednesday, November 30, 2022 1:02 PM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Hi John,

Thought it might be helpful to provide some initial thoughts/questions VTFWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Talk soon

Why were the plans for an additional turbine not disclosed/discussed before the MOU/SA was signed?

Does the MOU/SA need to be modified to reflect these changes for dam operations and fish passage?

Does GRH have future plans to install more than one turbine in the bypass reach? What is the unit capacity?

Very large eel have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the unit be screened?

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions?

Will the additional turbine reduce the amount/frequency of spill over the dam?



Lael Will, M.S. | Fisheries Biologist (she/her)
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Fisheries Division
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802-777-0827 cell
Lael.Will@vermont.gov
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Sent: Friday, November 18, 2022 11:28 AM

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine Matt, They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.

I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

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Sent: Friday, November 18, 2022 10:55 AM

To: Will, Lael <Lael.Will@vermont.gov>; John Ragonese <jragonese@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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11:00 works for me. Is it okay if I invite some other agency staff? I don't know if Bjorn Lake (NOAA) and Bryan Sojkowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

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Sent: Friday, November 18, 2022 10:42 AM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lael Will, M.S. | Fisheries Biologist (she/her)

Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division

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Okie dokie. Will send out yet another corrected mtg for you, Matt and State WQ folks for the 2nd. What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Natel on the call and they are West Coast folks

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Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine by me

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Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: FW: NHF&G - NHDES BF minimum flow briefing

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Lael,

Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before FERC?

Just let me know.

Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:15 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, November 17, 2022 4:53 PM
To: Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

From: Tilley, James <James.W.Tilley@des.nh.gov>
Sent: Thursday, November 17, 2022 4:52 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Good afternoon, John,
I am available December 12 and can hold it for this briefing.

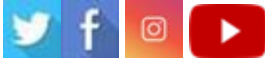
Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau

New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699

james.tilley@des.nh.gov



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From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 3:59 PM

To: Will, Lael <Lael.Will@vermont.gov>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Holmes, Erin <erin.l.holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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OK Lael. Thanks.

Pretty sure the 2nd will not work for Matt Carpenter. If he can do the Dec 1 date, I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

Can you keep the afternoon of the 12th open at this time and I'll try to arrange for an agency consultation call that day to discuss the package of revisions to the BF application, I will hopefully have distributed by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BF application revision package that will be filed with the FERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:18 PM

To: John Ragonese <jragonese@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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December 2, 9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

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-----Original Message-----

From: John Ragonese <jragonese@greatriverhydro.com>

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [John Ragonese](#)
To: [Will, Lael](#); [Carpenter, Matthew](#); [Grader, Melissa](#); [Ken Sprankle](#); james.w.tilley@des.nh.gov; [Erin Holmes NHDES](#); [Crocker, Jeff](#)
Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Brandon Kibbe](#); [Jeff Blaney](#); [Abe Schneider](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Monday, December 5, 2022 9:17:00 AM
Attachments: [image004.png](#)
[image005.png](#)
[BF Min flow Agency deck updated drawings.pdf](#)

Here is the pdf of the presentation on the proposed BF minimum flow unit.

John

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Monday, December 5, 2022 8:46 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Were you going to send out the plans, that PDF you went through on the call? I may have some more questions once I review a bit more. Thanks

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Wednesday, November 30, 2022 1:31 PM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Lael,

All good questions. We will address them all hopefully.

In simple terms and in the meantime,

Why were the plans for an additional turbine not disclosed/discussed before the MOU/SA was signed? Vermont's 20-yr PPA contract opportunity #2 was not announced nor was this proposal applied for nor awarded to GRH until recently.

Does the MOU/SA need to be modified to reflect these changes for dam operations and fish passage? There could be a supplemental agreement developed specifically to address issues with this proposal but it would be simpler to discuss them and propose them in the intended revisions to the BF application – hence the pre-filing consultation. This is not a proposed fish passage mitigation but rather a proposed min flow unit that is being designed to consider potential impacts on fish.

Does GRH have future plans to install more than one turbine in the bypass reach?

What is the unit capacity? No, this single unit will be designed to discharge the

minimum flow.

Very large eel have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the unit be screened? I have only seen this one picture over and over but yes, it will have a rack with adequate spacing and velocities at the face that are below the USFWS criteria. The unit itself should provide extremely high turbine survival for eels, even ones of the size in the picture.

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions? We are not redesigning the spillway other than the area and aspects associated with the unit. We are designing the tailrace and discharge of the unit and access aspects to the tailrace elevation to facilitate future installation of an eel ramp with an entrance near or adjacent to the discharge of the unit.

Will the additional turbine reduce the amount/frequency of spill over the dam? The unit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Hi John,

Thought it might be helpful to provide some initial thoughts/questions VTFWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Talk soon

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Sent: Thursday, November 17, 2022 4:53 PM
To: Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

From: Tilley, James <James.W.Tilley@des.nh.gov>
Sent: Thursday, November 17, 2022 4:52 PM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Good afternoon, John,
I am available December 12 and can hold it for this briefing.

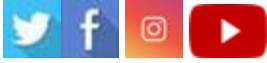
Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau

New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699

james.tilley@des.nh.gov



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From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 3:59 PM

To: Will, Lael <Lael.Will@vermont.gov>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Holmes, Erin <erin.l.holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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OK Lael. Thanks.

Pretty sure the 2nd will not work for Matt Carpenter. If he can do the Dec 1 date, I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

Can you keep the afternoon of the 12th open at this time and I'll try to arrange for an agency consultation call that day to discuss the package of revisions to the BF application, I will hopefully have distributed by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BF application revision package that will be filed with the FERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:18 PM

To: John Ragonese <jragonese@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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December 2, 9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

802-777-0827 cell | lael.will@vermont.gov

<https://nam10.safelinks.protection.outlook.com/?>

url=<http://www.vtfishandwildlife.com&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQljoiv2luMzliLCJBTiI6I1haWwiLCJXVCI6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEGg8Vl%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0>

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-----Original Message-----

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 3:04 PM

To: Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [Will, Lael](#)
To: [John Ragonese](#); [Carpenter, Matthew](#)
Cc: [Jennifer Griffin](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Monday, December 5, 2022 8:46:26 AM
Attachments: [image004.png](#)
[image005.png](#)

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Were you going to send out the plans, that PDF you went through on the call? I may have some more questions once I review a bit more. Thanks

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Wednesday, November 30, 2022 1:31 PM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Lael,

All good questions. We will address them all hopefully.

In simple terms and in the meantime,

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Does the MOU/SA need to be modified to reflect these changes for dam operations and fish passage? There could be a supplemental agreement developed specifically to address issues with this proposal but it would be simpler to discuss them and propose them in the intended revisions to the BF application – hence the pre-filing consultation. This is not a proposed fish passage mitigation but rather a proposed min flow unit that is being designed to consider potential impacts on fish.

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Will the additional turbine reduce the amount/frequency of spill over the dam? The unit is strictly designed to pass the proposed minimum flow which in itself is a constant discharge over the dam. There are spill capacity enhancements we will describe further in the call.

Talk soon.

John

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Wednesday, November 30, 2022 1:02 PM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Why were the plans for an additional turbine not disclosed/discussed before the MOU/SA was signed?

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plunge pool if needed? What about fish that enter the unit, how are the discharge conditions?

Will the additional turbine reduce the amount/frequency of spill over the dam?



Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Department of Fish and Wildlife
Fisheries Division
100 Mineral St | Springfield, VT 05156-3168
802-777-0827 cell
Lael.Will@vermont.gov
www.vtfishandwildlife.com

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Friday, November 18, 2022 11:28 AM
To: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine Matt, They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.

I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:55 AM
To: Will, Lael <Lael.Will@vermont.gov>; John Ragonese <jragonese@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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11:00 works for me. Is it okay if I invite some other agency staff? I don't know if Bjorn Lake (NOAA) and Bryan Sojkowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Friday, November 18, 2022 10:42 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
802-777-0827 cell | lael.will@vermont.gov
www.vtfishandwildlife.com

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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Friday, November 18, 2022 10:38 AM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Okie dokie. Will send out yet another corrected mtg for you, Matt and State WQ folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Natel on the call and they are West Coast folks

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Friday, November 18, 2022 10:34 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine by me

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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Friday, November 18, 2022 10:33 AM
To: Will, Lael <Lael.Will@vermont.gov>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: FW: NHF&G - NHDES BF minimum flow briefing

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Lael,

Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before FERC?

Just let me know.

Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:15 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 4:53 PM

To: Tilley, James <James.W.Tilley@des.nh.gov>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

From: Tilley, James <James.W.Tilley@des.nh.gov>

Sent: Thursday, November 17, 2022 4:52 PM

To: John Ragonese <jragonese@greatriverhydro.com>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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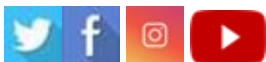
Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
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OK Lael. Thanks.

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John

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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December 2,9, 12

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erhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWlloiMC4wLjAwMDAiLCJQljoiiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEg8VI%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [John Ragonese](#)
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Cc: [Jennifer Griffin](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Wednesday, November 30, 2022 1:31:00 PM
Attachments: [image004.png](#)
[image005.png](#)

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Sent: Friday, November 18, 2022 10:42 AM

To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lael Will, M.S. | Fisheries Biologist (she/her)

Vermont Agency of Natural Resources | Dept. of Fish & Wildlife

Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

802-777-0827 cell | lael.will@vermont.gov

www.vtfishandwildlife.com

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

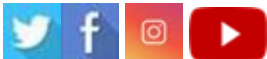
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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Good afternoon, John,
I am available December 12 and can hold it for this briefing.
Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



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John

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December 2,9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

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<https://nam10.safelinks.protection.outlook.com/?>

[url=http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljoiv2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEGg8VI%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0](http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljoiv2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEGg8VI%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0)

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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [Will, Lael](#)
To: [John Ragonese](#); [Carpenter, Matthew](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Wednesday, November 30, 2022 1:02:36 PM
Attachments: [image009.png](#)
[image010.png](#)

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Hi John,

Thought it might be helpful to provide some initial thoughts/questions VTFWD has prior to the meeting on Friday. I'm sure you are already prepared for these but thought I'd pass along anyway. Talk soon

Why were the plans for an additional turbine not disclosed/discussed before the MOU/SA was signed?

Does the MOU/SA need to be modified to reflect these changes for dam operations and fish passage?

Does GRH have future plans to install more than one turbine in the bypass reach? What is the unit capacity?

Very large eel have been observed in the BF project area (see attached photo). How will larger eels be protected? Will the unit be screened?

What about fish that spill? Are there plans to provide protective measures, such as a plunge pool if needed? What about fish that enter the unit, how are the discharge conditions?

Will the additional turbine reduce the amount/frequency of spill over the dam?



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From: John Ragonese <jragonese@greatriverhydro.com>
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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine Matt, They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.

I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Sent: Friday, November 18, 2022 10:55 AM

To: Will, Lael <Lael.Will@vermont.gov>; John Ragonese <jragonese@greatriverhydro.com>

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11:00 works for me. Is it okay if I invite some other agency staff? I don't know if Bjorn Lake (NOAA) and Bryan Sojkowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Lael <Lael.Will@vermont.gov>

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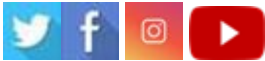
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James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
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December 2, 9, 12

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Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [John Ragonese](#)
To: [Holmes, Erin](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Monday, November 21, 2022 12:35:00 PM

Sounds great Erin.

Looking forward to meeting you and introducing this project to you.

John

-----Original Appointment-----

From: Holmes, Erin <Erin.L.Holmes@des.nh.gov>

Sent: Monday, November 21, 2022 12:32 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Friday, December 2, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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I have another meeting at this time. I will attend the December 12 meeting.

Thank you.

Erin Holmes, PE

WMB Administrator

From: [John Ragonese](#)
To: [Carpenter, Matthew](#); james.w.tilley@des.nh.gov; [Erin Holmes NHDES](#); [Will, Lael](#); [Crocker, Jeff](#)
Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Abe Schneider](#); [Grader, Melissa](#); [Ken Sprankle](#)
Subject: NHF&G - NHDES BF minimum flow briefing
Start: Friday, December 2, 2022 11:00:00 AM
End: Friday, December 2, 2022 12:30:00 PM
Location: Microsoft Teams Meeting

All,

THIS IS THE FINAL DATE and TIME for the TEAMS meeting to brief NHFG and VTDFW staff, Matt Carpenter and Lael Will respectively. If others from NHDES and VTDEC or anyone else interested can join in this meeting. It is largely a repeat of the prior consultation meeting on September 9, 2022. PLEASE RSVP

MARK YOU CALENDARS - There will be a broader agency consultation TEAMS meeting scheduled for December 12th, which will follow and focus on the draft revisions (to be distributed to agencies) of to the current Bellows Falls FERC application before the FERC. The revisions will describe the proposed minimum flow unit, drawings, with the changes reflected in the various exhibits. Agencies will be given an opportunity to review and provide any comments prior to filing the final revisions are submitted to FERC.

John

Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting <https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTBiOWMyNTUtYWZhOS00MmVmLTlhZDgtZTQwMGZlZDhjZDhi%40thread.v2/0?context=%7b%22Tid%22%3a%2294e1d720-dfed-4b6a-9cd8-a3abbfc55c12%22%2c%22Oid%22%3a%22c12edc80-7c9d-4ec9-890a-45a3702d0bb2%22%7d>

Meeting ID: 233 633 825 855
Passcode: rTUVCa

Download Teams <<https://www.microsoft.com/en-us/microsoft-teams/download-app>> | Join on the web <<https://www.microsoft.com/microsoft-teams/join-a-meeting>>

Or call in (audio only)

+1 339-666-3085,,66514841# <tel:+13396663085,,66514841#> United States, Lynn

Phone Conference ID: 665 148 41#

Find a local number <<https://dialin.teams.microsoft.com/093e3c50-7b0d-433c-8e35-721aa4022f8e?id=66514841>> | Reset PIN <<https://dialin.teams.microsoft.com/usp/pstnconferencing>>

Learn More <<https://aka.ms/JoinTeamsMeeting>> | Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=c12edc80-7c9d-4ec9-890a-45a3702d0bb2&tenantId=94e1d720-dfed-4b6a-9cd8-a3abbfc55c12&threadId=19_meeting_ZTBiOWMyNTUtYWZhOS00MmVmLTlhZDgtZTQwMGZlZDhjZDhi@thread.v2&messageId=0&language=en-US>

From: [John Ragonese](#)
To: [Carpenter, Matthew](#); [Will, Lael](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Friday, November 18, 2022 11:28:00 AM
Attachments: [image003.png](#)
[image004.png](#)

Fine Matt, They may have attended the earlier scheduled meeting, but nonetheless, feel free to invite.

