

November 23, 2021

VIA ELECTRONIC FILING

Project No. 2628-065
R.L. Harris Hydroelectric Project
Transmittal of the Final License Application

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

Dear Secretary Bose,

Alabama Power Company (Alabama Power) is the Federal Energy Regulatory Commission (FERC or Commission) licensee for the R.L. Harris Hydroelectric Project (Project) (FERC No. 2628-065). The existing Project license will expire on November 30, 2023. Pursuant to the Commission's Integrated Licensing Process and 18 CFR Part 5, Alabama Power is filing the Harris Project Final License Application. Exhibits A, B, C, D, E, G, and H are filed as "Public." Exhibit F of the Final License Application contains information that qualifies for filing under Critical Energy Infrastructure Information (CEII) and is filed as such. Additionally, due to the sensitive nature of the material and in accordance with Section 304 of the National Historic Preservation Act, the Harris Project Historic Properties Management Plan and supporting documents for this FLA have been filed as "Privileged¹." Alabama Power is also including as part of its Final License Application the final study reports for all relicensing studies². Attachment 1 provides a list of the contents of the Final License Application.

Public components of the Final License Application are available electronically on FERC's website (<http://www.ferc.gov>) by going to the "eLibrary" link and entering the docket number (P-2628). The public documents are also available on the Project relicensing website at <https://harrisrelicensing.com>. As COVID-19 protocols allow, public components of the Final License Application will also be available for inspection at the office of Alabama Power Company, 600 North 18th Street, Birmingham, AL 35203, and at the following public libraries near the Project: Scottsboro Public Library, Cleburne County Public Library, Lineville Public Library, and Annie L. Awbrey Public Library. In accordance with 18 CFR § 5.17(d)(2), Alabama Power will publish notice of the filing of the Final License Application twice in the following

¹ Accession No. 20211123-5033

² Note that some of these reports have been revised to address stakeholder comments received after the final study reports were filed (Aquatic Resources Study Report, Downstream Aquatic Habitat Study Report, and Water Quality Study Report). All reports include relevant comment tables and have been updated with new figures and formatting for consistency.

newspapers: The Anniston Star (Cleburne County); The Clay Times (Clay County); The Randolph Leader (Randolph County); and the Jackson County Sentinel (Jackson County).

Alabama Power has filed for the record Geographic Information Systems (GIS) data for this FLA, as requested by FERC, under Accession No. 20211122-5099. Additionally, GIS files relevant to relicensing studies were previously filed for the record under Accession Nos. 20181113-0016 (Federal Lands within the Project, baseline data relevant to the Wildlife Management Plans) and 20210129-5393 (Threatened & Endangered species data), and these filings are herein noted for incorporation by reference.

Additionally, Alabama Power notes the following documents, reports, and Microsoft Excel datasets that were previously filed for the record, which are noted here for incorporation by reference:

- Summary of R.L. Harris Downstream Flow Adaptive Management History and Research³
- Water Quantity, Water Use, and Discharge Report²
- Baseline Water Quality Report²
- Desktop Fish Entrainment and Turbine Mortality Report²
- Sensitive Area (Wetlands) Assessment Report and Wetland Delineation and Stream Environmental Assessment Report⁴
- Final Study Plans⁵
- Information regarding models used during relicensing studies⁶
- Corrected Tallapoosa River Temperature Data (2000-2018) (Excel)⁷

On October 1, 2021, FERC issued its comments on the Preliminary Licensing Proposal for the Harris Project⁸, which included several technical questions regarding data collected and analysis conducted as part of relicensing studies. Because FERC's comments were presented in a format similar to that of an Additional Information Request, Alabama Power is providing as Attachment 2 its response to FERC comments.

³ Accession No. 20180601-5125

⁴ Accession Nos. 20181113-0016, 20181113-4002

⁵ Accession No. 20190513-5093

⁶ Accession No. 20210629-5073

⁷ Accession No. 20210816-5246

⁸ Accession No. 20211001-3009

We look forward to working with FERC over the next two years as it evaluates the application, and trust FERC will contact us should it have any questions or need additional information. If there are any questions concerning the Final License Application or Supporting Documents, please contact me at arsegars@southernco.com or 205-257-2251.

Sincerely,



Angie Anderegg
Harris Relicensing Project Manager

Attachments:

Contents of Final License Application
Response to FERC Comments on the Preliminary Licensing Proposal
Harris Stakeholder Mailing List

cc: Harris Stakeholder List
Sarah Salazar, Federal Energy Regulatory Commission

Attachment 1

Contents of Final License Application

CONTENTS OF FINAL LICENSE APPLICATION

R.L. Harris Hydroelectric Project (P-2628) Final License Application

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P-2628-XX, F-15, EAST DOWNSTREAM RETAINING WALL, XX-XX-XXXX	CEII	P-2628-XX, F-15, EAST DOWNST RETAINING WALL, XX-XX-XXXX.pdf
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Sheet 2	Public	Exhibit_G_Sheet_2.pdf
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Sheet 5	Public	Exhibit_G_Sheet_5.pdf
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Sheet 9	Public	Exhibit_G_Sheet_9.pdf
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Sheet 9	Public	Exhibit_G_Sheet_9.tif
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Exhibit H	Public	Exhibit_H.pdf
FINAL REPORTS		
Operating Curve Change Feasibility Analysis Phase 1 Report	Public	FSR_Op_Curve_Phase_1.pdf
Operating Curve Change Feasibility Analysis Phase 2 Report	Public	FSR_Op_Curve_Phase_2.pdf
Downstream Release Alternatives Phase 1 Report	Public	FSR_DRA_Phase_1.pdf
Downstream Release Alternatives Phase 2 Report		
Main Report, Appendices A through D, Appendix F	Public	FSR_DRA_Phase_2.pdf
Appendix E - Maps	Privileged	FSR_DRA_Phase_2_AppE.pdf
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Battery Energy Storage System (BESS) Report	Public	FSR_BESS.pdf
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Appendices A - D	Public	FSR_Erosion_and_Sedimentation_Pt2.pdf
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Aquatic Resources Study Report	Public	FSR_Aquatic_Resources.pdf
Downstream Aquatic Habitat Study Report		
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Phase 1 Project Lands Evaluation Study Report		
Main Report, Appendix A, Appendices D and E	Public	FSR_Project_Lands.pdf
Appendix B - Maps and Supporting Information of Proposed Changes	Public	FSR_Project_Lands_AppB.pdf
Appendix C - Large Scale Maps of R.L. Harris Project Lands Maps 1-10	Public	FSR_Project_Lands_AppC_Pt1.pdf
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Appendix C - Large Scale Maps of R.L. Harris Project Lands Maps 31-38	Public	FSR_Project_Lands_AppC_Pt4.pdf
A Botanical Inventory of a 35-Acre Parcel at Flat Rock Park, Blake's Ferry, Alabama	Public	FSR_Botanical_Inventory_Report.pdf
Recreation Evaluation Report		
Main Report, Appendix A, Appendices C through K	Public	FSR_Recreation_Evaluation.pdf
Appendix B - Lake Harris Recreation Site Inventory and Condition Assessment Part 1	Public	FSR_Recreation_Evaluation_AppB_Pt1.pdf
Appendix B - Lake Harris Recreation Site Inventory and Condition Assessment Part 2	Public	FSR_Recreation_Evaluation_AppB_Pt2.pdf
Appendix B - Lake Harris Recreation Site Inventory and Condition Assessment Part 3	Public	FSR_Recreation_Evaluation_AppB_Pt3.pdf
Appendix B - Lake Harris Recreation Site Inventory and Condition Assessment Part 4	Public	FSR_Recreation_Evaluation_AppB_Pt4.pdf
DRAFT PME & CONCEPTUAL PLANS		
Aquatic Nuisance Vegetation and Vector Control Management Program	Public	PME_Aquatic_Nuis_Veg_Vector_Control.pdf
Wildlife Management Plan	Public	PME_Wildlife_Management_Plan.pdf
Shoreline Management Plan		
Main Report, Appendix A, Appendices C through E	Public	PME_Shoreline_Management_Plan.pdf
Appendix B - Shoreline Classification Maps Part 1	Public	PME_Shoreline_Management_Plan_AppB_Pt1.pdf
Appendix B - Shoreline Classification Maps Part 2	Public	PME_Shoreline_Management_Plan_AppB_Pt2.pdf
Appendix B - Shoreline Classification Maps Part 3	Public	PME_Shoreline_Management_Plan_AppB_Pt3.pdf
Draft Recreation Plan		
Main Report, Appendix A	Public	PME_Draft_Recreation_Plan.pdf
Appendix B - Project Recreation As-Built Site Plan Drawings Part 1	Public	PME_Draft_Recreation_Plan_AppB_Pt1.pdf
Appendix B - Project Recreation As-Built Site Plan Drawings Part 2	Public	PME_Draft_Recreation_Plan_AppB_Pt2.pdf

DESCRIPTION	SECURITY	FILE NAME
Appendix B - Project Recreation As-Built Site Plan Drawings Part 3	Public	PME_Draft_Recreation_Plan_AppB_Pt3.pdf
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Biological Assessment	Public	PME_Biological_Assessment.pdf
Erosion Monitoring Conceptual Plan	Public	PME_Erosion_Monitoring_Conceptual_Plan.pdf
Aquatic Resources Monitoring Conceptual Plan	Public	PME_Aquatic_Resources_Monitoring_Conceptual_Plan.pdf
Project Operation and Flow Monitoring Conceptual Plan	Public	PME_Project_Operation_Flow_Monitoring_Conceptual_Plan.pdf
Water Quality Monitoring Conceptual Plan	Public	PME_Water_Quality_Monitoring_Conceptual_Plan.pdf
Historic Properties Management Plan¹	Privileged	
CONSULTATION		
General Comments Received Following Updated Study Report Meeting	Public	CON_General_Comment_Table.pdf
Consultation Summary for Harris Project Relicensing	Public	CON_Meeting_List.pdf
Consultation Record by Year		
2018 - January through March	Public	CON_2018_Pt1.pdf
2018 - April through June	Public	CON_2018_Pt2.pdf
2018 - July through September	Public	CON_2018_Pt3.pdf
2018 - October, Part 1	Public	CON_2018_Pt4.pdf
2018 - October, Part 2 through December	Public	CON_2018_Pt5.pdf
2019 - January through April	Public	CON_2019_Pt1.pdf
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2019 - June through September	Public	CON_2019_Pt3.pdf
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2021 - January through April	Public	CON_2021_Pt1.pdf
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2018	Privileged	PRIV_CON_2018.pdf
2019	Privileged	PRIV_CON_2019.pdf
2020	Privileged	PRIV_CON_2020.pdf
2021	Privileged	PRIV_CON_2021.pdf

¹ The Historic Properties Management Plan and supporting documents have been filed separately. See Accession No. 20211123-5033.

Attachment 2

Response to FERC Comments on the Preliminary Licensing Proposal

Federal Energy Regulatory Commission Staff Comments¹ on Preliminary Licensing Proposal

General

1. Throughout the preliminary licensing proposal (PLP), many text citations refer to information sources that are not provided in the list of references in section 14 of the PLP. Instead, many text citations in the PLP refer to the pre-application document (PAD), study reports, and/or proposed draft resource plans for the full citations for these information sources. For example, many in-text citations provide the author(s) and year of the original source of the information, followed by "...as cited in Alabama Power and Kleinschmidt 2018," which is the citation for the PAD. To facilitate review of the license application, please include in-text citations to original sources and a complete list of citations for all the original sources of information that will be used in the references section.

Alabama Power Response:

All in text citations "...as cited in Alabama Power and Kleinschmidt 2018" in the Exhibit E have been updated to cite to the original source reference.

¹ Note that footnotes from FERC's comment letter have been omitted from this document.

