

FEDERAL ENERGY REGULATORY COMMISSION

Washington, DC 20426

March 8, 2019

OFFICE OF ENERGY PROJECTS

Project No. P-2514-186 – Virginia
Byllesby-Buck Hydroelectric Project
Appalachian Power Company

**Subject: Scoping Document 1 for the Byllesby-Buck Hydroelectric Project,
P-2514-186**

To the Party Addressed:

The Federal Energy Regulatory Commission (Commission) is currently reviewing the Pre-Application Document submitted by Appalachian Power Company (Appalachian) for relicensing the Byllesby-Buck Hydroelectric Project (FERC No. 2514) (Byllesby-Buck Project). The project consists of two developments, Byllesby and Buck, and is located on the New River in Carroll County, Virginia.

Pursuant to the National Environmental Policy Act (NEPA) of 1969, as amended, Commission staff intends to prepare an environmental assessment (EA), which will be used by the Commission to determine whether, and under what conditions, to issue a new license for the project. To support and assist our environmental review, we are beginning the public scoping process to ensure that all pertinent issues are identified and analyzed, and that the EA is thorough and balanced.

We invite your participation in the scoping process, and are circulating the attached Scoping Document 1 (SD1) to provide you with information on the Byllesby-Buck Project. We also are soliciting your comments and suggestions on our preliminary list of issues and alternatives to be addressed in the EA, and requesting that you identify any studies that would help provide a framework for collecting pertinent information on the resource areas under consideration necessary for the Commission to prepare the EA for the project.

We will hold two scoping meetings for the Byllesby-Buck Project to receive input on the scope of the EA. An evening meeting will be held at 7:00 p.m. on Wednesday, April 10, 2019, at the Hampton Inn-Galax. A daytime meeting will be held at 9:00 a.m. on Thursday, April 11, 2019 at the same location. We will also visit the project facilities on Wednesday, April 10, 2019, starting at 10:00 a.m.

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We invite all interested agencies, Indian tribes, non-governmental organizations, and individuals to attend one or all of these meetings. Further information on our environmental site review and scoping meetings is available in the enclosed SD1.

SD1 is being distributed to both Appalachian's distribution list and the Commission's official mailing list (see section 10.0 of the attached SD1). If you wish to be added to or removed from the Commission's official mailing list, please send your request by email to ferconlinesupport@ferc.gov or by mail to: Secretary, Federal Energy Regulatory Commission, 888 First Street, N.E., Room 1A, Washington, DC 20426. All written or emailed requests must specify your wish to be removed from or added to the mailing list and must clearly identify the following on the first page: **Byllesby-Buck Hydroelectric Project No. 2514-186**.

Please review the SD1 and, if you wish to provide comments, follow the instructions in section 6.0, *Request for Information and Studies*. If you have any questions about SD1, the scoping process, or how Commission staff will develop the EA for this project, please contact Brandi Sangunett at (202) 502-8393 or brandi.sangunet@ferc.gov. Additional information about the Commission's licensing process and the Byllesby-Buck Project may be obtained from our website (www.ferc.gov) or Appalachian's licensing website, www.aephydro.com. The deadline for filing comments and study requests is **May 7, 2019**. The Commission strongly encourages electronic filings.

Enclosure: Scoping Document 1

SCOPING DOCUMENT 1
BYLLESBY-BUCK HYDROELECTRIC PROJECT
VIRGINIA
PROJECT NO. 2514-186



Federal Energy Regulatory Commission
Office of Energy Projects
Division of Hydropower Licensing
Washington, DC

MARCH 2019

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SCOPING DOCUMENT 1

Byllesby-Buck Hydroelectric Project, No. 2514-186

1.0 INTRODUCTION

The Federal Energy Regulatory Commission (Commission or FERC), under the authority of the Federal Power Act (FPA),¹ may issue licenses for terms ranging from 30 to 50 years for the construction, operation, and maintenance of non-federal hydroelectric projects. On January 7, 2019, Appalachian Power Company (Appalachian) filed a Pre-Application Document (PAD) and Notice of Intent to seek a new license for the Byllesby-Buck Hydroelectric Project, FERC Project No. 2514 (Byllesby-Buck Project or project).²

The Byllesby-Buck Project consists of two developments, Byllesby and Buck, and is located on the New River in Carroll County, Virginia. The average annual generation from 2012 to 2016 of the Byllesby Development was 36,906 megawatt-hours (MWh) and of the Buck Development was 30,874 MWh.

A detailed description of the project is provided in section 3.0. The location of the project is shown on figure 1. The Byllesby-Buck Project does not occupy federal lands.

The National Environmental Policy Act (NEPA) of 1969,³ the Commission's regulations, and other applicable laws require that we independently evaluate the environmental effects of relicensing the Byllesby-Buck Project as proposed, and also consider reasonable alternatives to the licensee's proposed action. At this time, we intend to prepare an environmental assessment (EA) that describes and evaluates the probable effects, including an assessment of the site-specific and cumulative effects, if any, of the proposed action and alternatives. The EA preparation will be supported by a scoping process to ensure identification and analysis of all pertinent issues. Although our current intent is to prepare an EA, there is a possibility that an environmental impact statement (EIS) will be required. The scoping process will satisfy the NEPA scoping requirements, irrespective of whether the Commission issues an EA or an EIS.

¹ 16 U.S.C. § 791(a)-825(r) (2012).

² The current license for the Byllesby-Buck Project was issued on March 28, 1994, and expires on February 29, 2024.

³ National Environmental Policy Act of 1969, 42 U.S.C. §§ 4321-4370(f) (2012).