I'll send out a Teams call for Dec 2nd at 11 and you can forward to them.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:55 AM
To: Will, Lael <Lael.Will@vermont.gov>; John Ragonese <jragonese@greatriverhydro.com>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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11:00 works for me. Is it okay if I invite some other agency staff? I don't know if Bjorn Lake (NOAA) and Bryan Sojkowski (USFWS) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Friday, November 18, 2022 10:42 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
802-777-0827 cell | lael.will@vermont.gov
www.vtfishandwildlife.com

The Agency of Natural Resources supports telework, and there are times when I may be working from another office location. I am available to connect by phone and email. I am also available to connect in-person upon request.

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Friday, November 18, 2022 10:38 AM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Okie dokie. Will send out yet another corrected mtg for you, Matt and State WQ folks for the 2nd. What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Natel on the call and they are West Coast folks

From: Will, Lael <Lael.Will@vermont.gov>
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To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Fine by me

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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Friday, November 18, 2022 10:33 AM
To: Will, Lael <Lael.Will@vermont.gov>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Subject: FW: NHF&G - NHDES BF minimum flow briefing
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Lael,

Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before FERC?

Just let me know.

Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:15 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 4:53 PM

To: Tilley, James <James.W.Tilley@des.nh.gov>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

From: Tilley, James <James.W.Tilley@des.nh.gov>

Sent: Thursday, November 17, 2022 4:52 PM

To: John Ragonese <jragonese@greatriverhydro.com>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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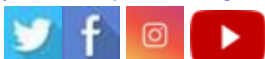
Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



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From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 3:59 PM

To: Will, Lael <Lael.Will@vermont.gov>

Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Tilley, James <James.W.Tilley@des.nh.gov>; Holmes, Erin <erin.l.holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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OK Lael. Thanks.

Pretty sure the 2nd will not work for Matt Carpenter. If he can do the Dec 1 date, I may go ahead with it and simply not be able to brief you on this proposal before I send out a package for agency review and comment.

Can you keep the afternoon of the 12th open at this time and I'll try to arrange for an agency consultation call that day to discuss the package of revisions to the BF application, I will hopefully have distributed by then.

My intent is to send these out to agencies and provide at least 30 days to review and comment; hopefully arrange a consultation meeting to present them as well; then address the comments in a final BF application revision package that will be filed with the FERC in January. Perhaps the 12th would work for that consultation meeting.

John

-----Original Message-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:18 PM

To: John Ragonese <jragonese@greatriverhydro.com>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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December 2,9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

802-777-0827 cell | lael.will@vermont.gov

<https://nam10.safelinks.protection.outlook.com/?>

[url=http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAilCjQljojV2luMzliLCJBTil6Ik1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEGg8Vl%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0](http%3A%2F%2Fwww.vtfishandwildlife.com%2F&data=05%7C01%7Cjragonese%40greatriverhydro.com%7C483d176e84034d0c334e08dac8d8cad5%7C94e1d720dfed4b6a9cd8a3abbfc55c12%7C0%7C0%7C638043130691143586%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAilCjQljojV2luMzliLCJBTil6Ik1haWwiLCJXVCi6Mn0%3D%7C7000%7C%7C%7C&sdata=0XEL4cLEGg8Vl%2BZrniSfWXf7kDYIF1pObWUMWc2cG8s%3D&reserved=0)

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-----Original Message-----

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Thursday, November 17, 2022 3:04 PM

To: Will, Lael <Lael.Will@vermont.gov>

Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [Lael Will](mailto:lael.will@vermont.gov)
To: [John Regan](mailto:john.regan@vermont.gov)
Subject: RE: NH&G - NH&G's BF minimum flow briefing
Date: Friday, November 18, 2022 11:01 AM
Attachments: [Screenshot](#)

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It still works for me. Is it okay if I include some other agency staff? I don't know if Storm Lake (NOAA) and Brian Schriener (DNR) are available, but they may have an interest from a fish passage engineering perspective.

From: Will, Lael <lael.will@vermont.gov>
Sent: Friday, November 18, 2022 10:42 AM
To: John Regan <jregan@vermont.gov>; Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>
Subject: RE: NH&G - NH&G's BF minimum flow briefing

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I don't have anything scheduled but the earlier the better for me.

Lael WILL, M.S.: Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05106-3108
802-777-0827 ext 1 | lael.will@vermont.gov
www.vermont.gov

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From: John Regan <jregan@vermont.gov>
Sent: Friday, November 18, 2022 10:38 AM

To: Will, Lael <lael.will@vermont.gov>; Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>

Cc: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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Okie dokie. Will send out yet another corrected mgf for you, Matt and State WG folks for the 2nd.

What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from NREL on the call and they are West Coast folks.

From: Will, Lael <lael.will@vermont.gov>
Sent: Friday, November 18, 2022 10:34 AM

To: John Regan <jregan@vermont.gov>

Cc: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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Fire by me

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Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05106-3108
802-777-0827 ext 1 | lael.will@vermont.gov
www.vermont.gov

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From: John Regan <jregan@vermont.gov>
Sent: Friday, November 18, 2022 10:33 AM

To: Will, Lael <lael.will@vermont.gov>

Cc: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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Lael,

Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before FERC and before the hearing?

Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WG folks if they can make it.

From: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>
Sent: Friday, November 18, 2022 10:33 AM

To: John Regan <jregan@vermont.gov>; Tiley, James <jatiley@wildlife.vermont.gov>

Cc: Crocker, Jeff <jcrocker@vermont.gov>; Holmes, Erin <erinholmes@wildlife.vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mikeparker@vermont.gov>; Will, Lael <lael.will@vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Regan <jregan@vermont.gov>
Sent: Thursday, November 17, 2022 4:53 PM

To: Tiley, James <jatiley@wildlife.vermont.gov>

Cc: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Holmes, Erin <erinholmes@wildlife.vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mikeparker@vermont.gov>; Will, Lael <lael.will@vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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Thanks James.

From: Tiley, James <jatiley@wildlife.vermont.gov>
Sent: Thursday, November 17, 2022 4:52 PM

To: John Regan <jregan@vermont.gov>

Cc: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Holmes, Erin <erinholmes@wildlife.vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mikeparker@vermont.gov>; Will, Lael <lael.will@vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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Good afternoon, John,

I am available December 12 and can hold it for this briefing.

Regards,

James Tiley
Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
25 Mason Drive, PO Box 66
Concord, NH 03305-0065
(603) 271-0699
www.des.nh.gov



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From: John Regan <jregan@vermont.gov>
Sent: Thursday, November 17, 2022 3:58 PM

To: Will, Lael <lael.will@vermont.gov>

Cc: Carpenter, Matthew <mcarpenter@wildlife.vermont.gov>; Crocker, Jeff <jcrocker@vermont.gov>; Tiley, James <jatiley@wildlife.vermont.gov>; Holmes, Erin <erinholmes@wildlife.vermont.gov>; Jennifer Griffin <jgriffin@vermont.gov>; Mike Parker <mikeparker@vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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OK Lael. Thanks.

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John

-----Original Message-----

From: Will, Lael <lael.will@vermont.gov>
Sent: Thursday, November 17, 2022 3:18 PM

To: John Regan <jregan@vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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December 2, 9, 12

Lael WILL, M.S.: Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05106-3108
802-777-0827 ext 1 | lael.will@vermont.gov
www.vermont.gov

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-----Original Message-----

From: John Regan <jregan@vermont.gov>
Sent: Thursday, November 17, 2022 3:08 PM

To: Will, Lael <lael.will@vermont.gov>

Subject: RE: NH&G - NH&G's BF minimum flow briefing

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Damn...