2. The PLP includes several figures (e.g., 2-4, 2-5, and 3-1) which denote Alabama Power and/or the U.S. Army Corps of Engineers' (Corps) hydroelectric projects in the Alabama-Coosa-Tallapoosa River Basin. Horseshoe Bend and Jaybird Landing were identified as the hydraulic extents of various study areas. These locations, as well as two main upstream U.S. Geological Survey (USGS) gages (i.e., Heflin and Newell), are mentioned throughout the PLP as reference points but are not labeled on the figures. Please identify these locations on all maps in the license application, as appropriate.

Alabama Power Response:

Alabama Power has edited two figures (2-4 and 2-5) in Exhibit E to include the locations of the Newell, Heflin, Wadley, and Horseshoe Bend gages. The location of Jaybird Landing was also added to Figures 2-4 and 2-5 at FERC's request. However, due to the scale of the figure and the data represented, all figures do not include these four gages and Jaybird Landing.

3. The PLP and draft and final study reports include maps that display multiple geographic information system (GIS) data layers that were developed during the pre- filing study phase of the relicensing process for the Harris Project. Having access to these GIS data layers would facilitate Commission staff’s analysis of the effects of proposed project operation and environmental measures on project resources. Please file the GIS data layers identified in the following table as ArcMap shapefiles with the license application.

Data Layer	Report	Figure
Stream segments	Final Erosion Report Trutta High Definition Stream Survey videos downstream of dam	8
Water Quality Sampling Points	Corrected Water Quality Study_3-21-19	4-1
Flood Boundaries	Final-Water-Quality-Report_4-12-22, Attachment A, Initial Study Report (ISR), Appendix B, ISR Meeting Presentation	Slides 26-31
Average Bank Condition	Final-Water-Quality-Report_4-12-22, Attachment A, ISR, Appendix B, ISR Meeting Presentation	Slide 49
Worst Bank Condition Areas	Final-Water-Quality-Report_4-12-22, Attachment A, ISR, Appendix B, ISR Meeting Presentation	Slide 50
Alabama Department of Environmental Management (DEM) Monitoring Sites	Final-Water-Quality-Report_4-12-22, Attachment 3, Water Quality Study Report	Figure 3-1
Alabama Water Watch Monitoring Locations	Final-Water-Quality-Report_4-12-22, Attachment 3, Water Quality Study Report	Figure 3-11
Alabama DEM Downstream Monitoring Stations	Final-Water-Quality-Report_4-12-22, Attachment 3, Water Quality Study Report	Figure 4-1

Data Layer	Report	Figure
Alabama Cooperative Fish and Wildlife Research Unit Sampling Sites	Final Aquatic Resources Report	Figure 2-2
Level logger Locations	Final Aquatic Resources Report	Figure 3-1
Sites	Final Aquatic Resources Report	Figure 3-1
Hourly Temperature Modeling Data	Final Aquatic Resources Report, Appendix D	Pages 142-237
Tailwater Transect Locations	Final Downstream Aquatic Habitat Report	USR Presentation Slide 20
Mesohabitat Type	Final Downstream Aquatic Habitat Report	Figure 3-2 through 3-7
Tallapoosa River Bathymetric Sources	Final Downstream Release Alternatives (Phase 1) Report	Figure 4-1
785' Contour and 793' Contour	Final Erosion and Sedimentation Report	Figure 2-1 through 2-5
Sedimentation and Erosions Sites	Final Erosion and Sedimentation Report	Figure 2-1 through 2-6
Sedimentation Area	Final Erosion and Sedimentation Report	Figure 2-6 through 2-9
Sedimentation area 2007	Final Erosion and Sedimentation Report	Figure 2-10 through 2-18
Sedimentation area 2015	Final Erosion and Sedimentation Report	Figure 2-10 through 2-19
Streambank Condition Areas	Final Erosion and Sedimentation Report	Figure 3-1
Little Coon Creek Land Use 2001 and 2016	Final Erosion and Sedimentation Report	Figure 4-1
Left Bank Condition	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 12
Stream bank Modification	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 13

Data Layer	Report	Figure
Left Bank Confidence	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 17
Left Bank Condition	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 18
Stream bank Modification	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 19
Left Bank Confidence	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 23
Average Depth	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 26
Transect Locations	Final Erosion and Sedimentation Report, Appendix E, Tallapoosa River High Definition Stream Survey Final Report	Figure 35
ADCNR Quail Call Survey Locations	Final Lands Evaluation Report	Figure 4-1
Skyline WMA	Final Lands Evaluation Report	Figure 4-1
Plant Locations	Final Lands Evaluation Report, Appendix D	Figure 2
Wetland Quality files ¹	PLP, Appendix G, Terrestrial Resources, Attachment 1	Wetland Map set

1 – A shapefile for Lake Harris Wetlands was filed on June 29, 2021; however, the file did not include the attribute data with the wetland quality ratings as displayed in the wetland map set in Appendix G of the PLP. Please ensure this information is included.

Alabama Power Response:

Due to the large number and size of these files, Alabama Power is filing these GIS data layers in a separate filing concurrent with the Final License Application.

Protection, Mitigation, and Enhancement (PM&E) Measures

4. Section 3.7, *Existing PM&E Measures*, of the PLP includes table 3-1 which summarizes the PM&E measures implemented at the project during the current license term. Alabama Power's proposed PM&Es are summarized in tables 5-2, 6-5, 7-4, 8-9, 9-4, 10-8, 11-7, 12-1, and 13-1. Some of the descriptions of the existing and proposed PM&E measures are abbreviated to the extent that they are unclear, are inconsistently described in the tables, and/or lack citations to the referenced agreements, plans, programs, policies, and other documents. For example, in the third row of table 3-1, it states "Operate the reservoir for flood control in accordance with the agreement between [the Corps] and Alabama Power," but it doesn't cite to the "agreement" that is referenced. As another example, the seventh row of table 3-1 states "Perform vector control, as necessary," but, it is unclear what "vectors" are controlled, what criteria would trigger the use of control measures, and the types of monitoring and control methods that are used. To facilitate review of the existing and proposed PM&Es in the license application, please update the PM&E tables to include: (1) a repeated header row; (2) a more detailed description of each PM&E that is consistent across all the PM&E tables; and (3) citations to documents (e.g., existing programs, plans, agreements) that are referenced in the PM&Es.

Alabama Power Response:

Alabama Power has modified the Existing and Proposed PME Tables and included, where applicable, in-text citations to documents and also included the full citation in the reference section. Each resource section includes the proposed PME measures that may affect the applicable resource.

5. Section 5.4, *Proposed Environmental Measures*, of the PLP includes table 5-2, which presents Alabama Power's list of proposed operational and PM&E measures. The list of measures includes monitoring plans that it appears would be developed post-licensing, including the Project Operations and Flow Monitoring Plan, Water Quality Monitoring Plan, and Aquatic Resources Monitoring Plan. To ensure that Commission staff has sufficient information to inform an economic and environmental analysis for each of these plans, please include with the license application the conceptual elements and cost estimates for the plans as described below:

a. Project Operation and Flow Monitoring Plan-

Alabama Power proposes to develop and implement a Project Operation and Flow Monitoring Plan that would monitor compliance with: (1) project operation and water level management; (2) flood control operation; (3) drought management; and (4) flow releases from Harris Dam. The conceptual plan should include: (1) the goals of the monitoring; (2) the variables to be monitored and the anticipated methods for monitoring project operation and flow; (3) general locations of monitoring sites; (4) provisions for reporting results and making recommendations; (5) monitoring and reporting frequency; (6) a schedule for developing and implementing the plan; and (7) estimated capital and annual costs associated with the plan.

b. Water Quality Monitoring Plan-

Alabama Power proposes to develop and implement a Water Quality Management Plan to monitor compliance with its water quality requirements. The conceptual plan should include: (1) the goals of the monitoring; (2) anticipated water quality parameters to be monitored and methods for monitoring those parameters; (3) the number and general locations of monitoring sites; (4) provisions for reporting results and making recommendations; (5) monitoring and reporting frequency; (6) a schedule for developing and implementing the plan; and (7) estimated capital and annual costs associated with the plan.

c. Aquatic Resources Monitoring Plan-

Alabama Power proposes to develop and implement an Aquatic Resources Monitoring Plan following implementation of a continuous minimum flow from Harris Dam. The conceptual plan should include: (1) the goals of the monitoring; (2) preliminary criteria for determining the success of

the program (e.g., water temperature target[s]), growth rate and/or condition target[s], water level fluctuation target[s], etc.); (3) anticipated methods for monitoring aquatic resources; (4) the number and general locations of monitoring sites; (5) provisions for reporting results and making recommendations; (6) monitoring and reporting frequency; (7) a schedule for developing and implementing the plan; and (8) estimated capital and annual costs associated with the plan.

Alabama Power Response:

Alabama Power developed draft conceptual plans (Project Operation and Flow Monitoring Plan; Water Quality Monitoring Plan; Aquatic Resources Monitoring Plan; and an Erosion Monitoring Plan). These plans are included with the Final License Application.

6. Section 5.4, *Proposed Environmental Measures*, table 5-2, also presents proposed plans for operational, maintenance, and facility-based PM&E measures, including a Recreation Plan, Nuisance Aquatic Vegetation and Vector Control Program, and Shoreline Management Plan. Section 5.18(b)(5)(iii)(B) of the Commission's regulations requires that the final license application describe all "operation and maintenance procedures for any existing or proposed measures or facilities." As described in section 5.16(b)(2) of the Commission's regulations, this requirement includes PM&E measures with respect to each resource affected by the project. To ensure that the license application includes all of the proposed PM&E measures for review by staff and stakeholders, please include with the license application the draft plans and overall estimated cost as described below.

a. Recreation Plan-

According to table 5-2 in section 5.4, *Proposed Environmental Measures*, table 11-7, *Proposed Operations and PME Measures That May Affect Recreation and Land Use*, and section 11.2.2, *Lake Harris – Recreation Plan*, of the PLP, the Recreation Plan would include provisions to:

(1) continue to operate and maintain 11 project recreation sites; (2) remove Wedowee Marine South as a project recreation site and request approval to identify the entire facility as a non-project use; (3) install and maintain recreation (canoe/kayak) access below Harris Dam within the project boundary; (4) provide an additional recreation site on Lake Harris to include a day use park (with swimming, picnicking, and boat ramp); (5) implement a Barrier-Free Evaluation Program at existing recreation sites; and (6) provide an update for the Recreation Plan every 10 years. The draft plan also should include: (1) the methods for operating and maintaining the project recreation sites; (2) a description and map of the proposed new canoe/kayak recreation access below Harris Dam, the existing environment at the site, and the potential effects of construction, operation, and maintenance of the new site on environmental resources; (3) a description and map of the proposed new recreation site (day use park), the existing environment at the site, and the potential effects of construction, operation, and maintenance of the new site on environmental resources, (4) a description of the proposed Barrier-Free Evaluation Program or a draft of the program; (5) a description of the information to be included in each 10-year Recreation Plan update; (6) criteria for determining the success of the plan; (7) monitoring protocols and sampling methodologies, including the frequency of monitoring/sampling recreation use; (8) provisions for reporting recommendations on the plan; (9) a schedule for finalizing and implementing the plan; and (10) estimated capital and annual costs associated with the plan.

b. Nuisance Aquatic Vegetation and Vector Control Program-

According to Section 11.2.2, *Lake Harris – Nuisance Aquatic Vegetation and Vector Control Program*, of the PLP, the Nuisance Aquatic Vegetation and Vector Control Program would include the following provisions: (1) the frequency, timing, and locations, of surveys to identify areas where nuisance aquatic vegetation could create a public health hazard, affect power generation facilities, restrict recreational use, or pose a threat to the ecological balance of Lake Harris; (2) methods for monitoring for increases in nuisance aquatic vegetation; (3) methods for controlling nuisance aquatic vegetation and vectors; and (4) a schedule for monitoring. The draft plan should also include (1) a description of the species of aquatic vegetation that would be monitored; (2) the criteria for determining success of the plan, (3) a schedule for finalizing and implementing the plan, and (4) estimated capital and annual costs associated with the plan.