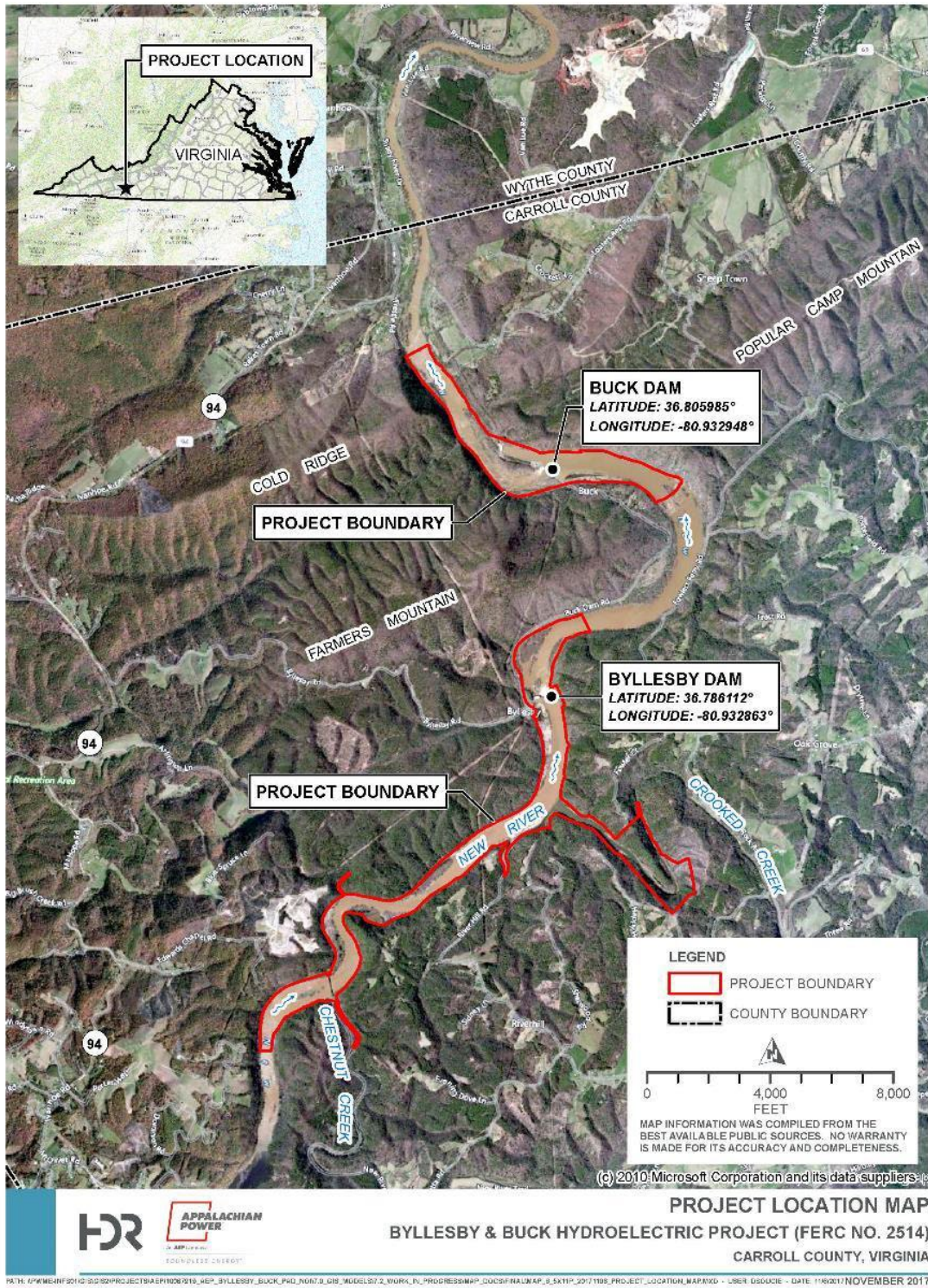


Figure 1. Location of the project. (Source: Appalachian).

2.0 SCOPING

Scoping Document 1 (SD1) is intended to advise all participants as to the proposed scope of the EA and to seek additional information pertinent to this analysis. This document contains: (1) a description of the scoping process and schedule for the development of the EA; (2) a description of the proposed action and alternatives; (3) a preliminary identification of environmental issues and proposed studies; (4) a request for comments and information; (5) a proposed EA outline; and (6) a preliminary list of comprehensive plans that are applicable to the project.

2.1 PURPOSES OF SCOPING

Scoping is the process used to identify issues, concerns, and opportunities for enhancement or mitigation associated with a proposed action. In general, scoping should be conducted during the early planning stages of a project. The purposes of the scoping process are as follows:

- invite participation of federal, state, and local resource agencies, Indian tribes, non-governmental organizations (NGOs), and the public to identify significant environmental and socioeconomic issues related to the proposed project;
- determine the resource issues, depth of analysis, and significance of issues to be addressed in the EA;
- identify how the project would or would not contribute to cumulative effects in the project area;
- identify reasonable alternatives to the proposed action that should be evaluated in the EA;
- solicit, from participants, available information on the resources at issue, including existing information and study needs; and
- determine the resource areas and potential issues that do not require detailed analysis during review of the project.

2.2 COMMENTS, SCOPING MEETINGS, AND ENVIRONMENTAL SITE REVIEW

During preparation of the EA, there will be several opportunities for the resource agencies, Indian tribes, NGOs, and the public to provide input. These opportunities occur:

- during the public scoping process and study plan meetings, when we solicit oral and written comments regarding the scope of issues and analysis for the EA;
- in response to the Commission's notice that the project is ready for environmental analysis; and
- after issuance of the EA when we solicit written comments on the EA.

In addition to written comments solicited by this SD1, we will hold two public scoping meetings and an environmental site review in the vicinity of the project. A daytime meeting will focus on concerns of the resource agencies, NGOs, and Indian tribes, and an evening meeting will focus on receiving input from the public. We invite all interested agencies, Indian tribes, NGOs, and individuals to attend one or both of the meetings to assist us in identifying the scope of environmental issues that should be analyzed in the EA. All interested parties are also invited to participate in the environmental site review. The times and locations of the meetings and environmental site review are as follows:

Evening Scoping Meeting

Date and Time: **Wednesday, April 10, 2019 at 7:00 p.m.**
 Location: Hampton Inn-Galax
 205 Cranberry Road
 Galax, VA 24333
 Phone: (276) 238-4605

Daytime Scoping Meeting

Date and Time: **Thursday, April 11, 2019 at 9:00 a.m.**
 Location: Hampton Inn-Galax
 205 Cranberry Road
 Galax, VA 24333
 Phone: (276) 238-4605

Environmental Site Review

Date and Time: **Wednesday, April 10, 2019 at 10:00 a.m.**

Location: Participants will meet at Byllesby Dam located at the intersection of Byllesby Road and the New River Trail near Ivanhoe, VA 24350; thereafter, participants should be prepared to drive or carpool to other locations within the project boundary.

Please RSVP via email to Elizabeth B. Parcell at ebparcell@aep.com **on or before April 3, 2019** if you plan to attend the environmental site review. Persons not providing an RSVP by April 3, 2019, will not be allowed on the environmental site review.

Individuals may not access the site without escort of the facility owner, Appalachian Power Company. Also, persons attending the environmental site review must adhere to the following requirements: (1) persons must be 18 years or older; (2) persons must have a current, valid, government-issued or school photo identification (i.e., driver's license, etc.); (3) persons with open-toed shoes/sandals/flip flops/high heels, etc. will not be allowed on the environmental site review; (4) no photography will be allowed inside the powerhouses; (5) small bags containing personal items for the site visit (i.e., notebooks, maps, water, etc.) will be allowed, but are subject to search; (6) no weapons are allowed on-site; (7) no alcohol/drugs are allowed on-site (or persons exhibiting the effects thereof); (8) hard hats and safety glasses (PPE) will be required while on-site, please bring personal PPE if available, otherwise PPE will be provided; (9) no animals (except for service animals) are allowed on the environmental site review; and (10) individuals participating in the environmental site review will be required to sign a waiver of liability.