Sorry

What is your availability

-----Original Appointment-----

From: Will, Lael <lael.will@vermont.gov>
Sent: Thursday, November 17, 2022 3:03 PM

To: John Regan

Subject: Dec 12, 9, 12 - NH&G - NH&G's BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM - 12:30 PM (UTC-05:00 Eastern Time (US & Canada))
Where: Microsoft Teams Meeting

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From: [Will, Lael](#)
To: [John Ragonese](#); [Carpenter, Matthew](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Friday, November 18, 2022 10:41:58 AM
Attachments: [image003.png](#)
[image004.png](#)

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Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
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Subject: FW: NHF&G - NHDES BF minimum flow briefing

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Lael,

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Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
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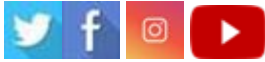
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Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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To: [Will, Lael](#); [Carpenter, Matthew](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Friday, November 18, 2022 10:38:00 AM
Attachments: [image003.png](#)
[image004.png](#)

Okie dokie. Will send out yet another corrected mtg for you, Matt and State WQ folks for the 2nd. What time works for both of you? I am pretty wide open but would like it to be no earlier than 11 if possible, then I may try to get the CTO from Natel on the call and they are West Coast folks

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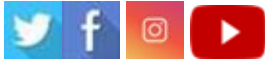
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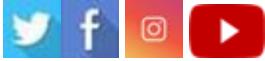
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To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [John Ragonese](#)
To: [Will, Lael](#)
Cc: [Carpenter, Matthew](#)
Subject: FW: NHF&G - NHDES BF minimum flow briefing
Date: Friday, November 18, 2022 10:33:00 AM
Attachments: [image003.png](#)
[image004.png](#)

Lael,

Would you like to get a short briefing on the proposal on Dec 2 with Matt in advance of a more in depth (possibly) discussion on the 12th that would be associated with the revisions to the current BF application before FERC?

Just let me know.

Keep the 12th for the larger meeting.

Dec 2 would be for just you and Matt and the State WQ folks if they can make it.

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Friday, November 18, 2022 10:15 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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I am available on the 12th. I could also make December 2nd work for a briefing on the proposal if that is the only time that works for everyone.

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, November 17, 2022 4:53 PM
To: Tilley, James <James.W.Tilley@des.nh.gov>
Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin <jgriffin@greatriverhydro.com>; Mike Parker <mparker@greatriverhydro.com>; Will, Lael <Lael.Will@vermont.gov>
Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Thanks James.

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Cc: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>; Holmes, Erin <Erin.L.Holmes@des.nh.gov>; Jennifer Griffin

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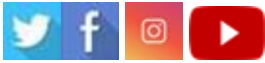
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Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699

james.tilley@des.nh.gov



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December 2, 9, 12

Lael Will, M.S. | Fisheries Biologist (she/her) Vermont Agency of Natural Resources | Dept. of Fish & Wildlife Fisheries Division

100 Mineral Street, Suite 302 | Springfield, VT 05156-3168

802-777-0827 cell | lael.will@vermont.gov

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Cc: [Carpenter, Matthew](#); [Crocker, Jeff](#); [Holmes, Erin](#); [Jennifer Griffin](#); [Mike Parker](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Friday, November 18, 2022 7:31:09 AM
Attachments: [image003.png](#)
[image004.png](#)

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I will hold the 12th

Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Dept. of Fish & Wildlife
Fisheries Division
100 Mineral Street, Suite 302 | Springfield, VT 05156-3168
802-777-0827 cell | lael.will@vermont.gov
www.vtfishandwildlife.com

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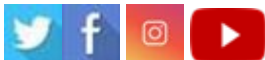
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Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699
james.tilley@des.nh.gov



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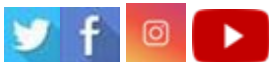
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Subject: RE: NHF&G - NHDES BF minimum flow briefing

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Damn....

Sorry.

What is your availability

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Thursday, November 17, 2022 3:03 PM

To: John Ragonese

Subject: Declined: NHF&G - NHDES BF minimum flow briefing

When: Thursday, December 1, 2022 11:00 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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From: [John Ragonese](#)
To: [Carpenter, Matthew](#); james.w.tilley@des.nh.gov; [Erin Holmes NHDES](#); [Will, Lael](#); [Crocker, Jeff](#)
Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Abe Schneider](#)
Subject: NHF&G - NHDES BF minimum flow briefing

All, My apologies for having to move this off Tuesday Nov. 29. I had a hospital procedure that got re-scheduled to 11/29 all day and it wasn't showing on my work calendar.

Matt indicated he was available Thursday 12/1 before 2pm so looking to have this 12/1 in the AM. It can be anytime that morning works for you.

So sorry about that. I knew it wasn't going to be that easy to schedule this.

Please RSVP

Thanks

John

Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting <https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTBIOwMyNTUtYWZhOS00MmVmLTlhZDgtZTQwMGZlZDhjZDhi%40thread.v2/0?context=%7b%22Tid%22%3a%2294e1d720-dfed-4b6a-9cd8-a3abbc55c12%22%2c%22Oid%22%3a%22c12edc80-7c9d-4ec9-890a-45a3702d0bb2%22%7d>

Meeting ID: 233 633 825 855

Passcode: rTUVCa

Download Teams <<https://www.microsoft.com/en-us/microsoft-teams/download-app>> | Join on the web <<https://www.microsoft.com/microsoft-teams/join-a-meeting>>

Or call in (audio only)

+1 339-666-3085,,66514841# <tel:+13396663085,,66514841#> United States, Lynn

Phone Conference ID: 665 148 41#

Find a local number <<https://dialin.teams.microsoft.com/093e3c50-7b0d-433c-8e35-721aa4022f8e?id=66514841>> | Reset PIN <<https://dialin.teams.microsoft.com/usp/pstnconferencing>>

Learn More <<https://aka.ms/JoinTeamsMeeting>> | Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=c12edc80-7c9d-4ec9-890a-45a3702d0bb2&tenantId=94e1d720-dfed-4b6a-9cd8-a3abbc55c12&threadId=19_meeting_ZTBIOwMyNTUtYWZhOS00MmVmLTlhZDgtZTQwMGZlZDhjZDhi@thread.v2&messageId=0&language=en-US>

From: [John Ragonese](#)
To: [Will, Lael](#); [Crocker, Jeff](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Wednesday, November 16, 2022 3:03:00 PM

Thanks Lael, Jeff. Glad you can make it.

-----Original Appointment-----

From: Will, Lael <Lael.Will@vermont.gov>

Sent: Wednesday, November 16, 2022 2:49 PM

To: John Ragonese

Subject: Accepted: NHF&G - NHDES BF minimum flow briefing

When: Tuesday, November 29, 2022 1:00 PM-2:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

From: [Carpenter, Matthew](#)
To: [John Ragonese](#); [Tilley, James](#); [Holmes, Erin](#); [Will, Lael](#); [Crocker, Jeff](#)
Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#)
Subject: RE: NHF&G - NHDES BF minimum flow briefing
Date: Tuesday, November 15, 2022 2:39:24 PM

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Yes, that still works for me.

-----Original Appointment-----

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Tuesday, November 15, 2022 12:40 PM
To: Carpenter, Matthew; Tilley, James; Holmes, Erin; Will, Lael; Crocker, Jeff
Cc: Jennifer Griffin; Chuck Mekus; Mike Parker
Subject: NHF&G - NHDES BF minimum flow briefing
When: Tuesday, November 29, 2022 1:00 PM-2:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams Meeting

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Matt, hoping the 29th at 1PM still works. James Tilley and Erin Holmes from NHDES will join the mtg. I am hoping Lael can make this meeting to prevent having to replicate it for her.