c. Shoreline Management Plan-

On October 5, 2020, a draft Shoreline Management Plan (SMP) was provided to stakeholders who are members of the Harris Action Team 4, a group of stakeholders interested in participating in Recreation and Land Use relicensing issues. Stakeholders provided Alabama Power with initial comments on the draft SMP in November of 2020. Commission staff requested that the SMP be filed with the PLP in comments on the updated study report issued on June 9, 2021. A revised draft SMP was not filed with the PLP. In table 11-7 of the PLP, it states that Alabama Power proposes to develop and implement an SMP that would include provisions to: (1) incorporate proposed changes in land use classifications (including reclassifying the botanical area at Flat Rock Park from recreation to natural/undeveloped); (2) continue to encourage the use of alternative bank stabilization techniques other than seawalls; (3) continue implementing the Dredge Permit Program; (4) continue implementing the Water Withdrawal Policy; (5) continue implementing a shoreline classification system to guide management and permitting activities; (6) continue the requirements of a scenic easement for the purpose of protecting scenic and environmental values; (7) continue the use of a "sensitive resources" designation in conjunction with shoreline classifications on project lands managed for the protection and enhancement of cultural resources, wetlands, and threatened and endangered species; (8) continue implementing a shoreline compliance program and shoreline permitting program; and (9) continue to encourage the adoption of shoreline best management practices (BMPs), including BMPs

to maintain and preserve naturally vegetated shorelines, to preserve and improve the water quality of the project reservoir, and to control soil erosion and sedimentation.

Please ensure that the draft SMP also includes drafts of the proposed Dredge Permit Program, Water Withdrawal Policy, shoreline permitting and compliance programs, and the specific recommended BMPs to protect shoreline vegetation and water quality and to prevent erosion and sedimentation. In addition, please ensure that the SMP identifies recreation and other activities that would be permitted/allowed in areas classified as natural/undeveloped and any areas that are classified as "sensitive." As examples, please describe the land use categories and/or specific areas where camping and all-terrain vehicle (ATV) use would be allowed within the project boundary. Finally, please include (1) a schedule for finalizing and implementing the SMP; and (2) estimated capital and annual costs associated with the plan.

Alabama Power Response:

Alabama Power included the Recreation Plan, Nuisance Aquatic Vegetation and Vector Control Plan, and the Shoreline Management Plan with the Final License Application. Note that a description of the existing environment, and the potential effects of construction, operation and maintenance of the new canoe/kayak recreation access and new recreation site (day use park) is included in Exhibit E, not the draft Recreation Plan. Also, the schedule for finalizing the Recreation Plan, as well as capital and annual costs associated with its implementation are included in Exhibit E.

Project Description and Operation

7. Section 2.1, *Harris Project Facilities*, of the PLP, indicates that the intake structure at the Harris Project includes six intake gates that are protected with trash racks. However, section 2.1 does not include a detailed description of the trash racks, including (a) the total number of trash racks and the dimensions of those racks; (b) the trash racks' clear bar spacing; (c) the intake approach velocity; and (d) the through-rack velocity. This information, which is required by sections 4.51(b)(1) and 5.18(a)(5)(iii) of the Commission's regulations, is necessary to evaluate the potential for fish entrainment at the project, and, therefore, should be included in the license application.

Alabama Power Response:

Alabama Power included a description of the trash racks in Exhibit A and also included information on the trash racks in Exhibit E relative to turbine entrainment and mortality.

8. In section 6.1.3, *Tallapoosa River Downstream of Harris Dam*, of the PLP, figure 6-5 appears to have incorrect River Mile (RM) labeling. There is no RM 1 or RM 0 labeled in the figure. If RM 0 is at Harris Dam, then the downstream RM sites should be relabeled. If RM 1 is at Harris Dam, this should be noted in the license application.

Alabama Power Response:

This figure has been corrected and is provided in Exhibit E, Geology and Soils of the Final License Application.

9. In section 7.1.2.2, *Water Quantity*, of the PLP, the maximum and mean depths of the reservoir are stated as 121 feet and 110 feet, respectively. If the 425,721 acre-feet gross storage volume is divided by the 9,870-acre surface area, the resulting average depth is approximately 43 feet. In the license application, please include an explanation of this calculation or revise these depth values as appropriate.

Alabama Power Response:

A response has been added to the Lake Harris Water Quantity section of Exhibit E.

10. Section 12.1.3, *Tallapoosa River Downstream of Harris Dam*, of the PLP, states “There are four dams along the Tallapoosa River with Harris Dam the most downstream.” However, as shown in the figures in the PLP, Harris Dam is the most *upstream* dam on the Tallapoosa River. Please ensure that the locations of the dams on the Tallapoosa River are accurately described in the license application.

Alabama Power Response:

“Upstream” was added the text to replace the incorrect, “downstream”.

Model Results

11. Section 6.2.2, *Lake Harris - Continuous Minimum Flow*, of the PLP, states that the 150-cubic feet per second (cfs) and 300-cfs continuous minimum flows would not affect summer or winter pool elevations. However, figure 7-6, which is at a scale that does not allow for clear distinction among the alternatives, suggests that these minimum flows would result in reservoir elevations that vary from the Green Plan (baseline) condition. In the license application, please clarify how increasing the continuous minimum flow from 45 cfs to 150 cfs or 300 cfs would not lower the reservoir at all. If there's a nominal reduction in reservoir elevations, it should be stated and described as "negligible" or "minimal."

Alabama Power Response:

The statement in Section 6.2.2 is "the proposed minimum flow does not affect summer or winter pool elevations". Figure 7-6 is "Average Reservoir Elevations" of GP, 150 CMF, and 300 CMF. Based on the HEC-ResSim Model of the downstream release alternatives, the largest negative effect to reservoir levels between baseline and 150CMF and 300 CMF is .06 feet and .13 feet, respectively, occurring in October. Because there is enough inflow into Harris reservoir, the system is able to provide these two alternatives without affecting reservoir levels.

12. Section 8.2.2, *Lake Harris – Continuous Minimum Flow*, of the PLP, states that the same volume of water would continue to be passed under the proposed continuous minimum flow operations as compared to Green Plan (baseline) operations. The PLP does not indicate if the current 45-cfs continuous minimum flow is used for generation or spilled. If it is currently spilled, the volume used for generation under the proposed alternatives could be slightly higher. In the license application, please explain how the current 45-cfs minimum flow is released.

Alabama Power Response:

A description of how the 45 cfs flow is met is provided in the Existing Operations Section of the Exhibit E.

13. In section 5.2, *Alternatives Considered but Eliminated*, of the PLP, table 5-1 shows that the 300-cfs continuous minimum flow + Green Plan alternative results in reservoir elevations 4 feet lower than with the Green Plan (baseline) from April through October. In addition, according to table 5-1, the 600-cfs continuous minimum flow + Green Plan alternative results in reservoir elevations 2 feet lower than Green Plan (baseline) for May and June, increasing to approximately 4 feet lower during September. The 800-cfs continuous minimum flow + Green Plan alternative results in reservoir elevations 4 feet lower than Green Plan (baseline) for May and June, increasing to approximately 12 feet lower during September. In the license application, please explain how the 600-cfs continuous minimum flow + Green Plan alternative releases more water and yet results in higher reservoir elevations than the 300-cfs continuous minimum flow + Green Plan alternative.

Alabama Power Response:

The reference made to reservoir elevations “4 feet lower than with the Green Plan (baseline) from April through October” under the 300CMF+GP alternative concerns **minimum** elevations over the period of record (see Figure 3-6 of Downstream Release Alternatives Phase 2 Report). The reference made to elevations “2 feet lower than Green Plan (baseline) for May and June, increasing to approximately 4 feet lower during September” under the 600CMF+GP alternative concerns **average** elevations over the period of record (see Figure 3-2 of Downstream Release Alternatives Phase 2 Report). When comparing **average** elevations under the 300CMF+GP to baseline, the 300CMF+GP results in **average** reservoir elevations approximately 0.5 feet lower than GP from May through October (or approximately one foot higher than 600CMF+GP in May and June and almost four feet higher than 600CMF+GP at the beginning of October).

14. In tables 8-10, 8-11 and 8-12, displaying the release alternative comparison tables in the PLP, please provide the time range for the data that was used for the Hydrologic Engineering Center's River Analysis System (HEC-RAS) model simulations. For example, is this information based on the 2001 "average" year, 1939 to 2011, or other time range? Also, the term "water year" is used intermittently throughout the relicensing documents. In the license application, please ensure that all data tables based on the HEC-RAS model output state the time ranges for the data that were used, such as "calendar year 2001" (i.e., January 1 to December 31), "water year" (i.e., October to September 30), or something similar, to facilitate review and analysis of the data.

In addition, in table 8-12, *Results of HEC-RAS Water Temperature Modeling Simulations for Downstream Release Alternatives*, it appears that the temperature data are provided in degrees Celsius, but the unit of measurement is not included. In the license application, please ensure that the units of all measurements in the tables and figures are labeled and consistent with the discussions to facilitate review and analysis of the data.

Alabama Power Response:

A note on the time range associated with data used for the HEC-RAS model simulations has been included in Exhibit E. A full description of the HEC-RAS model methodology is provided in the Final Downstream Release Alternatives Phase 1 Study Report. Also, degrees Celsius was added the tables, as needed, in Exhibit E.

15. In table 11-12, *Number of Boatable Days in the Tallapoosa River Below Harris Dam by Season*, of the PLP, a “boatable day” is defined as one in which the flow at the USGS Wadley gage does not drop below 450 cfs or rise above 2,000 cfs between sunrise and sunset. The PLP indicates that the majority of boaters on the river find the water levels acceptable at flows between 499 cfs and 6,110 cfs. In the license application, please discuss the origin and rationale for defining a boatable day using the 450-cfs and 2,000-cfs values.

Alabama Power Response:

The information on the origin and rationale for defining a boatable day is provided in the Environmental Analysis of the Recreation Section of Exhibit E of the Final License Application.

16. In section 4.3.3 of the Final Downstream Release Alternative (Phase 1) Study Report, it states that "The 150-cfs continuous minimum flow scenario was created by amending the Pre-Green Plan scenario such that no hourly interval had less than a 150 cfs discharge from Harris Dam." In the license application, please clarify whether this was done by changing the rules in the Hydrologic Engineering Center's Reservoir Simulation (HEC-ResSim) model to re-allocate the water, or by simply revising the HEC-RAS upstream hydrograph to increase the inflows less than 150 cfs to 150 cfs.

Alabama Power Response:

Alabama Power revised the HEC-RAS upstream hydrograph to increase the inflows less than 150 cfs to 150 cfs.

17. Section 4.3.3 of the Final Downstream Release Alternatives (Phase 1) Study Report states that 2001 was selected as a “normal” water year as inflows to the Harris Project were closest to the median. In the license application, please clarify whether any of the alternatives were analyzed using a “wet” year or a “dry” year, and if there were any significant floods or droughts during 2001 that would not be representative of a “normal” water year.

