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ALABAMA POWER
A SOUTHERN COMPANY

November 20, 2009

VIA Electronic Filing

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

RE: Initial Study Report for the Martin Hydroelectric Project (FERC No. 349-150)

Dear Secretary Bose,

Alabama Power Company (Alabama Power) is utilizing the Federal Energy Regulatory Commission's (FERC) Integrated Licensing Process (ILP) to complete the relicensing process for the Martin Dam Hydroelectric Project (FERC No. 349-150). On April 17, 2009 and July 9, 2009, the FERC approved Alabama Power's 22 study plans for the Martin Project. Pursuant to Section 5.15 (c) of the ILP, Alabama Power herein submits its Initial Study Report for the 22 approved relicensing studies. In Attachment A, Alabama Power provides a summary table of the proposed modifications. Attachment B includes individual summaries for each study including data collected, schedule and any variances or modifications proposed by Alabama Power. Alabama Power is not proposing any additional studies.

If you have any questions regarding the Initial Study Report, please contact Mr. Jim Crew at (205) 257-4265 or jfcrew@southernco.com.

Very Truly Yours,

Eugene B. Allison
Hydro General Manager
Alabama Power Company

Attachments A and B

Cc(w/attachments): Mark Pawlowski, FERC
Lee Emery, FERC
Martin Project Stakeholder Distribution List

ATTACHMENT A

SUMMARY TABLE OF MODIFICATIONS

TABLE OF STUDY PLANS AND PROPOSED MODIFICATIONS

Table 1 provides the Martin Project study plans and proposed modifications.

Study Plan #	Study Plan Name	Modifications? YES or NO	Description of Modification
1	MIGRATORY FISH TALLAPOOSA BASIN LITERATURE REVIEW	NO	N/A
2	ASSESSMENT OF FISH DENSITY & SPECIES COMPOSITION ASSOCIATED WITH VARIOUS SHORELINE TYPES	NO	N/A
3	EVAUATION OF MINIMUM FLOWS DOWNSTREAM OF MARTIN DAM	YES	Mussel, snail, and crayfish sampling originally scheduled for early fall 2009 will be rescheduled to April/May 2010 (assuming river flows return to normal). Alabama Power requests a modification to the schedule to distribute a draft report in July 2010 and a final report in November 2010.
4	FISH ENTRAINMENT AND TURBINE MORTALITY	YES	Alabama Power requests a modification to the schedule to distribute the draft report in April 2010.
5	RARE, THREATENED AND ENDANGERED SPECIES SURVEYS	YES	Alabama Power requests a modification to the schedule to complete sampling in April – June 2010 and distribute a draft report in July 2010 and a final report in November 2010.
6	STRIPED BASS TELEMETRY STUDY	NO	N/A
7	WILDLIFE MANAGEMENT PROGRAM	NO	N/A

Study Plan #	Study Plan Name	Modifications? YES or NO	Description of Modification
8	BASELINE WATER QUALITY	YES	Alabama Power requests a modification to the schedule for collection of additional nutrient data at 8 sites during November 2009 through March 2010. This will require a schedule modification to submit the draft report in June 2010 and a final report in November 2010.
9	LOCATION OF REGULATED DISCHARGES ON LAKE MARTIN	NO	N/A
10	EROSION AND SEDIMENTATION	YES	Alabama Power expects to complete sampling in January 2010 if water levels recede to historic winter levels. Due to this delay, Alabama Power requests to modify the schedule to distribute a draft report in June 2010 (two months later) and a final report in November 2010 (one month earlier).
11	WATER QUANTITY, WATER USE, AND WATER WITHDRAWALS	NO	N/A
12a	RULE CURVE CHANGE MODELING ANALYSIS	YES	Alabama Power proposes to include additional language in Study Plan 12(a) relative to downstream analyses and the use of Alabama Power's Hydro Energy Budget.
12b	EFFECTS OF RULE CURVE CHANGE ON SEDIMENTATION RATES AND NUISANCE AQUATIC VEGETATION	YES	Alabama Power requests a modification to the schedule to distribute the draft report in May 2010.