John

Microsoft Teams meeting

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Meeting ID: 233 633 825 855

Passcode: rTUVCa

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Phone Conference ID: 665 148 41#

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From: [John Ragonese](#)
To: [Carpenter, Matthew](#); james.w.tilley@des.nh.gov; [Erin Holmes NHDES](#); [Will, Lael](#); [Crocker, Jeff](#)
Cc: [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#)
Subject: NHF&G - NHDES BF minimum flow briefing

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From: [John Ragonese](#)
To: [Tilley, James](#)
Cc: [Holmes, Erin](#); [Matt Carpenter \(Matthew.Carpenter@wildlife.nh.gov\)](#)
Subject: RE: Proposed BF minimum flow unit briefing
Date: Tuesday, November 15, 2022 12:00:00 PM
Attachments: [image003.png](#)
[image004.png](#)

Sounds great. Technically it won't be a follow-up but a similar initial outreach – for Matt and Erin at least. I will probably be the presenter in large part. **Will confirm Tues. Nov 29 afternoon in a TEAMS invite.**

From: Tilley, James <James.W.Tilley@des.nh.gov>
Sent: Tuesday, November 15, 2022 9:46 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Cc: Holmes, Erin <Erin.L.Holmes@des.nh.gov>
Subject: RE: Proposed BF minimum flow unit briefing

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good morning, John,

I did attend the September 9, 2022 pre-filing consultation meeting during which GRH presented information about the Natel turbine that GRH plans to use for minimum flows for Bellows Falls Hydro.

I am interested in attending a follow-up meeting that includes NHFGD staff.

My supervisor, Erin Holmes, Administrator of the NHDES Watershed Management Bureau, would also like to attend such a meeting. I am copying Erin on this email so that you have her email address.

Tuesday, November 29 after noon works better for us.

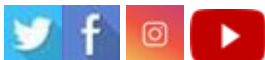
Thank you for the invitation.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095
(603) 271-0699

james.tilley@des.nh.gov



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From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Monday, November 14, 2022 10:37 AM

To: Tilley, James <James.W.Tilley@des.nh.gov>

Subject: FW: Proposed BF minimum flow unit briefing

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James,

I wanted to see if you would like to sit in on this virtual presentation I am planning to have with NHF&G's Matt Carpenter re: the proposed minimum flow unit at Bellows Falls Hydro Project dam. We briefed many of you a few months ago but Matt could not attend. I can't recall if you were also able to but moreso wanted to give you an opportunity to hear any concerns Matt raises in the meeting.

As indicated below, we will send out a draft of any of the License application revision materials to resource agencies for review and comment prior to any filing of the same with the FERC or eventually the 401 applications to VT and NH.

Matt indicated his availability as:

Tuesday (November 29th) after 11:00 and on

Thursday (December 1st) until 2:00

Are you available for either of these times? If you would like to participate and can make either of these please let me know.

John

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Sent: Monday, November 14, 2022 9:59 AM

To: John Ragonese <jragonese@greatriverhydro.com>; Will, Lael <lael.will@vermont.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>

Subject: RE: Proposed BF minimum flow unit briefing

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Hi John,

My schedule before Thanksgiving is a little up in the air right now, but I am available on Tuesday (November 29th) after 11:00 and on Thursday (December 1st) until 2:00.

Thanks,

Matt

From: John Ragonese <jragonese@greatriverhydro.com>

Sent: Monday, November 14, 2022 9:44 AM

To: Will, Lael <lael.will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>

Cc: Jennifer Griffin <jgriffin@greatriverhydro.com>

Subject: Proposed BF minimum flow unit briefing

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Lael, Matt,

Neither of you were able to participate in the initial pre-filing consultation/presentation we gave a month or two ago on our proposal for a new minimum flow unit at BF dam that would be utilizing

the [Natel RHT fish friendly turbine/generator](#)

We are preparing materials that we would file with the FERC to revise the license application for the BF project to reflect this and our intent is to distribute this for review, comment and further consultation as needed in advance of the FERC filing.

My question is since, both of you were unable to participate in the initial outreach, would you still like me to do so? Either individually or to you both together. I would also try and invite your respective 401 leaders although they did attend the first outreach.

Please LMK so I can make a plan, and if you would like me to – provide your availability between now and last week of Nov (first partial week in Dec)

Thanks.

John

John L. Ragonese, FERC License Manager

Great River Hydro, LLC

40 Pleasant Street; Suite 202

Portsmouth NH 03801

Phone: 603.498.2851

Email: jragonese@greatriverhydro.com

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From: [Tilley, James](#)
To: [John Ragonese](#)
Cc: [Holmes, Erin](#)
Subject: RE: Proposed BF minimum flow unit briefing
Date: Tuesday, November 15, 2022 9:46:20 AM
Attachments: [image003.png](#)
[image004.png](#)

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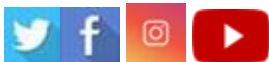
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Thank you for the invitation.

Regards,

James Tilley

Water Quality Certification Supervisor
Water Division, Watershed Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
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james.tilley@des.nh.gov



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From: [John Ragonese](#)
To: [Carpenter, Matthew](#); [Will, Lael](#); [Crocker, Jeff](#)
Subject: Re: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)
Date: Thursday, September 8, 2022 3:29:02 PM

Thanks Matt. I'll try to follow up and update you and provide information shared at the meeting.

Ultimately, we are seeking a statement of support for the approach we are taking; very fish friendly design and will follow up with studies to evaluate survival and injury to confirm once it's operational.

Get [Outlook for iOS](#)

From: Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>
Sent: Thursday, September 8, 2022 3:25:55 PM
To: John Ragonese <jragonese@greatriverhydro.com>; Will, Lael <lael.will@vermont.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>
Subject: RE: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)

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I am not available tomorrow.

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Will you folks be participating in tomorrow's pre-filing consultation meeting? I have no confirmations or declines. Or perhaps this can serve as a reminder.

John

-----Original Appointment-----

From: Google Calendar <calendar-notification@google.com> **On Behalf Of** abe@natelenergy.com
Sent: Thursday, September 8, 2022 8:57 AM
To: John Ragonese

Subject: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)

When: Friday, September 9, 2022 10:30 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where:

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abe@natelenergy.com has accepted this invitation.

Thanks Everyone for getting back to me by participating in the Doodle Poll for this BF min flow unit pre-filing consultation mtg. At this point, based on the responses, I would like to hold the mtg on September 9 at 10:30 for up to 2 hours.

The only person who responded out of the 10 responses thus far that could not do 10:30-12 was Brett but he indicated he was available at 12:30 so perhaps he can make it to the tail end or others can brief him.

My apologies to VT DFW and NHFG, if this time does not work as I have not received a response yet from either of you, but let's book this time at this stage and hopefully you can join the Teams call. More info to follow.

