WATER STRATEGY, HYDRO LICENSING & LAKE SERVICES



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February 28, 2025

Electronically Filed

Debbie-Anne A. Reese, Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, D.C. 20426

Subject: Bad Creek Pumped Storage Project (P-2740-053)

Filing of Draft License Application

Dear Secretary Reese:

Duke Energy Carolinas, LLC (Duke Energy or Licensee) is the Licensee, owner, and operator of the 1,400-megawatt (MW) Bad Creek Pumped Storage Project (Project) (FERC Project No. 2740) located in Oconee County, South Carolina, approximately eight miles north of Salem. The Project utilizes the Bad Creek Reservoir as the upper reservoir and Lake Jocassee, which is licensed as part of the Keowee-Toxaway Hydroelectric Project (FERC Project No. 2503), as the lower reservoir.

The existing (original) license for the Project was issued by the Federal Energy Regulatory Commission (FERC or Commission) for a 50-year term, with an effective date of August 1, 1977, and expires July 31, 2027. Accordingly, Duke Energy is pursuing a new license for the Project pursuant to the Commission's Integrated Licensing Process (ILP), as described at 18 Code of Federal Regulations (CFR) Part 5. Duke Energy is proposing additional energy storage and generation capacity at the Project, which would be developed by constructing a new 1,400-MW Bad Creek II Power Complex (Bad Creek II) adjacent to the existing powerhouse.

Pursuant to 18 CFR § 5.16, Duke Energy is hereby filing the Draft License Application (DLA) for the Project for review and comment. As described in the DLA, in the new license term, Duke Energy is proposing to continue operating the Project on a "daily cycle" mode, commonly alternating between generating and pumping on a daily basis, with the reservoir typically maintained in the upper 50 to 60 feet (ft) at elevations of 2,310 and 2,250 ft above mean sea level (compared to a maximum drawdown of 160 ft). Following Bad Creek II construction, the Licensee would continue operating the upper reservoir within the current licensed maximum operating band; however, because of the increased hydraulic capacity with the addition of Bad Creek II, generation run times (at best efficiency) would decrease from approximately 23 hours to approximately 12 hours, and the energy density would increase by a factor of approximately two. This means that twice as many MW-hours could be brought to the grid during times of increased demand.

The DLA includes all studies conducted for the relicensing and reflects the substantive amount of consultation that has occurred throughout the ILP process, including the Bad Creek Relicensing Agreement signed in January 2025 by Duke Energy, resource agencies, and non-governmental organizations. The Bad Creek Relicensing Agreement is a comprehensive settlement agreement reflecting a shared vision for the operation of the Project, including Bad Creek II, during the next license term. Accordingly, the DLA includes preliminary proposals for protection, mitigation, and enhancement (PM&E) measures related to operations and resources associated with the Project and construction of Bad Creek II. The proposed PM&E measures described in the DLA reflect careful consideration of available information, results of studies conducted, issues specific to the Project, and the Bad Creek Relicensing Agreement. Duke Energy notes these proposals are preliminary and may be refined in the Final License Application.

The DLA includes five volumes, as described below. Duke Energy has noted throughout the DLA where additional or updated information will be provided in the FLA.

Volume I of V (Public)

Volume I contains Public information and exhibits as listed below.

- Table of Contents
- Initial Statement and Additional Information Required by 18 CFR §4.32(a)
- Exhibit A Project Description
- Exhibit B Project Operation and Resource Utilization
- Exhibit C Construction History and Proposed Construction Schedule
- Exhibit D Costs and Financing

Volume II of V (Public)

Volume II contains Exhibit E and appendices as listed below.

- Exhibit E Environmental Report
 - o Appendix A Consultation Documentation
 - Appendix B Bad Creek Relicensing Agreement
 - Appendix C Summary of Climate Data and Future Operations on Water Resources
 - Appendix D Relicensing Study Reports
 - Appendix E Draft Management Plans

Volume III of V (Public)

Volume III contains Public information and exhibits as listed below.

- Exhibit F List of General Design Drawings
- Exhibit G Project Boundary Maps
- Exhibit H Plans and Ability to Operate

Volume IV of V (CONTROLLED UNCLASSIFIED INFORMATION // CRITICAL ENERGY/ELECTRIC INFRASTRUCTURE INFORMATION [CUI//CEII])

Volume IV contains CUI/CEII materials not intended for public release, and includes the following:

Exhibit F – General Design Drawings

Bad Creek Pumped Storage Project (P-2740) Draft License Application

- Exhibit F Supporting Design Report
- Exhibit H Single Line Diagrams of the Transmission Systems

Volume V of V (PRIVILEGED [CUI//PRIV])

Volume V contains CUI/PRIV materials not intended for public release, and includes the following:

Cultural Resources Study Report

Duke Energy is filing the DLA with the Commission electronically and is distributing this letter electronically to the parties listed on the attached distribution list. All parties interested in the relicensing process may obtain a copy of the DLA electronically through FERC's eLibrary system at https://elibrary.ferc.gov/idmws/search/fercgensearch.asp under docket number P-2740-053, or on Duke Energy's website at https://www.badcreekpumpedstorage.com/.

In accordance with 18 CFR § 5.16(e), interested parties may file comments regarding the DLA within 90 days of the date of this letter, by May 29, 2025. All comments must be filed with FERC electronically or via the following address:

Debbie-Anne A. Reese, Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, D.C. 20426

If there are questions regarding this filing, please contact me at Alan.Stuart@duke-energy.com or via phone at 980-373-2079.

Sincerely,

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Enclosures

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