The scoping meetings will be recorded by a court reporter, and all statements (verbal and written) will become part of the Commission's public record for the project. Before each meeting, all individuals who attend, especially those who intend to make statements, will be asked to sign in and clearly identify themselves for the record. Interested parties who choose not to speak or who are unable to attend the scoping meetings may provide written comments and information to the Commission as described in section 6.0. These meetings are posted on the Commission's calendar located on the internet at www.ferc.gov/EventCalendar/EventsList.aspx, along with other related information.

Meeting participants should come prepared to discuss their issues and/or concerns as they pertain to the relicensing of the Byllesby-Buck Project. It is advised that participants review the PAD in preparation for the scoping meetings. Copies of the PAD are available for review at the Commission in the Public Reference Room or may be viewed on the Commission's website (www.ferc.gov), using the "eLibrary" link. Enter the docket number, P-2514, to access the documents. For assistance, contact FERC

Online Support at FERCOnlineSupport@ferc.gov or toll free at 1-866-208-3676, or for TTY, (202) 502-8659. A copy of the PAD also can be obtained from Appalachian's licensing website (<http://www.aephydro.com>) or be available for inspection and reproduction at the following address: Appalachian Power Company, 40 Franklin Road SW, Roanoke, Virginia, 24011.

Following the scoping meetings and comment period, all issues raised will be reviewed and decisions made as to the level of analysis needed. If preliminary analysis indicates that any issues presented in this scoping document have little potential for causing significant effects, the issue(s) will be identified and the reasons for not providing a more detailed analysis will be given in the EA.

If we receive no substantive comments on SD1, then we will not prepare a Scoping Document 2 (SD2). Otherwise, we will issue SD2 to address any substantive comments received. The SD2 will be issued for informational purposes only; no response will be required. The EA will address recommendations and input received during the scoping process.

3.0 PROPOSED ACTION AND ALTERNATIVES

In accordance with NEPA, the environmental analysis will consider the following alternatives, at a minimum: (1) the no-action alternative, (2) the applicant's proposed action, and (3) alternatives to the proposed action.

3.1 NO-ACTION ALTERNATIVE

Under the no-action alternative, the Byllesby-Buck Project would continue to operate as required by the current project license (i.e., there would be no change to the existing environment). No new environmental protection, mitigation, or enhancement measures would be implemented. We use this alternative to establish baseline environmental conditions for comparison with other alternatives.

3.1.1 Existing Project Facilities

The Byllesby Development consists of : (1) a 64-foot-high, 528-foot-long concrete dam and main spillway section topped with four sections of 9-foot-high flashboards, five sections of 9-foot-high inflatable Obermeyer crest gates, and six bays of 10-foot-high Tainter gates; (2) an auxiliary spillway including six sections of 9-foot-high flashboards; (3) a 239-acre impoundment with a gross storage capacity of 2,000 acre-feet; (4) a powerhouse containing four generating units with a total authorized installed capacity of 21.6 megawatts (MW); and (5) appurtenant facilities.

The Buck Development consists of : (1) a 42-foot-high, 353-foot-long concrete dam; (2) a 1,005-foot-long, 19-foot-high spillway section topped with 20 sections of 9-foot-high flashboards, four sections of 9-foot-high inflatable Obermeyer crest gates, and six bays of 10-foot-high Tainter gates; (3) a 66-acre impoundment with a gross storage capacity of 661 acre-feet; (4) a powerhouse containing three generating units with a total authorized installed capacity of 8.5 MW; and (5) appurtenant facilities

Each development is undergoing modification, as approved by an order amending license issued by the Commission on May 18, 2017,⁴ to replace several sections of existing wooden flashboards with inflatable Obermeyer crest gates. Once installed and operational, the available Obermeyer crest gates will serve to smooth project operation by reducing impoundment water level fluctuations and instances of inadvertent flow to the bypassed reaches and reducing the frequency of maintenance drawdowns associated with wooden flashboard failure and replacement.

⁴ 159 FERC ¶ 62,187.

3.1.2 Existing Project Operations

The Byllesby-Buck Project operates in a run-of-river mode under all flow conditions. Because the Buck Development is only about 3 miles downstream from the Byllesby Development, the operation of the two developments is closely coordinated. Buck Development operation is dependent on flows through the Byllesby Development. Under normal operating conditions, Appalachian operates the project to use available flows for powerhouse generation, and maintains the elevation of the Byllesby impoundment between 2,078.2 feet and 2,079.2 feet⁵ and the Buck impoundment between 2,002.4 feet and 2,003.4 feet. Under article 403 of the current license, Appalachian is also required to release a minimum flow of 360 cubic feet per second (cfs) or inflow to the project, whichever is less, downstream of the project powerhouses.

When inflow to either development exceeds the maximum hydraulic capacity of the turbines (5,868 cfs for Byllesby and 3,540 cfs for Buck), the Tainter gates are opened to pass the excess flow. Gate openings are planned and based on monitoring of the upstream U.S. Geological Survey (USGS) gage at Galax (#03164000) and Byllesby and Buck forebay elevations. If inflows exceed the capacity of the Tainter gates, the inflatable Obermeyer crest gates are operated to pass additional flow, followed by manual tripping of the wooden flashboards, if required. The wooden flashboards must be subsequently re-installed during a period when the impoundment is drawn down to the spillway crest elevation. During flood-stage flows, all generating units at the powerhouse may need to be shut down due to the loss of operating head. The Byllesby auxiliary spillway is operated after release of all available inflatable crest gate and wooden flashboard sections, typically at flows in excess of 46,690 cfs.

Ramping rates are required under Article 406 of the current license for the protection of fish resources downstream of the Buck spillway. The gradual reduction of flow allows fish to progressively leave the bypassed reach, versus possible stranding at sudden flow discontinuation. Following periods of spill from the Buck spillway when a spillway gate has been opened 2 feet or more, Appalachian is required to discharge flows through a 2-foot-wide gate opening for at least 3 hours. Appalachian is then required to reduce the opening to 1 foot for at least an additional 3 hours, after which Appalachian may close the gate.

Tainter gate operation and electricity generation at both Byllesby and Buck is remotely controlled from Appalachian's 24-hour control center located in Columbus, Ohio. Operators are stationed at the control center 24 hours per day, 7 days per week.

⁵ All elevations refer to National Geodetic Vertical Datum of 1929 (NGVD 29).