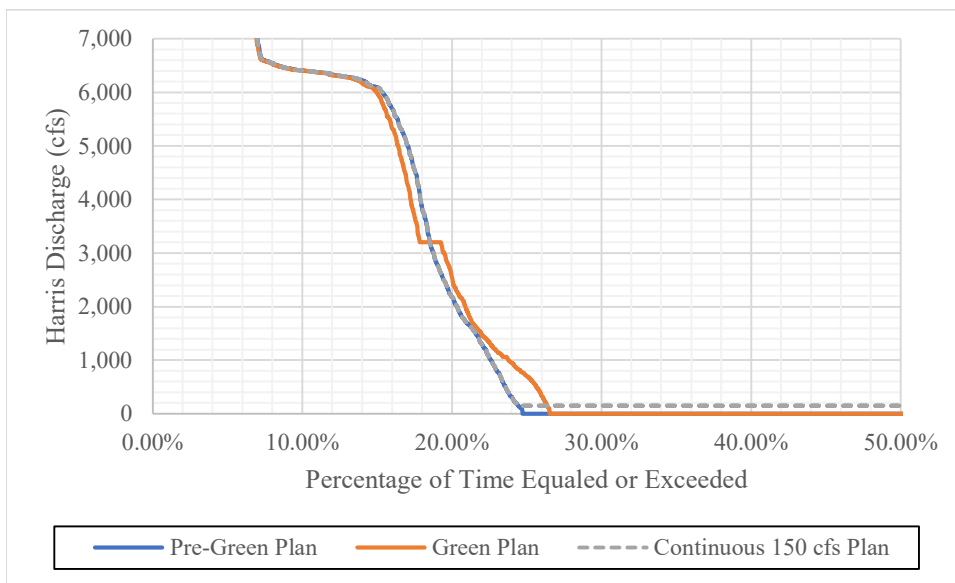
Alabama Power Response:

Hydrologic data from the calendar year 2001 was the only data used to model the downstream release alternatives. Alternatives were not analyzed using a “wet” or “dry” year. No significant floods or droughts occurred during 2001.

18. Figures 4-4 through 4-7 in the Final Downstream Release Alternatives (Phase 1) Study Report show releases from Harris Dam during the four seasons. There is considerable overlapping of the data series in these figures, making them difficult to interpret. In the license application, please provide the flow duration curves with the 3 data series on one chart, to highlight differences between the alternatives.

Alabama Power Response:

A chart showing the flow duration data for 2001 comparing Pre-Green, Green, and Continuous 150 cfs plans has been generated. The chart has been focused on percent exceedances 0 to 50% to highlight the differences. Showing the full flow duration data, both flow and percentages, makes observing the differences challenging.



19. In Section 2.1.1.1 of the Final Downstream Release Alternatives (Phase 1) Study Report, tables 4-8 through 4-11 show that that the intervening peak flows at Wadley are greater than the intervening peak flows at Horseshoe Bend even though the drainage area for the 14-mile section of the Wadley reach (Harris Dam to Wadley) is less than the drainage area for the 29-mile section of the Horseshoe Bend reach (Wadley to Horseshoe Bend). Please clarify why the intervening peak flows at Wadley are greater even though the flow in this reach originates from a smaller drainage area than Horseshoe Bend.

Alabama Power Response:

As noted in Section 4.3.3, the intervening flows at the Wadley gage were obtained by subtracting the Pre-Green Plan flows from Harris Dam from the discharge measured at the Wadley gage using a 3-hour lag time to account for the travel time from Harris Dam to the Wadley gage (i.e., each Wadley hourly flow ordinate had discharge from Harris 3 hours earlier subtracted). A comparison of historical data for the two gages shows that the peak daily flows at Wadley are typically higher than they are at Horseshoe Bend. However, the typical baseflow at Horseshoe Bend is higher than it is at Wadley due to the larger drainage area between Wadley and Horseshoe Bend than Harris Dam and Wadley. Due to the attenuation of the peak daily flows from Harris Dam, subtracting lagged hourly Harris discharge ordinates from the Wadley data may result in some overestimation of the intervening flows at Wadley, as the hydrograph exiting Harris is stretched over time as it travels to Wadley. However, the intervening flows are consistent for all downstream alternatives evaluated, thus, any effect of additional flow is consistent for all of the model results.

20. Section 4.3.4 in the Final Downstream Release Alternatives (Phase 1) Study Report states that a constant stage hydrograph at elevation 490.5 feet was used for the downstream boundary condition at the upstream end of Martin Reservoir. In the license application, given that the elevation of Martin Reservoir fluctuates throughout the year, please justify the assumption of a constant stage hydrograph, or revise the model to use a variable stage hydrograph for the HEC-RAS downstream boundary condition.

Alabama Power Response:

Using GIS, bathymetry, and water level logger data, it was determined that the Martin pool ceased to have any influence upstream past Irwin Shoals, which is located about 4 river miles downstream of Horseshoe Bend, where the study scope ended.

Developmental Resources

21. Table 5-2 in section 5.4, *Proposed Environmental Measures*, of the PLP includes Alabama Power's proposal to "design, install, operate, and maintain a minimum flow unit to provide a continuous minimum flow between 150 [cfs] and 300 cfs in the Tallapoosa River downstream from Harris Dam." In addition, section 8.2.2, *Environmental Analysis – Lake Harris*, of the PLP, states that "any assessment of potential changes in turbine-induced mortality would have to be performed after design specifications of any minimum flow unit are finalized." Section 5.18(a)(5)(iii) of the Commission's regulations require that all proposed project facilities, operations, and proposed measures be described. Therefore, for staff to evaluate the proposed effects of installing a minimum flow unit at the Harris Project, the license application should include a detailed description of the minimum flow turbine to be installed at the project (e.g., type, hydraulic capacity, net head, number of runners, operating speed in revolutions per minute, runner diameter, number of blades per runner, runner diameter, blade spacing, and peripheral runner velocity in feet per second).

Alabama Power Response:

The details of the propose minimum flow unit, as available based on preliminary design, are provided in Exhibit A of the Final License Application. Please note that the specifications/dimensions of the proposed minimum flow unit are based on a preliminary design and may be modified as needed in the final design phase.

22. Section 2.1, *Harris Project Facilities*, of the PLP states that the maximum discharge capability for each existing turbine is 8,000 cfs. Given stakeholder concerns regarding peaking operations and the associated downstream effects, please ensure that the license application (Exhibits A and/or B) include: (a) the minimum discharge for each unit; (b) discharge (cfs) versus output (kW or MW) curves for each unit; (c) any physical, electrical, mechanical, or other limitations that may restrict unit operations across the range of minimum to maximum flows; and (d) unit efficiency curves over the operating range of hydraulic head and flows.

Alabama Power Response:

- a) The minimum discharge for each unit is provided in Exhibit B.
- b) The discharge (cfs) versus output (kW or MW) curve (which is the same for both units) is provided in Exhibit B. Note that it is filed as Privileged as this information is used in Alabama Power's proprietary HydroBudget model.
- c) The physical limitation that restricts operations below best gate is in Exhibit B.
- d) Unit efficiency curves over the operating range of hydraulic head and flows are provided in Exhibit B.

23. The Draft Downstream Release Alternative (Phase 2) Study Report includes figures 3-11 and 3-12, which provide average annual energy and average annual revenue curves, respectively, for the Harris Project, and figures 3-13 and 3-14 provide similar information for Alabama Power's hydro system (the Harris Project and other hydroelectric facilities located downstream). In the license application and in accompanying tables in the Final Downstream Release Alternative (Phase 2) Study Report, please also provide the actual values shown in these figures to facilitate stakeholder review and analysis of the actual values from the graphs.

Alabama Power Response:

The values have been added to figures 3-11 through 3-14 of the final Downstream Release Alternatives Phase 2 Report. Alabama Power notes that figures 3-13 and 3-14 are for its entire hydroelectric system and not just the facilities located downstream of Harris Dam.

24. Table 4-1 in the Draft Operating Curve Change (Phase 2) Study Report provides estimates of the average annual revenue losses across Alabama Power's hydro fleet associated with each reservoir level alternative. The Draft Downstream Release (Phase 2) Study Report, in figures 3-11 through 3-13, provides generation and revenue losses for Harris and Alabama Power's hydro fleet for each flow release alternative. In the final study reports, please summarize the total project generation and the losses in generation and revenue at Harris, as well as the losses in generation for Alabama Power's hydro fleet for each alternative. In addition, in the figure and table titles, please clarify that the information provided represents the change in generation (i.e., losses or gains) and revenue.

Alabama Power Response:

Table 4-1 of the Operating Curve Change Feasibility Analysis Phase 2 Report reiterates the information on average annual impact to Alabama Power's total hydroelectric generation (across its entire fleet) provided in the Operating Curve Change Feasibility Analysis Phase 1 Report. It is included in the Phase 2 Report in order to provide a complete summary of the effects of a potential change in the winter operating curve. However, Alabama Power has added the values for generation effects across its entire fleet and for generation and revenue effects specific to Harris Dam to Table 4-1 of the final Operating Curve Change Feasibility Analysis Phase 2 Report and clarified the information presented.

25. In comments on the PLP, some stakeholders have requested starting the summer pool elevation (i.e., 793 feet) earlier in the spring and/or extending the summer pool elevation into October or November. During scoping, extended summer pool alternatives were not considered and were not studied. To facilitate review and analysis of stakeholder-recommended summer pool scenarios, please provide a qualitative discussion of the following alternatives: (1) modify the operating curve to maintain the summer pool elevation of 793 feet from March 1 through October 31 (7 months) with adjusted winter pool elevation between January 1 and February 28 (2 months) at: (a) 785 feet; (b) 786 feet; (c) 787 feet; (d) 788 feet; and (e) 789 feet; and (2) modify the operating curve to maintain the summer pool elevation of 793 feet from April 1 through October 31 (6 months) with adjusted winter pool elevation between January and March 31 (3 months) at: (a) 785 feet; (b) 786 feet; (c) 787 feet; (d) 788 feet; and (e) 789 feet. Please address the various effects of these alternatives on the following resource areas: (1) structures downstream of Harris Dam; (2) water quality; (3) water use; (4) erosion and sedimentation; (5) aquatic resources; (6) wildlife and threatened and endangered species; (7) terrestrial wetlands; (8) recreation; and (9) cultural resources. Please incorporate all of this information into a revised Draft Operating Curve Change Feasibility Analysis (Phase 2) Report appended to the license application.

Alabama Power Response:

Appendix G of the *Final Operating Curve Change Feasibility Analysis Phase 2 Report* contains this analysis.

Geology and Soil Resources

26. Table 3-4 in section 3.4.2, *Results*, and table 6-6 in section 6.2.3, *Environmental Analysis - Tallapoosa River Downstream of Harris Dam*, of the PLP present the daily average water surface elevation fluctuations (in feet) in the Tallapoosa River downstream from Harris Dam for three operational alternatives: Green Plan; 150-cfs continuous minimum flow; and 300-cfs continuous minimum flow. As highlighted in the table below, the values for sites 4, 14, and 43 river miles downstream from Harris Dam do not follow the pattern shown by the values for the other sites. Please review these numbers and correct them if necessary, or explain the anomalies, in notes to the table. For example, do they represent riffle areas that present a hydraulic control? Is the downstream site influenced by the operation of Lake Martin?

Alternative	MILES BELOW HARRIS DAM										
	0.4	1	2	4	7	10	14	19	23	38	43
Green Plan (Baseline)	4.62	4.24	3.99	4.22	3.20	2.56	3.60	3.01	2.01	0.92	1.79
150-cfs Continuous Minimum Flow	4.10	3.94	3.81	4.07	3.15	2.56	3.63	3.02	2.01	0.93	1.80
300-cfs Continuous Minimum Flow	3.59	3.51	3.44	3.72	2.96	2.34	3.54	2.99	1.99	0.92	1.74

Table 3-4. Source: Alabama Power and Kleinschmidt 2021b.

Alabama Power Response:

Alabama Power reviewed the numbers in the table and provided an explanation of these values in the Geology and Soils, Environmental Analysis Section, of Exhibit E of the Final License Application.