Study Plan #	Study Plan Name	Modifications? YES or NO	Description of Modification
12c	EFFECTS OF A RULE CURVE CHANGE ON WATER QUALITY	YES	Alabama Power requests a modification to the schedule to distribute the draft report in September 2010 and the final report in December 2010.
12d	EFFECTS OF A RULE CURVE CHANGE ON LAKE AND DOWNSTREAM EROSION	NO	N/A
12e	EFFECTS OF A RULE CURVE CHANE ON FEDERALLY THREATENED AND ENDANGERED SPECIES AT THE MARTIN PROJECT AND IN THE TALLAPOOSA RIVER BELOW THURLOW DAM	YES	Mussel and snail sampling originally scheduled for late summer/early fall 2009 will be moved to April - June 2010 (assuming river flows return to normal conditions). In addition, Alabama Power requests modification to the schedule for draft and final Reports to be distributed in July 2010 and September 2010, respectively.
12f	EFFECTS OF A RULE CURVE CHANGE ON DOWNSTREAM RECREATION	YES	Alabama Power requests a modification to the schedule to distribute the draft report in July 2010 and the final report in September 2010.
12g	EFFECTS OF RAISING WINTER POOL LEVEL AND INCREASING THE DURATION OF SUMMER POOL ON LAKE MARTIN RECREATION USE	NO	N/A
12h	EFFECTS OF RAISING WINTER POOL LEVEL AND INCREASING THE DURATION OF SUMMER POOL ON ECONOMIC INDICATORS	NO	N/A
13	SHORELINE MANAGEMENT PROGRAM	NO	N/A
14	RECREATION PLAN	NO	N/A

Study Plan #	Study Plan Name	Modifications? YES or NO	Description of Modification
15	CULTURAL RESOURCES PROGRAMMATIC AGREEMENT (PA) AND HISTORIC PROPERTIES MANAGEMENT PLAN (HPMP)	NO	N/A

ATTACHMENT B

INITIAL STUDY REPORT FOR THE MARTIN HYDROELECTRIC PROJECT

STUDY PLAN 1 – MIGRATORY FISH
TALLAPOOSA BASIN LITERATURE REVIEW

STUDY GOALS AND DESCRIPTION

The United States Fish and Wildlife Service (USFWS) is interested in understanding and documenting the migratory fish species that currently or historically utilized the Tallapoosa River through a literature-based review. Of those species, American eel is of particular concern as this catadromous species has been collected in the Tallapoosa River downstream of the Thurlow Project, and passage of this species through the multiple dams on the Tallapoosa and Alabama Rivers is a concern for completion of its lifecycle.

USFWS is also interested in what other southeast hydroelectric power projects are doing with regard to managing American eels and would like to see a review and summary of other American eel management plans and any recovery plans for diadromous fish species in the Tallapoosa Basin.

The products for this study are a literature search and review and summary of the information gathered.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 1 approved by FERC on April 17, 2009.

Alabama Power has completed a draft version of the Tallapoosa River Fish Passage Information Document. Components of the information document include:

- Initial comments/edits from the USFWS on the first draft of the report.
- Alabama Power has reviewed the historic range of migratory (anadromous, catadromous, and diadromous) fish species with emphasis on those species that are listed as rare, threatened or endangered by the USFWS.
- Alabama Power has begun development of a bibliography of the documents relevant to the information document. Alabama Power has compiled extensive information on the American eel, including recovery plans and information from other hydroelectric power projects in the US and internationally. This data has been compiled on a DVD and distributed to USFWS and Alabama Department of Conservation and Natural Resources (ADCNR) for review.
- Alabama Power has not gathered information on abandoned dams located on Lake Martin tributary streams.

ADHERENCE TO SCHEDULE APPROVED ON APRIL 17, 2009?

☒ YES ☐ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power is not proposing any modifications to Study Plan 1 approved by FERC on April 17, 2009.