Plant personnel are present at the Byllesby-Buck Project during normal working hours (8 hours per day during weekday mornings and afternoons) to perform routine maintenance.

3.2 APPLICANT'S PROPOSAL

The proposed action is to continue the existing operation and maintenance of the Byllesby-Buck Project. The current license for the project expires on February 29, 2024.

3.2.1 Proposed Project Facilities and Operation

Appalachian is presently evaluating the feasibility and benefits of operating the developments with 1-foot-lower impoundment levels (i.e., still a 1-foot operating band, but with 1-foot lower normal maximum and minimum impoundment elevations) during the winter months (e.g., December through March). The purpose of the lower winter impoundment level would be to reduce the risk of overtopping project structures (and the resultant risks to the project, downstream areas, and personnel and public safety) due to ice jams on the New River, such as those that occurred at the project in January 2010. Should Appalachian propose this modification in its license application it is not expected to significantly affect project generation. No other changes to project operation or facilities are proposed at this time.

3.2.2 Proposed Environmental Measures

Appalachian proposes to continue the existing operation and maintenance of the Byllesby-Buck Project which includes the protection, mitigation, and enhancement (PM&E) measures required by the current license and subsequent amendments. These measures are described below.

Geologic and Soil Resources

- There are no existing or proposed PM&E measures related to geology and soils for the Byllesby-Buck Project. The potential need for PM&E measures will be evaluated during the relicensing process.

Aquatic Resources

- Continue operating the project in a run-of-river mode, maintaining elevation of the Byllesby impoundment between 2,078.2 feet and 2,079.2

feet and the elevation of the Buck impoundment between 2,002.4 feet and 2,003.4 feet (Article 401).

- Continue providing a minimum flow of 360 cfs, or inflow to the project, whichever is less, to the New River downstream of each powerhouse (Buck and Byllesby) to protect aquatic resources (Article 403).
- Continue implementing the existing ramping rate⁶ for the Buck bypassed reach; whereby, following periods of spill when a spillway gate has been opened 2 feet or more, water will continue to be released into the bypassed reach through a 2-foot-gate opening for at least 3 hours, then the gate opening will be reduced to 1 foot for 3 hours before closing the gate.

Terrestrial Resources

- Continue to follow a Commission-approved Wildlife Management Plan that includes provisions to annually inspect undeveloped land within the project boundary for evidence of increased human disturbance, consult with Virginia Department of Game and Inland Fisheries (Virginia DGIF) about activities that affect these lands and notify Virginia DGIF of any unanticipated impacts within these lands, and monitor bank erosion (Article 408).

Threatened and Endangered Species

- There are no existing or proposed PM&E measures related to threatened and endangered species for the Byllesby-Buck Project. The potential need for PM&E measures will be evaluated during the relicensing process.

Recreation and Land Use

- Continue to follow a Commission-approved recreation plan and continue to provide project recreation access, monitor recreation use and demand, consult with interested stakeholders on potential recreation enhancement measures, and update the recreation plan as needed (Article 411).

⁶ 70 FERC ¶ 62,130 (1995). Order Modifying and Approving Ramping Rate Assessment Plan.

Aesthetic Resources

- There are no existing or proposed PM&E measures related to aesthetic resources for the Byllesby-Buck Project. The potential need for PM&E measures will be evaluated during the relicensing process.

Cultural Resources

- Continue to follow a Commission-approved cultural resources management plan (CRMP) and to update the CRMP with the filing of its final license application. Appalachian does not anticipate any adverse effects to cultural resources (Article 409).

3.3 DAM SAFETY

It is important to note that dam safety constraints may exist and should be taken into consideration in the development of proposals and alternatives considered in the pending proceeding. For example, proposed modifications such as the potential 1-foot-lower impoundment levels during winter, could impact the integrity of the dam structure. As the proposal and alternatives are developed, the applicant must evaluate the effects and ensure that the project would meet the Commission's dam safety criteria found in Part 12 of the Commission's regulations and the Engineering Guidelines (<http://www.ferc.gov/industries/hydropower/safety/guidelines/eng-guide.asp>).

3.4 ALTERNATIVES TO THE PROPOSED ACTION

Commission staff will consider and assess all alternative recommendations for operational or facility modifications, as well as PM&E measures identified by the Commission, the agencies, Indian tribes, NGOs, and the public.

3.5 ALTERNATIVES CONSIDERED BUT ELIMINATED FROM DETAILED STUDY

At present, we propose to eliminate the following alternatives from detailed study in the EA.

3.5.1 Federal Government Takeover

In accordance with § 16.14 of the Commission's regulations, a federal department or agency may file a recommendation that the United States exercise its right to take over a hydroelectric power project with a license that is subject to sections 14 and 15 of the

FPA.⁷ We do not consider federal takeover to be a reasonable alternative. Federal takeover of the project would require congressional approval. While that fact alone would not preclude further consideration of this alternative, there is currently no evidence showing that federal takeover should be recommended to Congress. No party has suggested that federal takeover would be appropriate, and no federal agency has expressed interest in operating the project.

3.5.2 Non-power License

A non-power license is a temporary license the Commission would terminate whenever it determines that another governmental agency is authorized and willing to assume regulatory authority and supervision over the lands and facilities covered by the non-power license. At this time, no governmental agency has suggested a willingness or ability to take over the project. No party has sought a non-power license, and we have no basis for concluding that the Byllesby-Buck Project should no longer be used to produce power. Thus, we do not consider a non-power license a reasonable alternative to relicensing the project.

3.5.3 Project Decommissioning

Decommissioning of the project could be accomplished with or without dam removal. Either alternative would require denying the relicense application and surrender or termination of the existing license with appropriate conditions. There would be significant costs involved with decommissioning the project and/or removing any project facilities. The project provides a viable, safe, and clean renewable source of power to the region. With decommissioning, the project would no longer be authorized to generate power.

No party has suggested project decommissioning would be appropriate in this case, and we have no basis for recommending it. Thus, we do not consider project decommissioning a reasonable alternative to relicensing the project with appropriate environmental measures.

⁷ 16 U.S.C. §§ 791(a)-825(r).

4.0 SCOPE OF CUMULATIVE EFFECTS AND SITE-SPECIFIC RESOURCE ISSUES

4.1 CUMULATIVE EFFECTS

According to the Council on Environmental Quality's regulations for implementing NEPA (40 C.F.R. 1508.7), a cumulative effect is the effect on the environment that results from the incremental effect of the action when added to other past, present and reasonably foreseeable future actions, regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time, including hydropower and other land and water development activities.