John

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Phone: 603.498.2851
Email: jragonese@greatriverhydro.com

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When

Friday Sep 9, 2022 · 07:30 – 09:30 (Pacific Time - Los Angeles)

Organizer

[John Ragonese](#)
jragonese@greatriverhydro.com

Guests

abe@natelenergy.com - creator
[Haro, Alexander](#)
bryan_sojkowski@fws.gov
btowler@usgs.gov
[Chuck Mekus](#)
[Dan P](#)
[Davis, Eric](#)
[Pica, Jessica E](#)
[Julianne Rosset \(julianne_rosset@fws.gov\)](mailto:Julianne Rosset (julianne_rosset@fws.gov))
[Sprinkle, Ken](#)
[Will, Lael](#)
[Grader, Melissa](#)
sterling@natelenergy.com
james.w.tilley@des.nh.gov
[Crocker, Jeff](#)
[Jennifer Griffin](#)
[Carpenter, Matthew](#)
[Mike Parker](#)
[Brandon Kibbe](#) - optional
[Jeff Blaney](#) - optional
stephen.kartalia@ferc.gov - optional
[View all guest info](#)

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Date: Thursday, September 8, 2022 3:26:04 PM

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To: Will, Lael <lael.will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>
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More info to follow.

John

John L. Ragonese, FERC License Manager
Great River Hydro, LLC
40 Pleasant Street; Suite 202
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When

Friday Sep 9, 2022 · 07:30 – 09:30 (Pacific Time - Los Angeles)

Organizer

John Ragonese
jragonese@greatriverhydro.com

Guests

abe@natelenergy.com - creator
Haro, Alexander
bryan_sojkowski@fws.gov
btowler@usgs.gov
Chuck Mekus
Dan P
Davis, Eric
Pica, Jessica E
Julianne Rosset (julianne_rosset@fws.gov)

[Sprankle, Ken](#)
[Will, Lael](#)
[Grader, Melissa](#)
sterling@natelenergy.com
james.w.tilley@des.nh.gov
[Crocker, Jeff](#)
[Jennifer Griffin](#)
[Carpenter, Matthew](#)
[Mike Parker](#)
[Brandon Kibbe](#) - optional
[Jeff Blaney](#) - optional
stephen.kartalia@ferc.gov - optional
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From: [John Ragonese](#)
To: [Will, Lael](#)
Subject: RE: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)
Date: Thursday, September 8, 2022 12:04:00 PM
Attachments: [image001.png](#)

Sorry Lael. Will send you any of the materials shared and follow-up with you to answer questions or update you on the mtg

From: Will, Lael <Lael.Will@vermont.gov>
Sent: Thursday, September 8, 2022 11:48 AM
To: John Ragonese <jragonese@greatriverhydro.com>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <jeff.crocker@vermont.gov>
Subject: RE: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Can't make it. I'm already double booked and the date was selected before I could respond.
sorry



Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Department of Fish and Wildlife
Fisheries Division
100 Mineral St | Springfield, VT 05156-3168
802-777-0827 cell
Lael.Will@vermont.gov
www.vtfishandwildlife.com

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, September 8, 2022 11:37 AM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <Jeff.Crocker@vermont.gov>
Subject: FW: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)

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Will you folks be participating in tomorrow's pre-filing consultation meeting? I have no confirmations or declines. Or perhaps this can serve as a reminder.

John

-----Original Appointment-----

From: Google Calendar <calendar-notification@google.com> **On Behalf Of** abe@natelenergy.com

Sent: Thursday, September 8, 2022 8:57 AM

To: John Ragonese

Subject: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)

When: Friday, September 9, 2022 10:30 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where:

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abe@natelenergy.com has accepted this invitation.

Thanks Everyone for getting back to me by participating in the Doodle Poll for this BF min flow unit pre-filing consultation mtg. At this point, based on the responses, I would like to hold the mtg on September 9 at 10:30 for up to 2 hours. The only person who responded out of the 10 responses thus far that could not do 10:30-12 was Brett but he indicated he was available at 12:30 so perhaps he can make it to the tail end or others can brief him. My apologies to VT DFW and NHFG, if this time does not work as I have not received a response yet from either of you, but let's book this time at this stage and hopefully you can join the Teams call. More info to follow.

John

John L. Ragonese, FERC License Manager
Great River Hydro, LLC
40 Pleasant Street; Suite 202
Portsmouth NH 03801
Phone: 603.498.2851
Email: jragonese@greatriverhydro.com

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this transmission in error, please notify the sender by reply e-mail and delete the message and any attachments.

When

Friday Sep 9, 2022 · 07:30 – 09:30 (Pacific Time - Los Angeles)

Organizer

[John Ragonese](#)
jragonese@greatriverhydro.com

Guests

abe@natelenergy.com - creator
[Haro, Alexander](#)
bryan_sojkowski@fws.gov
btowler@usgs.gov
[Chuck Mekus](#)
[Dan P](#)
[Davis, Eric](#)
[Pica, Jessica E](#)
[Julianne Rosset \(julianne_rosset@fws.gov\)](mailto:Julianne_Rosset(julianne_rosset@fws.gov))
[Sprinkle, Ken](#)
[Will, Lael](#)
[Grader, Melissa](#)
sterling@natelenergy.com
james.w.tilley@des.nh.gov
[Crocker, Jeff](#)
[Jennifer Griffin](#)
[Carpenter, Matthew](#)
[Mike Parker](#)
[Brandon Kibbe](#) - optional
[Jeff Blaney](#) - optional
stephen.kartalia@ferc.gov - optional
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attachments.

From: [Will, Lael](#)
To: [John Ragonese](#); [Carpenter, Matthew](#); [Crocker, Jeff](#)
Subject: RE: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)
Date: Thursday, September 8, 2022 11:48:23 AM
Attachments: [image003.png](#)

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sorry



Lael Will, M.S. | Fisheries Biologist (she/her)
Vermont Agency of Natural Resources | Department of Fish and Wildlife
Fisheries Division
100 Mineral St | Springfield, VT 05156-3168
802-777-0827 cell
Lael.Will@vermont.gov
www.vtfishandwildlife.com

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, September 8, 2022 11:37 AM
To: Will, Lael <Lael.Will@vermont.gov>; Carpenter, Matthew <mathew.a.carpenter@wildlife.nh.gov>; Crocker, Jeff <Jeff.Crocker@vermont.gov>
Subject: FW: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)

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From: Google Calendar <calendar-notification@google.com> **On Behalf Of** abe@natelenergy.com
Sent: Thursday, September 8, 2022 8:57 AM
To: John Ragonese
Subject: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)
When: Friday, September 9, 2022 10:30 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where:

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John L. Ragonese, FERC License Manager
Great River Hydro, LLC
40 Pleasant Street; Suite 202
Portsmouth NH 03801
Phone: 603.498.2851
Email: jragonese@greatriverhydro.com

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and any attachments.

When

Friday Sep 9, 2022 · 07:30 – 09:30 (Pacific Time - Los Angeles)

Organizer

John Ragonese
jragonese@greatriverhydro.com

Guests

abe@natelenergy.com - creator

[Haro, Alexander](#)

bryan_sojkowski@fws.gov

btowler@usgs.gov

[Chuck Mekus](#)

[Dan P](#)

[Davis, Eric](#)

[Pica, Jessica E](#)

[Julianne Rosset \(julianne_rosset@fws.gov\)](mailto:julianne_rosset@fws.gov)

[Sprankle, Ken](#)

[Will, Lael](#)

[Grader, Melissa](#)

sterling@natelenergy.com

james.w.tilley@des.nh.gov

[Crocker, Jeff](#)

[Jennifer Griffin](#)

[Carpenter, Matthew](#)

[Mike Parker](#)

[Brandon Kibbe](#) - optional

[Jeff Blaney](#) - optional

stephen.kartalia@ferc.gov - optional

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From: [John Ragonese](#)
To: [Will, Lael](#); [Carpenter, Matthew](#); [Crocker, Jeff](#)
Subject: FW: Accepted: Pre-filing Consultation re: BF Min Flow, Fish Friendly tu... @ Fri Sep 9, 2022 07:30 - 09:30 (PDT) (John Ragonese)
Date: Thursday, September 8, 2022 11:34:00 AM
Attachments: [invite.ics](#)