STUDY PLAN 2
ASSESSMENT OF FISH DENSITY & SPECIES COMPOSITION
ASSOCIATED WITH VARIOUS SHORELINE TYPES

STUDY GOALS AND DESCRIPTION

The Alabama Department of Conservation and Natural Resources (ADCNR) has historically recommended that for protection of aquatic resources, shoreline habitat not be altered as a property is developed. When a property owner has requested to alter the natural habitat by building a seawall or bulkhead, the ADCNR has promoted the use of rip rap by itself or in addition to the seawall to provide a "better" habitat for aquatic species. The ADCNR wishes to investigate the value of this historic recommendation to determine its effectiveness in meeting their goals for aquatic habitat. The ADCNR is especially interested in learning what type structure/material currently used on the lake is the most effective in providing shoreline refuge, habitat, etc., for aquatic and semi-aquatic species.

The products for this study include a review of literature available on various shoreline structures (*i.e.*, seawall, seawall/rip rap, undeveloped, and large stone or rock reinforced shoreline – including construction costs) and two reports regarding field studies at selected sites that represent the four types of shoreline habitats on Lake Martin.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 2 approved by FERC on July 9, 2009.

- Alabama Power's consultant has completed the field collection of data regarding semi-aquatic amphibians and reptiles associated with various shoreline structures on Martin Lake.
- Auburn University personnel have completed the first year study of fish density and species composition associated with various shoreline habitat types on Lake Martin. All selected sites were sampled in 2009 and will be re-sampled as planned in 2010.

ADHERENCE TO SCHEDULE APPROVED ON JULY 9, 2009?

☒ YES ☐ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power is not proposing any modifications to Study Plan 2 approved by FERC on July 9, 2009.

STUDY PLAN 3
EVAUATION OF MINIMUM FLOWS DOWNSTREAM OF MARTIN DAM

STUDY GOALS AND DESCRIPTION

Operation of hydroelectric projects in a peaking mode could result in impacts downstream of the project in the tailrace area. The Alabama Department of Conservation and Natural Resources (ADCNR) and the US Fish and Wildlife Service (USFWS) would like to characterize the tailrace at Martin Dam and understand the relationship of project operation and the potential impacts of hydro peaking on the aquatic fauna and aquatic habitat in the tailrace area downstream of the Martin Project and downstream in the Tallapoosa River below the Thurlow Dam. In addition, the agencies are interested in system wide flow management of Tallapoosa River. In particular, the ADCNR would like to explore possibilities for flexibility in the Martin Dam operations that could enhance downstream areas – Martin tailrace, Yates reservoir, Thurlow reservoir, and the Tallapoosa River downstream of Thurlow Dam not to exceed the mouth of the Tallapoosa (RM 0).

The study products are results of historic field collections in the Martin Dam tailrace, a compilation of existing environmental studies for the Tallapoosa River downstream of Thurlow Dam, and a report of current field sampling conducted in the Tallapoosa River downstream of Thurlow Dam.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 3 approved by FERC on April 17, 2009.

- Alabama Power has reviewed the Martin Dam project operations.
- Alabama Power has reviewed and compiled the existing environmental data for the Tallapoosa River downstream of Thurlow Dam. Alabama Power has distributed this information to the USFWS and ADCNR for review and discussion.
- Alabama Power has performed fisheries field surveys in the Martin Dam tailrace. Proposed mussel, snail, and crayfish sampling in the Martin Dam Tailrace was not completed due to high water during late 2009.

ADHERENCE TO SCHEDULE APPROVED ON APRIL 7, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power experienced unusually high amounts of rainfall in August, September, and October of 2009. As a result, the tailrace levels at the Martin Project have been higher than normal. Mussel, snail, and crayfish sampling originally scheduled for early fall 2009 will be rescheduled to April/May 2010 (assuming river flows return to normal). The USFWS has been consulted and approves this modification. The sites to be sampled for this study in 2010 include several locations in the Martin Dam Tailrace within ¼ mile downstream of the dam.

Alabama Power requests modification to the schedule to distribute a draft report in July 2010 and a final report in November 2010.

STUDY PLAN 4
FISH ENTRAINMENT AND TURBINE MORTALITY

STUDY GOALS AND DESCRIPTION

Operation of hydroelectric projects can result in the sporadic entrainment of fish into the project turbines. Passage through the turbines can result in some degree of mortality as well as removal of fish from the project reservoir. The Alabama Department of Conservation and Natural Resources (ADCNR) and the U. S. Fish and Wildlife Service (USFWS) would like to understand the relationship of project operation and the potential impacts of entrainment and turbine mortality on fish in Lake Martin.