4.1.1 Resources that could be Cumulatively Affected

Based on information in the PAD for the Byllesby-Buck Project, and preliminary staff analysis, we have not identified any resources that could be cumulatively affected by the proposed continued operation and maintenance of the Byllesby-Buck Project in combination with other hydroelectric projects and other activities in the New River Basin.

4.2 RESOURCE ISSUES

In this section, we present a preliminary list of environmental issues to be addressed in the EA. We identified these issues, which are listed by resource area, by reviewing the PAD and the Commission's record for the Byllesby-Buck Project. This list is not intended to be exhaustive or final, but contains the issues raised to date. After the scoping process is complete, we will review the list and determine the appropriate level of analysis needed to address each issue in the EA.

4.2.1 Geologic and Soils Resources

- Effects of continued project operation and maintenance on shoreline erosion in the impoundments at each development (Buck and Byllesby).

4.2.2 Aquatic Resources

- Effects of continued project operation and maintenance on water quality, including dissolved oxygen (DO) and water temperature,

upstream and downstream of each development, including the Buck bypassed reach.

- Adequacy of the existing 360-cfs minimum flow for aquatic resources, including resident fish species, downstream of each development (Buck and Byllesby).
- Whether there is a need for a minimum flow (beyond leakage) in the Buck bypassed reach.
- Effects of continued project maintenance (periodic impoundment drawdowns to replace flashboards and periodic dredging to remove sediments from the impoundments) on aquatic resources, particularly freshwater mussels and fish spawning habitat in the impoundments of each development.
- Effects of continued project operation on aquatic resources, including entrainment and impingement mortality of resident fishes, such as walleye, smallmouth bass, and spotted bass at each development.
- Effects of continued project operation and maintenance on species of special concern such as the Eastern hellbender.
- Adequacy of the existing ramping rate to prevent fish stranding in the Buck bypassed reach.

4.2.3 Terrestrial Resources

- Effects of continued project operation, including impoundment fluctuations, on riparian and wetland habitat and associated wildlife.
- Effects of continued project operation and maintenance on upland wildlife habitat and associated wildlife such as bald eagles.

4.2.4 Threatened and Endangered Species

- Effects of continued project operation and maintenance on the federally listed Indiana bat, northern long-eared bat, and Virginia spiraea.

4.2.5 Recreation, Land Use, and Aesthetic Resources

- Effects of continued project operation and maintenance on recreation, land use, and aesthetics within the project area.
- Adequacy of existing recreational facilities and public access to the project to meet current and future recreational demand.

4.2.6 Cultural Resources

- Effects of project operation and maintenance on historic properties and archeological resources that are included in, eligible for listing in, or potentially eligible for inclusion in the National Register of Historic Places.
- Effects of project operation and maintenance on any previously unidentified historic or archeological resources or traditional cultural properties that may be eligible for inclusion in the National Register of Historical Places.

4.2.7 Developmental Resources

- Economics of the project and the effects of any recommended environmental measures on the project's economics.

5.0 PROPOSED STUDIES

Depending upon the findings of studies completed by Appalachian and the recommendations of the consulted entities, Appalachian will consider, and may propose certain other measures to enhance environmental resources affected by the project as part of the proposed action. Appalachian's initial study proposals are identified by resource area in table 1. Detailed information on Appalachian's initial study proposals can be found in the PAD. Further studies may need to be added to this list based on comments provided to the Commission and Appalachian from interested participants, including Indian tribes.

Table 1. Appalachian's initial study proposals. (Source: Appalachian)

Resource Area and Study Name	Proposed Study
Geology and Soils	
Shoreline Stability Assessment	To provide updated information about existing project conditions, as well as to evaluate the need for any additional erosion control measures at specific areas of concern, Appalachian proposes to conduct a Shoreline Stability Assessment for both the Byllesby and Buck developments. Appalachian anticipates that this assessment will consist of a survey of the project impoundments to locate any sites of erosion or shoreline instability. Appalachian proposes to inventory, map, and photograph any such areas, using a scoring or ranking system (e.g., Bank Erosion Hazard Index) to try to identify areas that have the potential to erode at unnaturally high rates and to prioritize any areas where remedial action may be needed.
Aquatic Resources	
Water Quality Study	Appalachian proposes to conduct a single season water quality study by continuously monitoring (at 15-minute

Resource Area and Study Name	Proposed Study
	<p>intervals) water temperature, DO, and water levels from June through October at three locations: (1) upstream of the Byllesby impoundment, (2) downstream of the Byllesby powerhouse, and (3) downstream of the Buck powerhouse. In addition, once per month from June through October, depth profiles of water temperature, DO, pH, and specific conductance will be collected at three locations within each impoundment (Buck and Byllesby). This survey would be used to gather baseline water quality data to determine consistency with applicable water quality standards and designated uses.</p>
<p>Bypass Reach Aquatic Habitat and Flow Assessment</p>	<p>Appalachian proposes to perform a desktop aquatic habitat assessment of each project bypassed reach, utilizing high resolution aerial imagery and/or Light Detection and Ranging (LiDAR) data to: (1) delineate the reach into pool, riffle, run, and shoal habitats; (2) characterize dominant substrate types; and (3) identify instream habitat types (e.g., littoral zones, hard structure, woody debris, vegetative cover). Appalachian proposes to supplement the desktop habitat assessment described above, with limited field reconnaissance to confirm site conditions.</p> <p>In addition, Appalachian would collect water level logger and discharge measurements during controlled test gate openings at the spillway to develop a stage-discharge rating curve for a select location.</p>

Resource Area and Study Name	Proposed Study
Inflatable Obermeyer Crest Gate Operational Effectiveness Evaluation	Appalachian proposes to conduct a study to confirm that operation of the project dams with the inflatable Obermeyer crest gates has the desired effects of minimizing impoundment fluctuations and instances of inadvertent spill to the bypassed reaches (especially at the Buck Development). Appalachian proposes to conduct this evaluation utilizing an operations model that has been developed for the project. Using this model, Appalachian will be able to simulate project operation with the Obermeyer crest gates installed, including instances of spills to the bypassed reach(es), impoundment level changes, and powerhouse generation for a hypothetical period of time. The level loggers to be installed in the bypassed reach(es) as part of the Bypass Reach Aquatic Habitat and Flow Assessment described above will serve to collect data about water level changes due to spillway operations. These data can be used to validate the operations model.
Recreation Resources	
Recreational Needs Assessment	Appalachian proposes to conduct a recreational assessment of the project to assess existing recreational opportunities and potential improvements to facilities. Appalachian will incorporate existing monitoring information into the study report and recommendations.