27. The Draft Downstream Release Alternatives (Phase 2) Study Report includes limited channel cross section plots, specifically for 0.4, 0.6, 0.8, 1, 1.5, 2, 3, 4.4, and 6 miles downstream of Harris Dam, respectively. However, section 4.3.1 of the Final Downstream Release Alternatives (Phase 1) Report stated that the final geometry used for the study included 436 bathymetric cross sections between River Mile (RM) 136.7 at Harris Dam and RM 88 which is the limit of headwaters of the Martin Dam impoundment (Lake Martin). To facilitate the review and analysis of the full 44-mile study reach of the Tallapoosa River from Harris Dam downstream to Horseshoe Bend, please include the full set of plots of from all of the cross sections that were collected as part of study with the license application.

Alabama Power Response:

The information on all cross sections was provided to FERC as part of the transmittal of the modeling files.²

² Accession Number 20210629-5073

28. Sections 6.1.1 and 6.1.2, *Geology and Soils*, and Appendix D of the PLP provide geology and soil information for the Skyline Wildlife Management Area and the Lake Harris portions of the project area respectively. The heading of section 6.1.3 of the PLP suggests that it includes similar information about the affected environment along the Tallapoosa River downstream of Harris Dam. However, the section only includes a statement that the general characterization for the Lake Harris area in section 6.1.2 is the same as for the river downstream of the dam. Environmental conditions affecting soils downstream from Harris Dam are different from conditions on Harris Lake, and stakeholders with land along the Tallapoosa River have expressed concerns about downstream flooding and erosion. To facilitate review and analysis of the potential effects of proposed project operation and maintenance, in the license application, please provide information comparable in terms of content, level of detail, and accompanying figures and tables of the physiography and soils present in the downstream reach to what is provided in sections 6.1.1 and 6.1.2 and Appendix D for the 44-mile reach downstream of Harris Dam.

Alabama Power Response:

Soils and geology resource information for the Tallapoosa River downstream of the Harris Dam is provided in the Geology and Soils Section of Exhibit E of the Final License Application.

Water Resources

29. Table 7-2, in section 7.1.2.1, *Lake Harris – Water Quality*, and table 7-3, in section 7.1.3.1, *Tallapoosa River Downstream of Harris dam – Water Quality*, of the PLP provides a summary of the water quality data sources for Lake Harris the Tallapoosa River, including the Alabama DEM 2018 – 2020 water quality data. In a letter filed with the Commission on June 11, 2021, Alabama DEM indicates that it has collected data on Lake Harris for over two decades. In addition, the Baseline Water Quality Report presents a summary of the water quality data collected by Alabama DEM for Lake Harris and the Tallapoosa River dating back to 2005. Based on the information in the PLP, as well as the Water Quality and Downstream Aquatic Resources Study Reports, there is no indication of what, if any, of Alabama DEM's older data were used in the EFDC model (water quality model), the HEC-ResSim and HEC-RAS models, and the Bioenergetics model developed by Auburn University. Please describe the modeling done to support the relicensing studies in Exhibit E of the license application, including identifying the sources and dates (i.e., years) for the data used in each of the models.

Alabama Power Response:

1. Bathymetry data - Bathymetry data used in the Lake Harris EFDC model was provided by Alabama Power Company.
2. Meteorological data - The primary station used in the EFDC model to describe atmospheric forcing was the Thomas C Russell Field Airport, as shown in Table 1. The data sets from Anniston Metropolitan Airport, West Georgia Regional Airport, and Lagrange Callaway Airport were used to fill in missing data gaps from the records obtained for the Thomas C Russell Field Airport station.

Table 1 Meteorological Stations Used in the EFDC Model

Station Name	Station ID	Agency	Latitude (N)	Longitude (W)	Date Range
THOMAS C RUSSELL FLD ARPT	WBAN 63833	NOAA	32.915	-85.963	1/1/2014 – 12/31/2019

3. Flow boundary data

The eleven (11) flow boundaries were developed based on the flow records from two USGS stations, as shown in Table 2.

Table 2 USGS Gauge Stations Used in the EFDC Model

Station Name	Station ID	Agency	Latitude (N)	Longitude (W)	Date Range
Tallapoosa River near Heflin, AL	02412000	USGS	33.623	-85.513	1/1/2014 – 12/31/2019
Little Tallapoosa River near Newell, AL	02413300	USGS	33.633	-85.150	1/1/2014 – 12/31/2019

4. Water temperature boundary data

Water temperature boundary data used in the EFDC model was obtained from two USGS gauge stations: USGS02412000 and USGS02413300, as shown in Table 3. However, the water temperature data at these two stations is only available from December 5, 2017 to present. The water temperature data before December 5, 2017 at these two stations was estimated based on the water temperature data at USGS gauge 02337410 (Dog River at GA 5 near Fairplay, GA).

Table 3 Water Temperature Stations Used in the EFDC Model

Station Name	Station ID	Agency	Latitude (N)	Longitude (W)	Date Range
Tallapoosa River near Heflin, AL	02412000	USGS	33.623	-85.513	12/5/2017 – 12/31/2019
Little Tallapoosa River near Newell, AL	02413300	USGS	33.633	-85.150	12/5/2017 – 12/31/2019

30. In a June 29, 2009 response to public comments for the State Triennial Review of Water Quality Standards, Alabama DEM clarified the hydroelectric generation portion of the state water quality standards at 335-6-10-.09 regarding hydroelectric impoundments. During periods when there is no discharge from the impoundment, the applicable dissolved oxygen (DO) criterion is 5.0 mg/L in waters with the Public Water Supply and Fish and Wildlife designated uses. The applicable DO criterion during periods when the impoundment is discharging is 4.0 mg/L. Section 7.1.3 of the PLP, *Tallapoosa River Downstream of Harris Dam*, indicates "dissolved oxygen levels were above 5 mg/L for a majority of the monitoring period, with less than 1 percent of all measurements falling below 5 mg/L." While this provides an assessment of the DO conditions downstream of the Harris Project, DO is a parameter that has direct and acute effects on aquatic life. Therefore, to facilitate a complete water quality analysis, Commission staff needs information on instantaneous DO conditions. In the license application, please specify how many days/hours per month from 2017 to 2020 DO values fell below 5.0 mg/L during periods of non-generation and below 4.0 mg/L during periods of generation. Please include measurements taken at the downstream MARE-12 and Malone monitoring locations.

Alabama Power Response:

The applicable dissolved oxygen standard for discharges from Harris Dam is 5 mg/L. The Water Quality Report has been revised to include analyses of the amount of time dissolved oxygen was less than 5 mg/L during the study monitoring period at Alabama Power's tailrace and downstream (continuous) monitoring stations. This analysis is also provided for available data from ADEM's continuous monitoring station at Malone. There were no instances when dissolved oxygen measurements were less than 5 mg/L at ADEM's MARE-12 station.

31. In section 7.2.2.2 of the PLP, *Water Quantity*, figure 7-6 presents average elevations of Harris Lake based on the HEC-ResSim model of downstream release alternatives. The difference in reservoir elevations between the Green Plan and the 300-cfs continuous minimum flow appears to be about 0.1 foot. In the license application, please provide the maximum difference in elevations between these two alternatives during the summer and winter seasons. If the difference is less than 0.1 foot, then indicate so in the discussion of potential effects of proposed project operation on water quantity.

Alabama Power Response:

Based on the HEC-ResSim model, the maximum difference in average elevations of Harris Reservoir between the Green Plan (baseline) and the 300 cfs continuous minimum flow during the summer (May through September) is 0.09 ft (300 cfs is 0.09 ft lower than Green Plan (baseline)). The maximum difference in average elevations of Harris Reservoir between the Green Plan (baseline) and the 300 cfs continuous minimum flow during the winter (October through April) is 0.13 ft (300 cfs is 0.13 ft lower than Green Plan).

32. Section 4.1.1 of the Final Downstream Release (Phase 1) Study Report, states "Records at some gage sites only contained average daily flows. Hourly flows were interpolated at these sites by combining the average daily flows with the estimated instantaneous peak values." In the license application, please explain this method of calculation in greater detail and provide one month's worth of average daily flows from the summer of 2007, with the corresponding hourly "interpolated" flows, for comparison.

Alabama Power Response:

This statement was included in anticipation of using hourly flows in the HEC-ResSim model to determine "short term" (i.e., sub-daily) effects of the downstream release alternatives on the environmental resources analyzed in the *Final Downstream Release Alternatives Phase 2 Study Report* . However, the HEC-ResSim model was only used to determine effects on a daily time-step on the operating curve at the Harris Reservoir (e.g., Harris Reservoir elevations, flood control operations, navigation, and drought). Short-term effects on the environmental resources analyzed in the *Final Downstream Release Alternatives Phase 2 Study Report* were determined from the HEC-RAS model using hourly flows based on the year 2001, where applicable. Since we didn't use interpolated hourly flows, there is no need to provide the one month's worth of average daily flows from summer 2007, as requested.

33. The Draft Downstream Release (Phase 2) Study Report includes figures 3-1 and 3- 2, which display the estimated effects of each operating alternative on reservoir elevations. These graphs indicate that the Pre-Green Plan, 150-cfs continuous minimum flow, and 300-cfs continuous minimum flow alternatives have negligible effects on average reservoir elevations and the 300-cfs continuous minimum flow + Green Plan, 600-cfs continuous minimum flow, and 800-cfs continuous minimum flow begin to lower reservoir levels. In comments on the PLP, some stakeholders have requested that Alabama Power identify the level of continuous minimum flow (with or without Green Plan pulsing) that initially affects reservoir levels (i.e., what continuous minimum flow between 300 cfs and 600 cfs would lead to a more than negligible impact on reservoir elevations). To facilitate review and analysis of the water management issues at the project, in the license application, please identify what continuous minimum flow would begin to affect Harris Lake levels.

Alabama Power Response:

A response to this question is provided in Section 5 of the Exhibit E of the Final License Application.

Fisheries

34. Table 5-2 indicates that Alabama Power proposes to provide fish habitat improvements by adding habitat enhancements to Harris Reservoir. Please include the details of these habitat improvements in the license application.

Alabama Power Response:

Details of the reservoir fish habitat improvements are included in Exhibit E of the Final License Application.

35. Table 8-11 in section 8.2.3, *Environmental Analysis - Tallapoosa River Downstream of Harris Dam*, of the PLP, presents a comparison of percent difference from the Green Plan in daily wetted perimeter fluctuation in the Tallapoosa River downstream from Harris Dam for three operational alternatives: Green Plan; 150 cfs continuous minimum flow; and 300 cfs continuous minimum flow. As highlighted in the table below, the values for sites 19 and 23 river miles downstream from Harris Dam do not follow the pattern shown by the values for the other sites. Please review these numbers and correct them in the license application, if necessary, or revise the table to explain the anomalies in notes to the table.

Alternative	MILES BELOW HARRIS DAM & HABITAT TYPE										
	0.4	1	2	4	7	10	14	19	23	38	43
	Riffle	Riffle	Riffle	Pool	Pool	Riffle	Run-Pool	Riffle-Run	Riffle	Riffle	Pool
Green Plan	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
150-cfs Continuous Minimum Flow	-20%	-7%	-31%	-7%	-11%	-3%	-5%	1%	1%	-3%	-2%
300-cfs Continuous Minimum Flow	-37%	-23%	-68%	-14%	-31%	-13%	-13%	0%	3%	-9%	-9%

Table 8-11. Source: Alabama Power and Kleinschmidt 2021b.

Alabama Power Response:

An explanation of values that may not fit the “pattern” are provided in the Exhibit E of the Final License Application.