The study products are a desktop analysis (to estimate the magnitude of entrainment and turbine mortality) report and a report regarding field verification and the use of hydroacoustic technology to verify entrainment estimates and sizes of fish entrained.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 4 approved by FERC on April 17, 2009.

- Alabama Power has completed a draft of the Fish Entrainment and Turbine Mortality desktop analysis.
- Alabama Power has completed two quarters of the entrainment field collections using two separate types of hydroacoustic equipment.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

OTHER MODIFICATIONS TO STUDY PLAN

Alabama Power requests a modification to the schedule for Study Plan 4 to file the Draft report in April 2010. Alabama Power is not requesting modification of the schedule for the Final Report.

STUDY PLAN 5
RARE, THREATENED AND ENDANGERED SPECIES SURVEYS

STUDY GOALS AND DESCRIPTION

The U.S. Fish and Wildlife Service (USFWS) and Alabama Department of Conservation and Natural Resources (ADCNR) are concerned about the presence of any Federal and/or State Rare, Threatened, and Endangered (RTE) species that currently reside within the Martin project boundary.

The goal of this study is to identify the location and abundance of aquatic and terrestrial RTE species within the project boundary and determine if project operation potentially impacts any species present. If there are project related impacts, the agencies would like to determine ways to limit those impacts. The agencies would also like to determine if there are opportunities to enhance or reintroduce species to specific areas within or near the project.

The study products are a report of RTE locations, including maps (both electronic and hard copy), within and/or adjacent to the Lake Martin Project. This information will also be used to prepare a Biological Assessment for the Martin Project.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 5 approved by FERC on April 17, 2009.

A summary of the field surveys is as follows:

- All surveys were performed on by qualified investigators.
- Number of fish species collected at each site ranged from 3 to18.
- Samples were largely dominated by centrarchids (sunfishes) and cyprinids (shiners).
- No federally listed fish species were collected.
- *Etheostoma chuckwachatte* (lipstick darter) was collected from Little Kowaliga and Timbergut creeks; also occurs in Hillabee Creek.
- Snails and mussels were limited to Parker, Elkahatchee, Oakachoy, and Wind creeks.
- *Elimia flava, Campeloma regulare* were the only snail species found.
- *Villosa lienosa* was the only mussel species found.
- No federally or state listed snail or mussel species were collected.
- *Amphianthus pusillus* (pool sprite) is primarily observed on mostly open flat-rocks in various portions of Alabama and Georgia. No similar habitat was found to this in recent or prior studies in the vicinity of Lake Martin.
- *Arabis georgiana* (Georgia rock cress) is frequently located on wooded bluffs. While this habitat is available, no individuals were observed on any of the sites investigated.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power experienced unusually high amounts of rainfall in August, September, and October of 2009. As a result, the reservoir/tailrace levels at the Martin Project have been higher

than normal. This prevented the completion of sampling for fishes, mussel, snail, and crayfish at seven (7) sites originally scheduled for early fall 2009. These sites will be rescheduled for April-June 2010 (assuming river flows return to normal). The USFWS has been consulted and approved this modification. The sites to be sampled in 2010 are listed below.

- Tallapoosa River @ Irwin Shoals
- Sandy Creek @ county 39 crossing
- Blue Creek (in Martin pool near creek mouth)
- Manoy Creek (3 locations near creek mouth)
- Tallapoosa River (Martin tailrace; several locations between dam and head of island)
- Tallapoosa River downstream of Thurlow Dam (two sites)

Alabama Power requests a modification to the schedule for Study Plan 5 to complete sampling in April – June 2010 and distribute a draft report in July 2010 and a final report in November 2010.

STUDY PLAN 6
STRIPED BASS TELEMETRY STUDY

STUDY GOALS AND DESCRIPTION

The Alabama Department of Conservation and Natural Resources (ADCNR) currently stocks Gulf-strain striped bass (*Morone saxatilis*) in Lake Martin. The ADCNR would like to understand the relationship of project operation and potential impact to striped bass habitat in Lake Martin. If such a relationship is present, the ADCNR would like to determine ways to predict periods of impact and limit their overall effects on the stocks of adult Gulf-strain striped bass in the lake.