6.0 REQUEST FOR INFORMATION AND STUDIES

We are asking federal, state, and local resource agencies, Indian tribes, NGOs, and the public to forward to the Commission any information that will assist us in conducting an accurate and thorough analysis of the project-specific and cumulative effects associated with relicensing the Byllesby-Buck Project. The types of information requested include, but are not limited to:

- information, quantitative data, or professional opinions that may help define the geographic and temporal scope of the analysis (both site-specific and cumulative effects), and that helps identify significant environmental issues;
- identification of, and information from, any other EA, EIS, or similar environmental study (previous, on-going, or planned) relevant to the proposed relicensing of the Byllesby-Buck Project;
- existing information and any data that would help to describe the past and present actions and effects of the project and other developmental activities on environmental and socioeconomic resources;
- information that would help characterize the existing environmental conditions and habitats;
- the identification of any federal, state, or local resource plans, and any future project proposals in the affected resource area (e.g., proposals to construct or operate water treatment facilities, recreation areas, water diversions, timber harvest activities, or fish management programs, along with any implementation schedules);
- documentation that the proposed project would or would not contribute to cumulative adverse or beneficial effects on any resources. Documentation can include, but need not be limited to, how the project would interact with other projects in the area and other developmental activities; study results; resource management policies; and reports from federal and state agencies, local agencies, Indian tribes, NGOs, and the public;
- documentation showing why any resources should be excluded from further study or consideration; and

- study requests by federal and state agencies, local agencies, Indian tribes, NGOs, and the public that would help provide a framework for collecting pertinent information on the resource areas under consideration necessary for the Commission to prepare the EA/EIS for the project.

All requests for studies filed with the Commission must meet the criteria found in Appendix A, *Study Plan Criteria*.

The requested information, comments, and study requests should be submitted to the Commission no later than **May 7, 2019**. All filings must clearly identify the following on the first page: **Byllesby-Buck Project (P-2514-186)**. Scoping comments may be filed electronically via the Internet. See 18 C.F.R. 385.2001(a)(1)(iii) and the instructions on the Commission's website <http://www.ferc.gov/docs-filing/efiling.asp>. Commenters can submit brief comments up to 6,000 characters, without prior registration, using the eComment system at <http://www.ferc.gov/docs-filing/ecomment.asp>. You must include your name and contact information at the end of your comments. For assistance, please contact FERC Online Support at FERCOnlineSupport@ferc.gov or toll free at 1-866-208-3676, or for TTY, (202) 502-8659. Although the Commission strongly encourages electronic filing, documents may also be paper-filed. To paper-file, please send a paper copy to: Secretary, Federal Energy Regulatory Commission, 888 First Street, NE, Washington, D.C. 20426.

Register online at <http://www.ferc.gov/esubscription.asp> to be notified via email of new filings and issuances related to this or other pending projects. For assistance, please contact FERC Online Support at ferconlinesupport@ferc.gov.

Any questions concerning the scoping meetings, site visits, or how to file written comments with the Commission should be directed to Brandi Sangunett at (202) 502-8393 or brandi.sangunett@ferc.gov. Additional information about the Commission's licensing process and the Byllesby-Buck Project may be obtained from the Commission's website, www.ferc.gov.

7.0 EA PREPARATION SCHEDULE

At this time, we anticipate the need to prepare an EA. The EA will be sent to all persons and entities on the Commission's service and mailing lists for the Byllesby-Buck Project. The EA will include our recommendations for operating procedures, as well as PM&E measures that should be part of any license issued by the Commission. All recipients will then have 30 days to review the EA and file written comments with the Commission. All comments on the EA filed with the Commission will be considered in preparation of any license order. A schedule for the EA preparation will be provided after a license application is filed.

The major milestones, with pre-filing target dates are as follows:

<u>Major Milestone</u>	<u>Target Date</u>
Scoping Meetings	April 2019
License Application Filed	February 2022
Ready for Environmental Analysis Notice Issued	
Deadline for Filing Comments, Recommendations, and Agency Terms and Conditions/Prescriptions	
Single EA Issued	
Comments on EA Due	
Deadline for Filing Modified Agency Recommendations	
Order Issued	

A copy of Appalachian's process plan, which has a complete list of relicensing milestones for the Byllesby-Buck Project, including those for developing the license application, is attached as Appendix B to this SD1.

8.0 PROPOSED EA OUTLINE

The preliminary outline for the Byllesby-Buck Project EA is as follows:

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9.0 COMPREHENSIVE PLANS

Section 10(a)(2) of the FPA, 16 U.S.C. section 803(a)(2)(A), requires the Commission to consider the extent to which a project is consistent with federal and state comprehensive plans for improving, developing, or conserving a waterway or waterways affected by a project. The staff has preliminarily identified and reviewed the plans listed below that may be relevant to the Byllesby-Buck Project. Agencies are requested to review this list and inform the Commission staff of any changes. If there are other comprehensive plans that should be considered for this list that are not on file with the Commission, or if there are more recent versions of the plans already listed, they can be filed for consideration with the Commission according to 18 CFR 2.19 of the Commission's regulations. Please follow the instructions for filing a plan at <http://www.ferc.gov/industries/hydropower/gen-info/licensing/complan.pdf>.

The following is a list of comprehensive plans currently on file with the Commission that may be relevant to the Byllesby-Buck Project.

National Park Service. The Nationwide Rivers Inventory. Department of the Interior, Washington, D.C. 1993.

Ohio River Basin Commission. 1977. Kanawha River Basin comprehensive coordinated joint plan. Cincinnati, Ohio. July 1977.

U.S. Fish and Wildlife Service. Canadian Wildlife Service. 1986. North American waterfowl management plan. Department of the Interior. Environment Canada. May 1986.

U.S. Fish and Wildlife Service. n.d. Fisheries USA: the recreational fisheries policy of the U.S. Fish and Wildlife Service. Washington, D.C.

U.S. Forest Service. 1978. Mount Rogers National Recreation Area final management plan. Department of Agriculture. Roanoke, Virginia.

U.S. Forest Service. 2004. Revised Land and Resource Management Plan for the Jefferson National Forest. Management Bulletin R8-MB 115A. Department of Agriculture. Roanoke, Virginia.

U.S. Forest Service. 1993. George Washington National Forest revised land and resource management plan. Department of Agriculture, Harrisonburg, Virginia.

Virginia Department of Conservation and Recreation. The 2007 Virginia outdoors plan (SCORP). Richmond, Virginia.

Virginia Department of Environmental Quality. 2015. Commonwealth of Virginia State Water Resources Plan. Richmond, Virginia. October 2015.

Virginia State Water Control Board. 1986. Minimum instream flow study – final report. Annadale, Virginia. February 1986.