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John

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From: Google Calendar <calendar-notification@google.com> **On Behalf Of** abe@natelenergy.com
Sent: Thursday, September 8, 2022 8:57 AM
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John L. Ragonese, FERC License Manager
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Pleasant Street; Suite 202 40
Portsmouth NH 03801
Phone: 603.498.2851
Email: jragonese@greatriverhydro.com

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When

(Friday Sep 9, 2022 · 07:30 – 09:30 (Pacific Time - Los Angeles

Organizer

[John Ragonese](#)
jragonese@greatriverhydro.com

Guests

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[Haro, Alexander](#)
bryan_sojkowski@fws.gov
btowler@usgs.gov
[Chuck Mekus](#)
[Dan P](#)
[Davis, Eric](#)
[Pica, Jessica E](#)
[Julianne Rosset \(julianne_rosset@fws.gov](mailto:(Julianne Rosset (julianne_rosset@fws.gov)
[Sprinkle, Ken](#)
[Will, Lael](#)
[Grader, Melissa](#)
sterling@natelenergy.com
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[Crocker, Jeff](#)
[Jennifer Griffin](#)
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[Jeff Blaney](#) - optional
stephen.kartalia@ferc.gov - optional
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From: [John Ragonese](#)
To: [Sprankle, Ken](#)
Subject: RE: [EXTERNAL] Pre-filing Consultation re: BF Min Flow, Fish Friendly turbine from Natel Energy
Date: Monday, August 22, 2022 9:02:00 AM

Thank you for your note Ken. I think its an exciting opportunity to hopefully move the needle on improving fish passage and survival through turbines.

John

-----Original Appointment-----

From: Sprankle, Ken <ken_sprankle@fws.gov>

Sent: Monday, August 22, 2022 8:30 AM

To: John Ragonese

Subject: Accepted: [EXTERNAL] Pre-filing Consultation re: BF Min Flow, Fish Friendly turbine from Natel Energy

When: Friday, September 9, 2022 10:30 AM-12:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where:

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi John, thanks for arranging this meeting and the interest of GRH in using this technology. I also want to thank you and your team for working with us on finalizing the S.A., Ken

From: [Sprankle, Ken](#)
To: [John Ragonese](#)
Subject: Accepted: [EXTERNAL] Pre-filing Consultation re: BF Min Flow, Fish Friendly turbine from Natel Energy

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

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From: [John Ragonese](#)
To: [Grader, Melissa](#); [Ken Sprankle](#); btowler@usgs.gov; [Pica, Jessica E](#); [Julianne Rosset \(julianne_rosset@fws.gov\)](mailto:julianne_rosset@fws.gov); [Haro, Alexander](#); bryan_soikowski@fws.gov; [Will, Lael](#); [Carpenter, Matthew](#); [Crocker, Jeff](#); [Davis, Eric](#); james.w.tilley@des.nh.gov; [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Abe Schneider](#); sterling@natelenergy.com; [Dan P](#)
Cc: [Jeff Blaney](#); [Brandon Kibbe](#); stephen.kartalia@ferc.gov
Subject: Pre-filing Consultation re: BF Min Flow, Fish Friendly turbine from Natel Energy

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More info to follow.

John

John L. Ragonese, FERC License Manager

Great River Hydro, LLC

40 Pleasant Street; Suite 202

Portsmouth NH 03801

Phone: 603.498.2851

Email: jragonese@greatriverhydro.com <<mailto:jragonese@greatriverhydro.com>>

From: [John Ragonese](#)
To: [Grader, Melissa](#); [Ken Sprankle](#); btowler@usgs.gov; [Pica, Jessica E](#); [Julianne Rosset \(julianne_rosset@fws.gov\)](mailto:julianne_rosset@fws.gov); [Haro, Alexander](#); bryan_soikowski@fws.gov; [Will, Lael](#); [Carpenter, Matthew](#); [Crocker, Jeff](#); [Davis, Eric](#); james.w.tilley@des.nh.gov; [Jennifer Griffin](#); [Chuck Mekus](#); [Mike Parker](#); [Abe Schneider](#); sterling@natelenergy.com; [Dan P](#)
Cc: [Jeff Blaney](#); [Brandon Kibbe](#)
Subject: DOODLE POLL - Pre-filing Consultation re: BF Min Flow, Fish Friendly turbine from Natel Energy
Date: Friday, August 19, 2022 12:59:00 PM

All,

Prior to submitting a proposal to the FERC, GRH would like to introduce agency staff to our proposal to install a state-of-the-art fish friendly turbine generator from Natel Energy at the BF dam that will provide the proposed and agency supported 300 cfs p min flow.

Many of the folks from FWS and Conte are familiar with this new turbine but for those who are not, we will spend some time introducing you to the technology.

We will:

- Describe the project

 - VT renewable energy PPA award and timeframe

 - Civil design concept

- Introduce the Natel turbine technology

 - Discuss work with FWS and Conte on design and fish survival testing and results to date

 - Project timeline and how it fits in with relicensing process and timetable

 - Strategy for addressing fishery agency comments and concerns

 - Pre and post license and or unit commissioning.

Please join us to learn more about this opportunity to provide VT with additional non-carbon emitting electricity through incremental hydropower that is very sensitive to fish (passage survival and injury).

Thanks and looking forward to meeting with you soon.

[LINK to DOODLE POLL](#)

[Link to the Natel Energy RHT turbine brochure](#)

[Link to the Natel Energy RHT turbine fish passage info page](#)

John L. Ragonese, FERC License Manager

Great River Hydro, LLC

40 Pleasant Street; Suite 202

Portsmouth NH 03801

Phone: 603.498.2851

Email: jragonese@greatriverhydro.com

From: [Grader, Melissa](#)
To: [John Ragonese](#)
Subject: Re: [EXTERNAL] are you free for a quick call today?
Date: Wednesday, August 17, 2022 10:35:44 AM

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one more:

btowler@usgs.gov Brett will be on leave from 8/28 to 9/2.

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
103 East Plumtree Road, Sunderland, MA 01375
p: (413) 548-8002 ext 8124 |
fws.gov/office/new-england-ecological-services | facebook.com/usfwsnortheast/

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Wednesday, August 17, 2022 10:05 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

and

Jessica_pica@fws.gov

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
103 East Plumtree Road, Sunderland, MA 01375
p: (413) 548-8002 ext 8124 |
fws.gov/office/new-england-ecological-services | facebook.com/usfwsnortheast/

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Wednesday, August 17, 2022 9:48 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

So far, the following folks are interested in participating:

Julianne_Rosset@fws.gov
Aharo@usgs.gov

bryan_sojkowski@fws.gov

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
103 East Plumtree Road, Sunderland, MA 01375
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fws.gov/office/new-england-ecological-services | facebook.com/usfwsnortheast/

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Tuesday, August 16, 2022 11:05 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

Ken cannot make it today but lets do a call at 11:15. I just got off my FL call.

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
103 East Plumtree Road, Sunderland, MA 01375
p: (413) 548-8002 ext 8124 |
fws.gov/office/new-england-ecological-services | facebook.com/usfwsnortheast/

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Tuesday, August 16, 2022 10:13 AM
To: Grader, Melissa <melissa_grader@fws.gov>
Subject: RE: [EXTERNAL] are you free for a quick call today?