The study goals include:

- Determine the depths, temperatures, and dissolved oxygen concentrations used by adult striped bass in Lake Martin during summer and identify those locations.
- Determine the approximate volume of suitable striped bass habitat present in Lake Martin during summer and examine possible factors (pollution, hydrology, project operation, etc.) that may affect this volume.
- Determine the hooking mortality and behavior of adult striped bass angled during summer in Lake Martin.

The study product is a report from Auburn University regarding the striped bass field studies at Lake Martin.

DATA COLLECTED

Auburn University personnel have collected the following data according to the methodology outlined in Study Plan 6 approved by FERC on April 17, 2009.

- Thirty striped bass were tagged in March and April 2009 with radio and sonic tags. Fish ranged in size from 4.77 – 17.03 kg with a mean of 9.00 kg.
- Tracking began on April 22 and ended on Oct 2, 2009. A total of 38 weekly tracking trips and sixteen 24-hour tracking trips were made during this time. Fish were located 0 to 15 times weekly for a total of 221 contacts. Additionally, fish were located during 24-hr tracks 2 to 24 times for a total of 234 contacts. Two of the tagged fish were never relocated, two were harvested by anglers, and two died of unknown causes. At least one fish was caught and released unharmed by an angler in May. Another angler reported catching and releasing one fish in August.
- Striped bass were generally found in deeper water as the summer progressed; likely this behavior was associated with thermoregulation, since fish were generally found in water $< 20°$ C and with dissolved oxygen (DO) > 2.5 ppm. However, in late August throughout September, fish were commonly found above the thermocline in water $\geq 24°$ C and DO $\geq$ 4 ppm. This shift was coincident with a steep decline in striped bass habitat below the thermocline that occurred during that same time period. Striped bass showed a wide range of temperature and DO usage throughout the study, often found in temperatures > 25° C and DO's < 2 ppm. Interestingly, striped bass were often found in marginal habitat (small bands of barely acceptable temps and DOs surrounded by large volumes of either

water > 25° C or DO < 1 ppm), even when large volumes of good habitat existed in the reservoir.

- Due to problems with the Hach DO/Temp meter, profiles were not collected in June, but seven profile samples were collected during July 10 – Oct 2. Telemetry data showed that striped bass habitat was abundant in June and had not begun to decline prior to early July. Striped bass habitat steadily declined throughout the study until late September, when unseasonably cool weather and several large precipitation events cooled the upper portion of the water column and allowed striped bass unrestricted movement.
- The hooking mortality portion of the study did not go as planned. One attempt was made during July using five striped bass. Four died within 0 to 30 minutes of capture, the last one died within 24 hours. Three additional efforts were made during August, but no striped bass were caught.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

MODIFICATIONS TO STUDY PLAN

As noted above, vertical profiles were not collected during July 2009. This omission should not impact the results of the study. At this time, Alabama Power is not proposing any modifications to Study Plan 6 approved by FERC on April 17, 2009.

STUDY PLAN 7
WILDLIFE MANAGEMENT PROGRAM

STUDY GOALS AND DESCRIPTION

The Alabama Department of Conservation and Natural Resources (ADCNR) would like to understand more about the lands that are included within the project boundary of the Martin Project (*i.e.*, quantity, location, timber stands, etc.). ADCNR is especially concerned about providing habitat diversity among all Alabama Power lands within the project boundary to enhance native vegetation and wildlife species (such as Priority 1 and 2 species and rare, threatened, and endangered species). This would include the conservation, restoration, and management of longleaf pine systems on project lands. ADCNR would like to work with the U.S. Fish and Wildlife Service (USFWS), Alabama Power, and interested stakeholders to develop a viable wildlife management program (WMP) for the Martin Project and minimize the Project's effects on terrestrial resources.

The study product is a Wildlife Management Program with maps and GIS overlays.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 7 approved by FERC on April 17, 2009.