10.0 MAILING LIST

The list below is the Commission's official mailing list for the Byllesby-Buck Project (FERC No. 2514). If you want to receive future mailings for the Byllesby-Buck Project and are not included in the list below, please send your request by email to efiling@ferc.gov or by mail to: Secretary, Federal Energy Regulatory Commission, 888 First Street, N.E., Room 1A, Washington, DC 20426. All written and emailed requests to be added to the mailing list must clearly identify the following on the first page: Byllesby-Buck Project No.2514-186. You may use the same method if requesting removal from the mailing list below.

Register online at <http://www.ferc.gov/esubscribenow.htm> to be notified via email of new filings and issuances related to this or other pending projects. For assistance, please contact FERC Online Support at FERCOnlineSupport@ferc.gov or toll free at 1-866-208-3676, or for TTY, (202) 502-8659.

Official Mailing List for the Byllesby-Buck Project

Appalachian Power Company
Kenneth E. McDonough, Esq
Assistant General Counsel
1 Riverside Plaza
Columbus, OH 43081

American Whitewater
Kevin Richard Colburn
National Stewardship Director
1035 Van Buren Street
Missoula, MT 59802

Appalachian Power Company
Frank Michael Simms
Hydro Support Manager
40 Franklin Road
Roanoke, VA 24013

Coastal Canoeists
Charles Ware, Conservation Chair
PO Box 566
Richmond, VA 23218-0566

Advisory Council on Historic
Preservation
John T Eddins
401 F Street N.W., Suite 308
Washington, DC 20001-2637

Appalachian Power Company
David Mark Shirley
Energy Production Supervisor
1 Riverside Plaza, 24rd Floor
Columbus, OH 43215

American Canal Society, Inc.
William E. Trout, III, Director
3806 S. Amherst Hwy
Madison Heights, VA 24572

Winston & Strawn LLP
John A Whittaker
1700 K St. N.W.
Washington, DC 20006-3817

Appalachian Power Company
Thomas St. Pierre
Associate General Counsel
1 Riverside Plaza, 29th Floor
Columbus, OH 43215

Appalachian Power Company
David M Shirley
PO Box 2021
Roanoke, VA 24022-2121

American Electric Power Service
Corporation
Douglas Rosenberger
Plant Manager Hydro
40 Franklin Road SW
Roanoke, VA 24011

Appalachian Power Company
Legal Department
PO Box 16631
Columbus, OH 43216-6631

Dickenson County Board of Supervisor
Mark Vanover, County Administrator
PO Box 1098
Clintwood, VA 24228-1098

Federal Emergency Management Agency
Regional Office
3003 Chamblee Tucker Rd
Atlanta, GA 30341

U.S. Fish & Wildlife Service
Region 1
David W. Sutherland, Sr
177 Admiral Cochrane Dr.
Annapolis, MD 21401

Flannagan Water Authority
William Stokes, Executive Director
52 Flannagan Dam Road
Haysi, VA 24256

Town of Fries
PO Box 452
Fries, VA 24330-0452

County of Grayson
PO Box 217
Independence, VA 24348-0217

Town of Hillsville
PO Box 545
Hillsville, VA 24343-0545

Historic Landmarks Commission
2801 Kensington Ave
Richmond, VA 23221-2470

Jonnie B. Deel Memorial Library
Shelia Phipps, Librarian
PO Box 650
Clintwood, VA 24228-0650

Mt. Rogers Planning District Commission
1021 Terrace Dr
Marion, VA 24354-4137

NOAA National Marine Fisheries Service
Office of Program Planning & Integration
NEPA Coordinator
1315 East-West Highway
Silver Spring, MD 20910

Northern Virginia Region Parks Authority
5400 Ox Rd
Fairfax Station, VA 22039-1022

Town of Pulaski
PO Box 660
Pulaski, VA 24301-0660

Region 2000 Regional Commission
Executive Director
828 Main St, Fl 18
Lynchburg, VA 24504

Town of Clintwood
Donald Baker
PO Box 456
Clintwood, VA 24228-0456

U.S. Army Corps of Engineers
District Office
803 Front St
Norfolk, VA 23510-1011

US Army Corps of Engineers
Louisville District
PO Box 59
Louisville, KY 40201-0059

U.S. Army Corps of Engineers
Divisional Office
Regulatory Branch
550 Main St; Rm 10524
Cincinnati, OH 45202-3222

U.S. Army Corps of Engineers
550 Main Street
Cincinnati, OH 45202

U.S. Bureau of Indian Affairs
Office of the Solicitor
1849 C Street, NW, MS 6557
Washington, DC 20240

U.S. Bureau of Indian Affairs
Director, Trust Services
1849 C St NW, MS-4637
Washington, DC 20240-0001

U.S. Bureau of Land Management
Land & Renewable Resources
FERC Contact
1849 C St NW
Washington, DC 20240

U.S. Department of Interior
Office of Environmental Policy and
Compliance
Director
1849 C Street, N.W., MS 2430
Washington, DC 20240

U.S. Department of Interior
U.S. Bureau Reclamation
Michael C. Connor Esq
1849 C Street NW
Washington, DC 20240-0001

U.S. Department of Interior
Anthony R. Conte
300 Westgate Center Dr
Hadley, MA 01035-9587

U.S. Department of Interior
James Epstein
300 Westgate Center Dr
Hadley, MA 01035-9587

U.S. Environmental Protection Agency
Region III
1650 Arch St
Philadelphia, PA 19103-2029

U.S. Environmental Protection Agency
Heinz Mueller
Region IV
61 Forsyth St SW
Atlanta, GA 30303-8931

USDA Forest Service
David Purser
NEPA Coordinator
1720 Peachtree St NW
Atlanta, GA 30309

U.S. Fish & Wildlife Service
Regional Director
300 Westgate Center Dr
Northeast Regional Office
Hadley, MA 01035-9587

Virginia Dept of Conservation and
Recreation
Division of Planning and Recreation
600 E. Main St., 24th Floor
Richmond, VA 23219

U.S. National Park Service
FERC Contact
1924 Building
100 Alabama St SW
Atlanta, GA 30303-8701

Virginia Dept of Conservation and
Recreation
Robbie Rhur, Enviro. Program Planner
600 East Main Street, Floor 17
Richmond, VA 23219-2094

U.S. National Park Service
Kevin Mendik, ESQ
NPS Hydro Prgm Coord
15 State Street, 10th floor
Boston, MA 02109

Virginia Dept of Environmental Quality
Bettina Sullivan, Manager
PO Box 1105
Richmond, VA 23218

U.S. Senate
Honorable Mark Warner
475 Russell Senate Office Bldg
Washington, DC 20510

Virginia Dept of Environmental Quality
Director
PO Box 1105
Richmond, VA 23218-1105

U.S. Senate
Honorable Tim Kaine
231 Russell Senate Office Bldg
Washington, DC 20510