36. Section 8.1.3.1, *Tallapoosa River Downstream of Harris Dam – Fish Community*, of the PLP presents a summary of the fish collected in the Tallapoosa River from 2005 through 2020, including the Alabama Cooperative Fish and Wildlife Research Unit's sampling from 2005 to 2015, Alabama Power's sampling in 2017 and 2018, and Auburn University's sampling in 2019 and 2020. The sampling protocols used varied among these sampling efforts. In Exhibit E of the license application, please: (a) discuss how the various sampling protocols may affect the sampling results (e.g., what are the implications for describing the species caught, the size and condition of fish caught, etc.); and (b) describe any consultation that occurred among Auburn University, Alabama Power, and stakeholders regarding the change from back-pack electrofishing (30+2 approach) to a barge mounted electrofishing apparatus.

Alabama Power's Response:

A discussion of sampling protocols and stakeholder consultation is provided in Exhibit E of the Final License Application.

37. Section 8.2.3, *Environmental Analysis – Tallapoosa River Downstream of Harris Dam*, of the PLP presents a brief analysis of Auburn University's Bioenergetics model and the effects of temperature reductions on spawning and growth of aquatic resources downstream from Harris Dam. Please expand this discussion in the license application to include a brief description of the Bioenergetics model and how the data used in the model were collected. Please include any adjustments made during the model's development, including in the data collection methods (e.g., switch from electromyogram telemetry tags to acoustic/radio tags) and the implications of those adjustments. In addition, please describe any consultation that occurred among Auburn University, Alabama Power, and the stakeholders regarding any of the adjustments made. Finally, please present and discuss the results for any other species, or surrogate species, that were tested.

Alabama Power Response:

A brief description of the Bioenergetics model development, including adjustments made in data collection, the implications of those adjustments and stakeholder consultation, is provided in the Fish and Aquatic Resources section of Exhibit E.

Terrestrial Resources

38. In section 9.1.2.4, *Lake Harris—Wetlands*, of the PLP, table 9-3 lists the extents (i.e., in linear feet and miles or acres), and the quality of each wetland type at Harris Reservoir (i.e., “poor”, “moderate”, and “good” condition). Table 9-3 states that some lacustrine/littoral and shoreline/alluvial wetlands were deemed to be in poor, moderate, and good condition. However, the section does not include the criteria for determining the quality of the wetlands. Please include these criteria with the license application, along with a description of any ongoing or potential project-related effects on these wetlands based on their existing qualities and the effects of current and proposed operation. In addition, please include with the license application maps showing the locations of each of the wetlands in the Harris Lake and Skyline portions of the project area with their wetland types and quality identified.

Alabama Power Response:

The criteria for the wetland condition are provided in the Wildlife and Terrestrial Resources Section in Exhibit E of the Final License Application.

39. Section 9.2, *Environmental Analysis*, of the PLP states that “FERC did not identify terrestrial and wildlife resources as an affected resource in the [Scoping Document 2] SD2...”. However, on page 25 of SD2, Commission staff identified the following terrestrial (including vegetation and wildlife) resource issues:

- Effects of the frequency, timing, amplitude, and duration of lake fluctuations and flow releases from the project on riparian, wetland, and littoral vegetation community types;
- Effects of project operation and maintenance activities (*e.g.*, road and facility maintenance) and project-related recreation on vegetation and wildlife habitat, ***including rare plant communities on granite outcrops***;
- Effects of project operation and maintenance on avian species, including avian electrocution and collision with project transmission facilities; and
- Effects of project operation and maintenance activities and project-related recreation on non-native invasive botanical and wildlife species.²

In the license application, please correct this statement and/or recognize that these terrestrial resources will be included in the Commission staff’s environmental review and discussed in the environmental document.

Alabama Power Response:

This statement was not included in Exhibit E of the Final License Application.

40. Table 3-1 of the PLP and section 3.1 of the draft Wildlife Management Plan (WMP) state that Alabama Power currently manages 180 acres of right-of-way (ROW) on project lands to provide diverse habitat that benefits both game and non-game species. However, the PLP and WMP do not provide the methods of regular vegetation management within the ROWs, around Harris Dam and other project facilities. In the license application, please provide a description of specific vegetation management practices including the methods (e.g., planting for wildlife, mowing, trimming, cutting, use of herbicides) and the frequency of these activities.

Alabama Power Response:

Additional detail on Alabama Power's vegetation management practices in its rights-of-way is included in the Aesthetic and Land Use Section in Exhibit E of the Final License Application.

41. Section 7.0, *Timber Management*, of the draft WMP includes tables 7-1 and 7-2 and figures 7-1 and 7-2 describing the timber stand compositions at Lake Harris and Skyline, respectively. The acreages for some of the stand types in the tables and figures do not match. Please check the total acreage of each stand type and include corrected and consistent acreages in the tables, figures, and discussion of a revised WMP, with the license application.

Alabama Power Response:

Total acreage has been reviewed by Alabama Power and is consistent between the WMP and Exhibit E of the Final License Application.

Threatened and Endangered Species

42. Section 10, *Threatened and Endangered Species*, of the PLP, includes natural history information about, and discussions of potential project effects on some, but not all, of the federally listed species on the U.S. Fish and Wildlife Service's (FWS) official species lists for the Harris Lake and Skyline Wildlife Management Area (WMA) portions of the project area. The PLP did not include information about the endangered Alabama lampmussel, Cumberland bean mussel, finereyed pigtoe mussel, pale lilliput (pearlymussel), shiny pigtoe mussel, snuffbox mussel, and the threatened spotfin chub, rabbitsfoot mussel that may occur within the Harris Project boundary, in the vicinity of Skyline WMA. The PLP also did not include information about the endangered southern pigtoe mussel or the threatened little amphianthus, that may occur within the Harris Project boundary, in the vicinity of Harris Lake.

In addition, on September 28, 2021, Commission staff filed updated official species lists for both the Harris Lake and Skyline portions of the project area. The endangered slabside pearlymussel and Morefield's leather flower, the threatened American Hart's-tongue fern, and the candidate monarch butterfly were added to the species list for the Skyline WMA portion of the project area. The updated species list for the Harris Lake portion of the project also includes the candidate monarch butterfly. Please ensure that the license application includes natural history information, discussions of potential project effects, and proposed PM&E measures (if any) for all the federally listed species on the updated official species lists.

Alabama Power Response:

The Threatened and Endangered Species Section in the Exhibit E of the Final License Application includes the natural history species information, affects analysis (if applicable), and proposed PME measures (if applicable), consistent with the Commission's September 28, 2021 updated species list.

43. In figure 10-19 of the PLP, five of the survey sites described for the white fringeless orchid are near the northeast end of Lake Harris. However, according to figure 10-18, these sites are outside this species' current habitat range. In the license application, please clarify why the survey area for this species extended beyond its range.

Alabama Power Response:

An explanation of the survey area is provided in the Threatened and Endangered Species Section in Exhibit E of the Final License Application.

44. Section 3.3.2, *Botanical Resources*, of the draft WMP states that although recent surveys did not detect it, a small portion of one of the known populations of the federally listed Price's potato bean may still occur within the Skyline portion of the project area. The draft WMP also states that Alabama Power proposes to conduct additional surveys for Price's potato bean in the area of the known population prior to any timber management activities to ensure that the known population would not be impacted if it is still present. This PM&E measure is not included in the PM&E tables or described in the PLP. Please ensure that this measure is included in the list of PM&Es to protect federally listed species in the license application.

Alabama Power Response:

This PME measure was added to the PME tables in Exhibit E of the Final License Application, where applicable.

Cultural Resources

45. Sections 13.1.1 and 13.1.2, *Cultural Resources – Affected Environment*, of the PLP state that not all of the sites identified during record searches conducted for the project (both at Lake Harris and Skyline portions of the project area) were selected for preliminary assessment. At Lake Harris, 101 of 330 sites were selected and at Skyline, 29 of 141 sites were selected. While the draft Historic Properties Management Plan (HPMP) provides additional information regarding the selection process, this document is Privileged and those without access to the HPMP may wish to understand why some sites were selected and others were not. Please ensure that the license application contains details explaining why these particular sites, and not all sites, were chosen and includes a discussion and documentation of the consultation that occurred to select these sites.

Alabama Power Response:

Alabama Power included information on the site selection process and consultation in Exhibit E of the Final License Application.

46. While the two cultural resources assessment reports filed with the draft HPMP (Appendix C, Lake Harris; Appendix D, Skyline WMA) include tables providing descriptions of all known cultural resource sites at Lake Harris and Skyline WMA, these comprehensive tables are not provided in the HPMP itself, which will be a stand-alone document when it is finalized. Please ensure that the license application and HPMP contain updated information regarding all cultural resource sites throughout the project areas (Skyline WMA, Lake Harris, and the Tallapoosa River downstream from Harris Dam within the area of potential effects [APE]). Please provide the information in summary form, suitable for the Commission's public (i.e., non-privileged) classification, in the license application and in more detailed, tabular form in the HPMP. In the HPMP tables, please include: (a) descriptions of all resources within the APE, including any sites not chosen for assessment; (b) the current National Register status of all resources; (c) a description of all potential project-related effects (including but not limited to, project operation activities, inundation, recreation, public access, and vandalism); (d) property ownership (e.g., Alabama Power, federal and state, private); and (e) a description of the proposed treatment for each site (e.g., monitoring, National Register evaluation, mitigation, etc.).

Alabama Power Response:

A summary of the information that FERC requested has been included in Exhibit E of the Final License Application. Due to the sensitive nature of the information requested by FERC, a table of the specific information requested was filed as "Privileged" in the Transmittal of the Final Historic Properties Management Plan, in Attachment 2 - Comments and Responses on the Draft HPMP.

Attachment 3

Harris Stakeholder Mailing List

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
John	Eddins	Advisory Council on Historic Preservation	401 F Street N.W. Suite 308	Washington	DC	20001-2637
Eddie	Plemons	Alabama B.A.S.S. Nation		President		
Jim	Sparrow	Alabama Bass Federation	1263 County Road 85	Prattville	AL	36067
Nathan	Aycock	Alabama Department of Conservation and Natural Resources	1930 Fish Hatchery Road	Eastaboga	AL	36260
Todd	Fobian	Alabama Department of Conservation and Natural Resources	2200 Hwy 175	Marion	AL	36756-9368
Matthew	Marshall	Alabama Department of Conservation and Natural Resources	64 N. Union St.	Montgomery	AL	36130
Steve	Bryant	Alabama Department of Conservation and Natural Resources				
Andrew	Nix	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 584	Montgomery	AL	36130
Keith	Henderson	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 584	Montgomery	AL	36130
Keith	Gauldin	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 584	Montgomery	AL	36130
Charles (Chuck) F.	Sykes	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 584	Montgomery	AL	36130
Chris	Smith	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 584	Montgomery	AL	36130
Amy	Silvano	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 584	Montgomery	AL	36130
Patti	Powell	Alabama Department of Conservation and Natural Resources	64 North Union Street	Montgomery	AL	36130-0001
Evan	Lawrence	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 464	Montgomery	AL	36130
Michael	Holley	Alabama Department of Conservation and Natural Resources	64 North Union Street	Montgomery	AL	36130
Chris	Greene	Alabama Department of Conservation and Natural Resources	1820 C Glynwood Drive	Prattville	AL	36066
Doug	Deaton	Alabama Department of Conservation and Natural Resources	64 North Union Street , Suite 464	Montgomery	AL	36130