And I just re-read your initial response and saw 11:30. My apology. I read it as 11:00. We can move to 11:30 or whenever is most convenient for you and possibly Ken today.

From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Tuesday, August 16, 2022 10:05 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

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OK, thanks for that background. I'd like for Ken to participate too if he is available. Can I forward him your invite?

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
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fws.gov/office/new-england-ecological-services | facebook.com/usfwsnortheast/

From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Tuesday, August 16, 2022 9:29 AM
To: Grader, Melissa <melissa_grader@fws.gov>
Subject: Re: [EXTERNAL] are you free for a quick call today?

Perfect.

To ease the suspense, I wanted to first give you heads up and decide who's to include on a consultation meeting for a new min flow unit at the BF dam to supply the 300 cfs.

While we know we have obligations for DS passage at the dam, this idea stems from an power purchase award approved by the VTPUC under VTs std offer program for supplying renewable power. We are actually doing the same thing at Harriman dam; still in design phase.

While we are in the design phase on this project we are proposing to install the Natel RHT fish friendly turbine. I know you are somewhat aware of the turbine and excellent testing results, as are folks at Conte, Brett, Alex and Ted. We are not proposing this as the DS passage method but at the same time trying to address obvious concerns for DA passage, potential turbine survival and alike.

So today's call with you would primarily be to intro you to the proposal, how we see it fitting into the relicensing schedule, but mostly to identify who we should include on the initial agency consultation which we want to do, possibly address concerns etc all before we file anything with the FERC.

11:00 it is then and I am happy to have you include others if you would like to even on today's call. I'll send a mtg notice.

Thank M and good luck with your move too and the next day... :-)

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From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Tuesday, August 16, 2022 9:16:40 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

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Ha, I am in the same position - taking my son to school on Thursday pm/Friday am. I have time today - how about 11:30?

Melissa Grader
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Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Tuesday, August 16, 2022 9:13 AM
To: Grader, Melissa <melissa_grader@fws.gov>
Subject: Re: [EXTERNAL] are you free for a quick call today?

Yes. I would. Today potentially? Tomorrow possibly. Thursday is moving kid to college. Friday is consuling his mom... ha ha

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From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Tuesday, August 16, 2022 8:12:03 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

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Sorry - I was on vacation last week. Would you still like to talk? I have availability this week.

Melissa Grader
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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Thursday, August 11, 2022 9:19 AM
To: Grader, Melissa <melissa_grader@fws.gov>
Subject: [EXTERNAL] are you free for a quick call today?



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New, well sort of, topic!

John L. Ragonese, FERC License Manager

Great River Hydro, LLC

40 Pleasant Street; Suite 202

Portsmouth NH 03801

Phone: 603.498.2851

Email: jragonese@greatriverhydro.com

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From: [Grader, Melissa](#)
To: [John Ragonese](#)
Subject: Re: [EXTERNAL] are you free for a quick call today?
Date: Wednesday, August 17, 2022 10:06:06 AM

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

and

Jessica_pica@fws.gov

Melissa Grader
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Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
103 East Plumtree Road, Sunderland, MA 01375
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From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Wednesday, August 17, 2022 9:48 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

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Julianne_Rosset@fws.gov
Aharo@usgs.gov
bryan_sojkowski@fws.gov

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Tuesday, August 16, 2022 10:13 AM
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New, well sort of, topic!

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Great River Hydro, LLC
40 Pleasant Street; Suite 202
Portsmouth NH 03801
Phone: 603.498.2851
Email: jragonese@greatriverhydro.com

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From: [Grader, Melissa](#)
To: [John Ragonese](#)
Subject: Re: [EXTERNAL] are you free for a quick call today?
Date: Wednesday, August 17, 2022 9:49:02 AM

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New, well sort of, topic!

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Great River Hydro, LLC

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Portsmouth NH 03801

Phone: 603.498.2851

Email: jragonese@greatriverhydro.com

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From: [John Ragonese](#)
To: [Grader, Melissa](#)
Subject: RE: [EXTERNAL] are you free for a quick call today?
Date: Tuesday, August 16, 2022 10:09:00 AM

Absolutely and we can shift the call around today to accommodate him if necessary.

From: Grader, Melissa <melissa_grader@fws.gov>
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To: John Ragonese <jragonese@greatriverhydro.com>
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From: [John Ragonese](#)
To: [Grader, Melissa](#)
Cc: [Jennifer Griffin](#)
Subject: Call with M. Grader intro to BF MF unit

Intro to proposed MF unit

Answer questions

Discuss FERC process

Identify Consultation meeting attendees

Microsoft Teams meeting

Join on your computer or mobile app

Click here to join the meeting <https://teams.microsoft.com/l/meetup-join/19%3ameeting_N215NjhhMmItODJIMy00ZDU0LWE0YTUtNTI4NjFIYzFmMWNI%40thread.v2/0?context=%7b%22Tid%22%3a%2294e1d720-dfed-4b6a-9cd8-a3abbfc55c12%22%2c%22Oid%22%3a%22c12edc80-7c9d-4ec9-890a-45a3702d0bb2%22%7d>

Meeting ID: 237 328 552 158
Passcode: ouv7DA

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Learn More <<https://aka.ms/JoinTeamsMeeting>> | Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=c12edc80-7c9d-4ec9-890a-45a3702d0bb2&tenantId=94e1d720-dfed-4b6a-9cd8-a3abbfc55c12&threadId=19_meeting_N215NjhhMmItODJIMy00ZDU0LWE0YTUtNTI4NjFIYzFmMWNI@thread.v2&messageId=0&language=en-US>

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Perfect.

To ease the suspense, I wanted to first give you heads up and decide who's to include on a consultation meeting for a new min flow unit at the BF dam to supply the 300 cfs.

While we know we have obligations for DS passage at the dam, this idea stems from an power purchase award approved by the VTPUC under VTs std offer program for supplying renewable power. We are actually doing the same thing at Harriman dam; still in design phase.

While we are in the design phase on this project we are proposing to install the Natel RHT fish friendly turbine. I know you are somewhat aware of the turbine and excellent testing results, as are folks at Conte, Brett, Alex and Ted. We are not proposing this as the DS passage method but at the same time trying to address obvious concerns for DA passage, potential turbine survival and alike.

So today's call with you would primarily be to intro you to the proposal, how we see it fitting into the relicensing schedule, but mostly to identify who we should include on the initial agency consultation which we want to do, possibly address concerns etc all before we file anything with the FERC.

11:00 it is then and I am happy to have you include others if you would like to even on today's call. I'll send a mtg notice.

Thank M and good luck with your move too and the next day... :-)

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From: Grader, Melissa <melissa_grader@fws.gov>
Sent: Tuesday, August 16, 2022 9:16:40 AM
To: John Ragonese <jragonese@greatriverhydro.com>
Subject: Re: [EXTERNAL] are you free for a quick call today?

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Ha, I am in the same position - taking my son to school on Thursday pm/Friday am. I have time today - how about 11:30?

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
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103 East Plumtree Road, Sunderland, MA 01375
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From: John Ragonese <jragonese@greatriverhydro.com>
Sent: Tuesday, August 16, 2022 9:13 AM
To: Grader, Melissa <melissa_grader@fws.gov>
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Yes. I would. Today potentially? Tomorrow possibly. Thursday is moving kid to college. Friday is consoling his mom... ha ha

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Sorry - I was on vacation last week. Would you still like to talk? I have availability this week.

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
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103 East Plumtree Road, Sunderland, MA 01375
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New, well sort of, topic!

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