Virginia Dept of Environmental Quality
Southwest Regional Office
Jeffrey Hurst, Regional Director
355-A Deadmore St
Abingdon, VA 24210

USDA Forest Service
Ron Bush
1700 Park Ave SW
Norton, VA 24273-1618

Virginia Dept of Agriculture and
Consumer Services
PO Box 1163
Richmond, VA 23218-1163

Virginia Department of Health
Director
PO Box 2448
Richmond, VA 23218-2448

Virginia Department of Historical
Resources
2801 Kensington Ave
Richmond, VA 23221-2470

Virginia Department of Mines, Minerals,
and Energy
Director, Div. of Energy
1100 Bank St, 11th Flr
Richmond, VA 23219

Virginia Division of Mined Land
Reclamation
Randy Casey, Division Director
PO Box 900
Big Stone Gap, VA 24219-0900

Virginia Marine Resources Commission
Ben McGinnis
2600 Washington Ave Fl 3
Newport News, VA 23607

Virginia Office of Attorney General
Attorney General
900 E Main St
Richmond, VA 23219-3513

Virginia Soil and Water Conservation
Commission
Director
600 E. Main St., 24th Floor
Richmond, VA 23219

Virginia State Corporation Commission
Sherry H Bridewell, Senior Counsel
1300 East Main St, 10 Fl
Richmond, VA 23219

Virginia Wildlife Federation
Neal D Emerald, Vice President
21851 Locomotive Ter Ste 303
Sterling, VA 20166-6836

County of Wythe
275 S 4th Street
108 Country Ln Office Building
Wytheville, VA 24382-4900

Town of Wytheville
PO Box 533
Wytheville, VA 24382-0533

APPENDIX A
STUDY PLAN CRITERIA
18 CFR Section 5.9(b)

Any information or study request must contain the following:

1. Describe the goals and objectives of each study proposal and the information to be obtained;
2. If applicable, explain the relevant resource management goals of the agencies or Indian tribes with jurisdiction over the resource to be studied;
3. If the requester is not a resource agency, explain any relevant public interest considerations in regard to the proposed study;
4. Describe existing information concerning the subject of the study proposal, and the need for additional information;
5. Explain any nexus between project operations and effects (direct, indirect, and/or cumulative) on the resource to be studied, and how the study results would inform the development of license requirements;
6. Explain how any proposed study methodology (including any preferred data collection and analysis techniques, or objectively quantified information, and a schedule including appropriate filed season(s) and the duration) is consistent with generally accepted practice in the scientific community or, as appropriate, considers relevant tribal values and knowledge; and
7. Describe considerations of level of effort and cost, as applicable, and why proposed alternative studies would not be sufficient to meet the stated information needs.

APPENDIX B
BYLLESBY-BUCK PROJECT PROCESS PLAN AND SCHEDULE

Shaded milestones are unnecessary if there are no study disputes. If the due date falls on a weekend or holiday, the due date is the following business day. Early filings or issuances will not result in changes to these deadlines.

Responsible Party	Pre-Filing Milestone	Date	FERC Regulation
Appalachian	Issue Public Notice for NOI/PAD	1/7/2019	5.3(d)(2)
Appalachian	File NOI/PAD	1/7/2019	5.5, 5.6
FERC	Tribal Meetings	2/6/2019	5.7
FERC	Issue Notice of Commencement of Proceeding and Scoping Document 1	3/8/2019	5.8
FERC	Scoping Meetings and Project Site Visit	4/10/2019, 4/11/2019	5.8(b)(viii)
All Stakeholders	File Comments on PAD/Scoping Document 1 and Study Requests	5/7/2019	5.9
FERC	Issue Scoping Document 2 (if necessary)	6/21/2019	5.10
Appalachian	File Proposed Study Plan	6/21/2019	5.11(a)
All Stakeholders	Proposed Study Plan Meeting	7/21/2019	5.11(e)
All Stakeholders	File Comments on Proposed Study Plan	9/19/2019	5.12
Appalachian	File Revised Study Plan	10/19/2019	5.13(a)
All Stakeholders	File Comments on Revised Study Plan	11/3/2019	5.13(b)
FERC	Issue Director's Study Plan Determination	11/18/2019	5.13(c)
Mandatory Conditioning Agencies	File Any Study Disputes	12/8/2019	5.14(a)
Dispute Panel	Select Third Dispute Resolution Panel Member	12/23/2019	5.14(d)

Responsible Party	Pre-Filing Milestone	Date	FERC Regulation
Dispute Panel	Convene Dispute Resolution Panel	12/28/2019	5.14(d)(3)
Appalachian	File Comments on Study Disputes	1/2/2020	5.14(i)
Dispute Panel	Dispute Resolution Panel Technical Conference	1/7/2020	5.14(j)
Dispute Panel	Issue Dispute Resolution Panel Findings	1/27/2020	5.14(k)
FERC	Issue Director's Study Dispute Determination	2/16/2020	5.14(l)
Appalachian	First Study Season	Spring - Fall 2020	5.15(a)
Appalachian	File Initial Study Report	11/17/2020	5.15(c)(1)
All Stakeholders	Initial Study Report Meeting	12/2/2020	5.15(c)(2)
Appalachian	File Initial Study Report Meeting Summary	12/17/2020	5.15(c)(3)
All Stakeholders	File Disagreements/Requests to Amend Study Plan	1/16/2021	5.15(c)(4)
All Stakeholders	File Responses to Disagreements/Amendment Requests	2/15/2021	5.15(c)(5)
FERC	Issue Director's Determination on Disagreements/Amendments	3/17/2021	5.15(c)(6)
Appalachian	Second Study Season	Spring - Fall 2021	5.15(a)
Appalachian	File Preliminary Licensing Proposal (or Draft License Application)	10/1/2021	5.16(a)-(c)
All Stakeholders	File Comments on Preliminary Licensing Proposal (or Draft License Application)	12/30/2021	5.16(e)
Appalachian	File Updated Study Report	11/17/2021	5.15(f)
All Stakeholders	Updated Study Report Meeting	12/2/2021	5.15(f)

Responsible Party	Pre-Filing Milestone	Date	FERC Regulation
Appalachian	File Updated Study Report Meeting Summary	12/17/2021	5.15(f)
Appalachian	File Final License Application	2/28/2022	5.17
All Stakeholders	File Disagreements/Requests to Amend Study Plan	1/16/2022	5.15(f)
Appalachian	Issue Public Notice of Final License Application Filing	3/14/2022	5.17(d)(2)
All Stakeholders	File Responses to Disagreements/Amendment Requests	2/15/2022	5.15(f)
FERC	Issue Director's Determination on Disagreements/Amendments	3/17/2022	5.15(f)

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