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Damon	Abernethy	Alabama Department of Conservation and Natural Resources	64 North Union Street, Suite 551	Montgomery	AL	36130
Tom	Littlepage	Alabama Department of Economic and Community Affairs	401 Adams Avenue, P.O. Box 5690	Montgomery	AL	36103-5690
Crystal	Davis	Alabama Department of Economic and Community Affairs	401 Adams Avenue , P.O. Box 5690	Montgomery	AL	36103-5690
Kenneth	Boswell	Alabama Department of Economic and Community Affairs	401 Adams Avenue, P.O. Box 5690	Montgomery	AL	36103-5690
Brian	Atkins	Alabama Department of Economic and Community Affairs	P.O. Box 5690	Montgomery	AL	36103-5690
Ashley	Lockwood	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130
Chris	Johnson	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130-1463
Jennifer	Haslbauer	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130
Fred	Leslie	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130
David	Moore	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130
Glenda	Dean	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130-1463
Michael	Len	Alabama Department of Environmental Management	P.O. Box 301463	Montgomery	AL	36130
Sherry	Bradley	Alabama Department of Public Health	P.O. Box 303017 RSA Tower	Montgomery	AL	36130-3017
Felicia	Buck	Alabama Environmental Council	2717 7th Ave. S., Suite 300	Birmingham	AL	35233
Rick	Oates	Alabama Forestry Commission	513 Madison Avenue	Montgomery	AL	36130
Joshua	Benefield	Alabama Forestry Commission, Clay County	513 Madison Avenue	Montgomery	AL	36104
Bruce	Bradford	Alabama Forestry Commission, Jackson County	513 Madison Avenue	Montgomery	AL	36104

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Richard	Prince	Alabama Forestry Commission, Randolph County	513 Madison Avenue	Montgomery	AL	36104
Ken	Wills	Alabama Glade Conservation Coalition	2253 Rockcreek Trail	Hoover	AL	35226
Eric	Sipes	Alabama Historical Commission				
Lee Anne	Wofford	Alabama Historical Commission	468 South Perry Street P.O. Box 300900	Montgomery	AL	36130-0900
Amanda	McBride	Alabama Historical Commission	468 South Perry Street, P.O. Box 300900	Montgomery	AL	36104
Ron	Young	Alabama Land & Lakes				
Michael	Patrick	Alabama Law Enforcement Agency	1830 Constellation Avenue	Alpine	AL	35014
Coty	Brown	Alabama Law Enforcement Agency	1830 Constellation Avenue	Alpine	AL	35014
Matt	Brooks	Alabama Law Enforcement Agency	1830 Constellation Avenue	Alpine	AL	35014
Steve	Marshall	Alabama Office of Attorney General	501 Washington Ave, P.O. Box 300152	Montgomery	AL	36104
Kay	Ivey	Alabama Office of the Governor	600 Dexter Avenue	Montgomery	AL	36130
John	Free	Alabama Public Service Commission; Electric Policy	P.O. Box 304260	Montgomery	AL	36130-4260
Jack	West	Alabama Rivers Alliance	2014 6th Ave N, Suite 200	Birmingham	AL	35203
Cindy	Lowry	Alabama Rivers Alliance	2014 6th Avenue N, Suite 200	Birmingham	AL	35203
Martha	Hunter	Alabama Rivers Alliance				
Fred	Couch	Alabama Scenic River Trail	P.O. Box 182	Choccolocco	AL	36254
William	Puckett	Alabama Soil and Water Conservation Commission	P.O. Box 304800	Montgomery	AL	36130-4800
Oscola Clayton	Sylestine	Alabama-Coushatta Tribe of Texas	571 State Park Road 56	Livingston	TX	77351
Bryant	Celestine	Alabama-Coushatta Tribe of Texas	571 State Park Road 56	Livingston	TX	77351
Rovena	Yargee	Alabama-Quassarte Tribal Town	101 East Broadway	Wetumpka	OK	74883
Nelson	Harjo	Alabama-Quassarte Tribal Town	P.O. Box 187	Wetumka	OK	74883
Gerrit	Jobsis	American Rivers	215 Pickens Street	Columbia	SC	29205
Mark	Singleton	American Whitewater	P. O. Box 1540	Cullowhee	NC	28723
Eric	Reutebuch	Auburn University				
Kristie	Coffman	Auburn University		Auburn	AL	
Clint	Lloyd	Auburn University	119 Swingle Hall	Auburn	AL	36849

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Elise	Irwin	Auburn University	119 Swingle Hall	Auburn	AL	36849
Russell	Wright	Auburn University				
Dennis	Devries	Auburn University	311 Swingle Hall	Auburn	AL	36849
Kenneth & Linda	Barnes	Barnes Construction	608 County Road 248	Newell	AL	36280
Chris	Oberholster	Birmingham Audubon	3720 Fourth Avenue South, Second Floor	Birmingham	AL	35222
Chandler Investment Properties, Inc.		Chandler Investment Properties, Inc.	308 Swagg Cove	Wedowee	AL	
Karen	Brunso	Chickasaw Nation	P.O. Box 1548	Ada	OK	74820
Bob	Stone	Chimney Cove Development	2030 Oak Grove Road	Carrollton	GA	30117
Rudy	Rooks	City of Heflin	850 Ross Street	Heflin	AL	36264
Roy	Adamson	City of Lineville	60151 Highway 49 N, P.O. Box 247	Lineville	AL	36266
Tim	Coe	City of Wedowee	24 North Main Street	Wedowee	AL	36278
Tiffany	Young	Clay County Chamber of Commerce	P.O. Box 85	Lineville	AL	36266
Melissa	Willis	Clay County Extension	93 County Road 31	Ashland	AL	36251
Chad	Robertson	Cleburne County Chamber of Commerce	101 Adams Street	Heflin	AL	36264
Jake	Durham	Cleburne County Commission	6751 Highway 78	Heflin	AL	36264
Debby	Mathews	Cleburne County Extension	72 Brock Ford Road, Suite A	Heflin	AL	36264
Kevin	Hunt	Consultant				
Andy	Whorton	Corblu Ecology Group	6919 Highway 119, Suite 400	Alabaster	AL	35007
David	Sickey	Coushatta Tribe of Louisiana	P.O. Box 818	Elton	LA	70532
Dr. Linda	Langley	Coushatta Tribe of Louisiana	P.O. Box 10	Elton	LA	70532
Amanda	Douhne'	D & H of LaGrange	168 Wisteria Ridge Terrace	LaGrange	GA	30240
Stephen	Yerka	Eastern Band of Cherokee Indians	P.O. Box 1927	Cherokee	NC	28719
Russ	Townsend	Eastern Band of Cherokee Indians	P.O. Box 1927	Cherokee	NC	28719
Richard	Sneed	Eastern Band of Cherokee Indians	P.O. Box 455	Cherokee	NC	28719
Brock	Long	Federal Emergency Management Agency	500 C Street SW	Washington	DC	20472
Monte	Terhaar	Federal Energy Regulatory Commission	888 First Street NE	Washington	DC	20426
Allan	Creamer	Federal Energy Regulatory Commission	888 First Street, N.E.	Washington	DC	20426

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Sarah	Salazar	Federal Energy Regulatory Commission	888 First Street NE	Washington	DC	20426
Rachel	McNamara	Federal Energy Regulatory Commission				
Alison	MacDougall	Federal Energy Regulatory Commission (Contractor)				
Helen & George	Greer	Global Creek Issue	832 Pointe South Drive	Lineville	AL	36266
Harold Dean	Hamner	Hamner Living Revocable Trust	40 Sheppard Way	Newnan	GA	30265
Crystal	Barnes	Hunter Bend Realty	25 Main Street	Wedowee	AL	36278
Rick	Roden	Jackson County Chamber of Commerce	407 E Willow St	Scottsboro	AL	35768
Bill	Nance	Jackson County Commission	102 E Laurel Street Suite 47	Scottsboro	AL	35768
Themika	Sims	Jackson County Extension	P.O. Box 906	Scottsboro	AL	35768
Christine	Norris	Jena Band of Choctaw Indians	P.O. Box 14	Jena	LA	7134
Gene	Crouch	Keller Williams Realty Group; Lake Wedowee	158 Bluebird Drive	Wedowee	AL	36278
Jeremiah	Hobia	Kialegee Tribal Town	P.O. Box 5690	Montgomery	AL	36103
Mekko Tiger	Hobia	Kialegee Tribal Town of the Muscogee (Creek) Nation	108 N. Main Street, P.O. Box 332	Wetumka	OK	74883
Dave	Heinzen	Lake Martin HOBO				
Mike	Dollar	Lake Martin HOBO	226 Tanglewood Lane	Dadeville	AL	36853
Jesse	Cunningham	Lake Martin HOBO	783 Ridge Road	Dadeville	AL	36853
John	Thompson	Lake Martin Resource Association	2544 Willow Point Road	Alexander City	AL	35010-6218
Bill	Boozer	Lake Wedowee Area Lake Watch	P.O. Box 55	Wedowee	AL	36278
Crystal	Waldrop	Lake Wedowee Docks, LLC	P.O. Box 26	Wedowee	AL	36278
Gary	Price	Lake Wedowee Property Owners Association	10840 Crayford Road			
Ira	Parsons	Lake Wedowee Property Owners Association	548 Deerfield Drive	Wedowee	AL	36278
Ricky	McWhorter	Lake Wedowee Property Owners Association	28 Ginger Drive	Wedowee	AL	36278

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
John & Diane	Lunsford	Lake Wedowee Property Owners Association	1124 County Road 816	Wedowee	AL	36278
Sylvia	French	Lake Wedowee Property Owners Association	111 Laurel Drive	Wedowee	AL	36278
Barry	Morris	Lake Wedowee Property Owners Association	306 County Road 2402	Wedowee	AL	36278
Tom	Garland	Lake Wedowee Property Owners Association	P.O. Box 55	Wedowee	AL	36278
Nan	Ferebee	Lake Wedowee Property Owners Association	P.O. Box 55	Wedowee	AL	36278
Bob	Davis	Lake Wedowee Property Owners Association	P.O. Box 55	Wedowee	AL	36278
Nancy	Burnes	Lake Wedowee Property Owners Association	190 Hummingbird Drive	Wedowee	AL	36278
Vickie	Stapler	Lake Wedowee Property Owners Association	P.O. Box 55	Wedowee	AL	36278
Mark	Sidwell	Lakeside Marina	21143 Highway 431	Wedowee	AL	36278
Sabrina	Wood	Middle Tallapoosa Clean Water Partnership	17350 Central Plank Road	Eclectic	AL	36024
Ken	Carleton	Mississippi Band of Choctaw Indians	P.O. Box 6257	Choctaw	MS	39350
Brad	Mitchell	Mitchell Properties	795 Creek Trail	Wedowee	AL	36278
James	Floyd	Muscogee (Creek) Nation	P.O. Box 580	Okmulgee	OK	74447
Robin	Soweka	Muscogee (Creek) Nation of Oklahoma	P.O. Box 580	Okmulgee	OK	74447
RaeLynn	Butler	Muscogee (Creek) Nation of Oklahoma	P.O. Box 580	Okmulgee	OK	74447
Roger	McNeil	National Weather Service	465 Weather Vane Road	Calera	AL	35040
Stan	Nelson	Nelson and Company	400 Emery Drive Suite 300	Birmingham	AL	35244
Pace	Wilber	NOAA National Marine Fisheries Service; Hydropower FERC licensing	263 13th Avenue South	St. Petersburg	FL	33701
Joel	Houser	Open Space Institute	175 Baylor School Road	Chattanooga	TN	37405
Stephanie	Bryan	Poarch Band of Creek Indians	5811 Jack Springs Road	Atmore	AL	36502

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Larry	Haikey	Poarch Band of Creek Indians	5811 Jack Springs Road	Atmore	AL	36502
Randall	Rogers	Randall F. Rogers, PC	244 Roswell Street, Suite 100	Marietta	GA	30060
Dorothy	Tidwell	Randolph County Chamber of Commerce	3355 Highway 431, Suite 11, P.O. Box 431	Roanoke	AL	36274
Doug & Jan	Crisp	Randolph County Chamber of Commerce	3355 Highway 431, Suite 11, P.O. Box 431	Roanoke	AL	36274
Derek	Farr	Randolph County Commission	146 Vaughn Street	Roanoke	AL	36274
Bryant	Whaley	Randolph County Economic Development Authority	P.O. Box 431	Roanoke	AL	36274
Donnie	Knight	Randolph County Emergency Management Agency				
Tiffany	Moore	Randolph County Extension	1 South Main Street, P.O. Box 227	Wedowee	AL	36278
Mark	Prestridge	Randolph County Water Authority				
Becky	Rainwater	ReMax Lakefront	20755 Highway 431 Suite 1	Wedowee	AL	36278
Thomas T.	Lamberth	Russell Lands; Lake Martin Resource Association				
Steve	Forehand	Russell Lands; Lake Martin Resource Association	2544 Willow Point Road	Alexander City	AL	35010
Pare	Bowlegs	Seminole Nation of Oklahoma	P.O. Box 1498	Wewoka	OK	74884
Paul	Backhouse	Seminole Tribe of Florida	6300 Stirling Road	Hollywood	FL	33024
Bruce	Knapp	Stakeholder				
Robin	Crockett	Stakeholder				
Chuck	Denman	Stakeholder				
Carol	Knight	Stakeholder				
Albert	Eiland	Stakeholder				
Matt and Ann	Campbell	Stakeholder				
Richard	Bronson	Stakeholder				
Hardman Heights Residential Assoc.		Stakeholder	Cedar Cove Drive	Wedowee	AL	36278
Frank and Michelle	Varisco	Stakeholder	572 Wylie Road	Wedowee	AL	36278
Steve	Traylor	Stakeholder	4329 County Road	Clanton	AL	35045
Jimmy	Traylor	Stakeholder	334 Grande Vista Circle	Chelsea	AL	35043
George	Traylor	Stakeholder	5034 County Road 15	Wadley	AL	36276
Paul	Trammell	Stakeholder				

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
David & Elaine	Thompson	Stakeholder	518 Balrack Road	Newnan	GA	30263
David	Thomas	Stakeholder				
Linda	Stone	Stakeholder	302 County Rd 3291	Wedowee	AL	36278
Bob & Tish	Stone	Stakeholder	438 Deer Trace	Wedowee	AL	36278
John	Stewart	Stakeholder	84 Muffit Drive	Wedowee	AL	36278
Tricia	Stearns	Stakeholder				
David & Glenell	Smith	Stakeholder	P.O. Box 55	Ashland	AL	36251
Barry	Smith	Stakeholder	121 Red Eye Lane	Wedowee	AL	36278
Glenell	Smith	Stakeholder				
Bob	Siverson	Stakeholder	280 Indian Creek	Wedowee	AL	36278
Jerrel	Shell	Stakeholder				
Dale	Rose	Stakeholder	976 Pointe South Drive	Lineville	AL	36266
Barton	Roby	Stakeholder	396 Hunter Bend Drive	Wedowee	AL	36278
Robert and Amy	Riffel	Stakeholder	143 Misty Lane	Wedowee	AL	36278
Tracy	Rice	Stakeholder	1920 Little John Drive	Oxford	AL	36203
Alison	Pruett	Stakeholder	194 Daisy Drive	Wedowee	SL	36278
Jerry & Mary Lee	Poss	Stakeholder	70 Sanford Avenue	Lineville	AL	36266
Mellie	Parrish	Stakeholder				
Ginny	Oxford	Stakeholder	158 Azalea Drive	Wedowee	AL	36278
Joanne	Ninesling	Stakeholder	336 River Ridge Road	Alexander City	AL	35010
Harry E.	Merrill	Stakeholder	97 Ivey Drive	Lineville	AL	36266
Judy	McWhorter	Stakeholder	28 Ginger Drive	Wedowee	AL	36278
Bradford	McLane	Stakeholder	4345 Caldwell Mill Road	Birmingham	AL	35243
Jim	McAlear	Stakeholder	307 Red Cedar Lane	Wedowee	AL	36278
Donna	Matthews	Stakeholder	105 Woodland Avenue	Wedowee	AL	36278
Jeremy	Lipham	Stakeholder	181 Laurel Drive	Wedowee	AL	36278
Tom	Lettieri	Stakeholder		Wedowee	AL	
Gerry	Knight	Stakeholder	1278 Doublehead Road	Roanoke	AL	36274
Butch	Jackson	Stakeholder	160 Rosie Hill Lane	Wedowee	AL	36278
Laurie	Howe	Stakeholder	468 South Perry Street	Montgomery	AL	36130
Sonja	Hollomon	Stakeholder	P.O. Box 734	Wedowee	AL	36278
Sid & Susan	Hare	Stakeholder	1263 Main Street	Roanoke	AL	36274
Larry	Hankes	Stakeholder	47855 Timberview Drive	Big Rock	IL	

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Evelyn	Hammrick	Stakeholder	141 Hill Crest Court	Wedowee	AL	36278
Andrew	Hall	Stakeholder	2409 County Road 240	Wedowee	AL	36278
Warren	Ginny	Stakeholder	P.O. Box 266	Heflin	AL	36264
Carl & Mary Ann	Engstrom	Stakeholder	P.O. Box 663	Wedowee	AL	36278
Tom and Marie	Dunaway	Stakeholder				
Cody	Deal	Stakeholder	13 Turtle Cove	Wedowee	AL	36278
Eldred "Butch"	Davis	Stakeholder	315 Wild Turkey	Wedowee	AL	36278
Patty & Ken	Cook	Stakeholder	P.O. Box 1498	Wewoka	OK	74884
Charles Gary	Clark	Stakeholder	3938 County Road 49	Wadley	AL	36276
Mary Lynn	Chandler	Stakeholder	274 Twin Oaks Drive	Wedowee	AL	36278
Richard	Burnes	Stakeholder	190 Hummingbird Drive	Wedowee	AL	36278
Eleanor	Brannon	Stakeholder	84 Arrowhead Drive	Wedowee	AL	36278
Joel	Black	Stakeholder				
Chip, Tammy & Becca	Baxter	Stakeholder				
Sue	Agnew	Stakeholder	1131 Lake Geneva Drive	Wedowee	AL	36278
Jason	Throneberry	The Nature Conservancy of Alabama	2100 1st Avenue North, Suite 500	Birmingham	AL	35203
Mitchell L.	Reid	The Nature Conservancy of Alabama	2100 1st Avenue North, Suite 500	Birmingham	AL	35203
Ryan	Morrow	Thlopthlocco Tribal Town	P.O. Box 188	Okemah	OK	74859
Janet	Maylen	Thlopthlocco Tribal Town	P.O. Box 188	Okemah	OK	74859
Elizabeth	Toombs	Tribal Historic Preservation Office Cherokee Nation	P.O. Box 948	Tahlequah	OK	74465
Robert	Thrower	Tribal Historic Preservation Officer Poarch Band of Creek Indians	5811 Jack Springs Road	Atmore	AL	36502
Chris	Wood	Trout Unlimited	1777 N. Kent Street, Suite 100	Arlington	VA	22209
Marshall	Pierite	Tunica-Biloxi Tribe	150 Melacon Road	Marksville	LA	71351
Office of the Solicitor		U. S. Department of Interior	75 Spring Street SW, Suite 1328	Atlanta	GA	30303-3309
Brigadier General Diana M.	Holland	U.S. Army Corps of Engineers	60 Forsyth Street SW Room 9M15	Atlanta	GA	30303
Joan	Zehrt	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Jonas	White	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628
Chuck	Sumner	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628
Meredith	LaDart	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628
Jenny	Jacobson	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628
Randall	Harvey	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628-0001
Leon	Cromartie	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628-0001
Michael	Creswell	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628-0001
Bob	Allen	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628
Kristina	Mullins	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628
Craig	Litteken	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628-0001
James	Hathorn	U.S. Army Corps of Engineers	109 Saint Joseph Street, P.O. Box 2288	Mobile	AL	36628-0001
Office of the Solicitor		U.S. Bureau of Indian Affairs	1849 C. Street, NW, MS 6557	Washington	DC	20240
Bruce	Maytubby	U.S. Bureau of Indian Affairs	545 Marriott Drive, Suite 700	Nashville	TN	37214
John	Sullivan	U.S. Bureau of Land Management	273 Market Street	Flowood	MS	39232
Michael	Nedd	U.S. Bureau of Land Management	1849 C. Street NW MIB 5655	Washington	DC	20240
Karen	Mouritsen	U.S. Bureau of Land Management	7450 Boston Boulevard	Springfield	VA	22153
George	Detweiler	U.S. Coast Guard	Navigation Standards Division 2100 2nd Street SW STOP 7580	Washington	DC	20593
Commanding Officer		U.S. Coast Guard	1500 S. Broad Street, #102	Mobile	AL	36605-1804
Gina	Raimondo	U.S. Department of Commerce	1401 Constitution Avenue NW	Washington	DC	20230

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Ntale	Kajumba	U.S. Environmental Protection Agency				
Mary	Walker	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Lisa	Perras Gordon	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Chauncey	Orr	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Lydia	Mayo	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Chris	Decker	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Maria	Clark	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Jamal	Cooper	U.S. Environmental Protection Agency	61 Forsyth Street SW	Atlanta	GA	30303
Erin	Padgett	U.S. Fish and Wildlife Service	Daphne ES Field Office 1208-B Main Street	Daphne	AL	36526
		U.S. Fish and Wildlife Service	1875 Century Blvd NE Ste 200	Atlanta	GA	30345-3319
Jeff	Powell	U.S. Fish and Wildlife Service	Daphne ES Field Office 1208-B Main Street	Daphne	AL	36526
Bill	Pearson	U.S. Fish and Wildlife Service	Daphne ES Field Office 1208-B Main Street	Daphne	AL	36526
Leo	Miranda	U.S. Fish and Wildlife Service	1875 Century Blvd NE Suite 200	Atlanta	GA	30345-3319
Jennifer	Grunewald	U.S. Fish and Wildlife Service	Daphne ES Field Office 1208-B Main Street	Daphne	AL	36526
Evan	Collins	U.S. Fish and Wildlife Service	Daphne ES Field Office 1208-B Main Street	Daphne	AL	36526
Mike	Rogers	U.S. House of Representatives	324 Cannon House Office Building	Washington	DC	20515-0103
		U.S. National Park Service	100 Alabama Street SW	Atlanta	GA	30303
Jeff	Duncan	U.S. National Park Service	100 West Martin Luther King, Jr. Blvd Suite 214	Chattanooga	TN	37402
Michael T.	Reynolds	U.S. National Park Service	1849 C Street NW	Washington	DC	20240

First Name	Last Name	Company	Business Street	Business City	Business State	Business Postal Code
Tommy	Tuberville	U.S. Senate	Russell Senate Office Building Suite 142	Washington	DC	20510
Richard	Shelby	U.S. Senate	304 Russell Senate Office Building	Washington	DC	20510
Whitney	Warrior	United Keetoowah Band of Cherokee Indians of Oklahoma	P.O. Box 746	Tahlequah	OK	74464
Joe	Bunch	United Keetoowah Band of Cherokee Indians of Oklahoma	P.O. Box 746	Tahlequah	OK	74465
Dan	Hayba	United States Geological Survey	12201 Sunrise Valley Drive	Reston	VA	20192
Tom	Diggs	University of Georgia				
Elliott	Cotney	Wadley Kiwanis	P.O. Box 130	Wadley	AL	36276
Paul	Smith	Wedowee Kiwanis	150 Waters Drive	Lineville	AL	36266-9049
Randy	Morris	Wedowee Marine Marina and Wedowee Marine South	21130 Highway 431	Wedowee	AL	36278
Brad	Schallert	World Wildlife Fund	1250 24th St NW	Washington	DC	20037