- Alabama Power has compiled and distributed historic forest data to the ADCNR and USFWS and has developed GIS overlays and maps of:
  - all lands within the project boundary;
  - current land use classification;
  - specific forest stand data showing composition and general age for forest stands within the project boundary;
  - current timber management objectives for the tracts; and
  - locations of known populations of RTE species.
- Alabama Power's consultant has performed limited surveys of ground cover in general cover types - mature hardwood, mature longleaf, planted pine, mature loblolly pine, mixed pine hardwood, and disturbed areas. The report of this information is final and has been shared with the ADCNR and USFWS.
- Alabama Power has completed a first Draft of the Wildlife Management Program. General management objectives of the program include enhancing longleaf pine habitats, enhancing red-cockaded woodpecker habitats, establishing forest openings or areas with low basal density, and evaluating hunting opportunities.
- Alabama Power held meetings with the ADCNR and USFWS on September 23, 2009 and November 10, 2009 to discuss and develop the Wildlife Management Program.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

OTHER MODIFICATIONS TO STUDY PLAN

Alabama Power is not proposing any modifications to Study Plan 7 approved by FERC on April 17, 2009.

STUDY PLAN 8
BASELINE WATER QUALITY

STUDY GOALS AND DESCRIPTION

The Alabama Department of Environmental Management (ADEM), Alabama Department of Conservation and Natural Recourses (ADCNR), and the U.S. Fish and Wildlife Service (USFWS) have commented that the Martin Project should be managed as to meet State Water Quality Standards in the lake and in the tailrace. Information should be collected to evaluate any proposed changes to the rule curve and to address 303(d) list concerns (if applicable). The goal for this study is to prepare an adequate baseline of water quality information for Lake Martin and the project tailrace for use in developing an application for 401 water quality certification.

The study products are the 401 water quality certification application and a report detailing the nutrient and water quality conditions at Lake Martin from the Alabama Water Watch Program office at Auburn University.

DATA COLLECTED

Alabama Power or their consultant has collected the following data according to the methodology outlined in Study Plan 8 approved by FERC on April 17, 2009.

- Alabama Power has compiled historic and current water quality information available for Lake Martin and the tailrace area. The water quality data and the sources of data available are listed below.
    - Water Quality data available:
        - Tailrace DO and temperature: 2002 – present
        - Forebay profiles: 1993 – present
        - DO and temperature profiles at numerous locations: 1995 to present
        - Chemistry data at numerous locations including tailrace: 1993 to present
        - Nutrient data: 2004-2005, 2009
    - Sources of water quality data:
        - Draft Water Quality report included in PAD (Alabama Power, ADEM and Lake Watch Lake Martin)
        - 2006 Water Quality assessment filed w/ FERC
        - 2007 Rule Curve Variance report
        - Ongoing Alabama Power data collection
        - Tallapoosa Watershed Project
        - Auburn, Lake Watch Lake Martin, Alabama Water Watch 2009 nutrient study
- Additional sampling of nutrients and basic water quality parameters were collected at 16 sites monthly from April through October of 2009.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power is proposing to expand the study season and collect additional nutrient data from November 2009 through March 2010. Lake Watch will continue to collect samples from eight

(8) of the 16 sites previously sampled. Results of this winter sampling (in a year when rainfall has been greater than in a typical water year) will provide additional baseline water quality information and will also serve as a good comparison to the water quality sampling of 2007 (a drought year). This nutrient information will be used to describe baseline water quality and to aid in the analysis of potential changes to water quality resulting from a change in project operations.

Alabama Power requests a modification to the schedule outlined in Study Plan 8 approved by FERC on April 17, 2009. This schedule variance is related to the collection of additional nutrient data at 8 sites during November 2009 through March 2010. This will require a schedule modification to submit the Draft report in June 2010 and a final report in November 2010.

Table 1: Lake Martin Sampling Stations for 2009—Non-Growing Season

2009 STUDY SITE	LOCATION
4	TALLAPOOSA RIVER MARTIN DAM FOREBAY
8	SANDY CREEK @ SMITH LANDING
9	MANOY CREEK EMBAYMENT (ADEM SITE 9)
11	DENNIS CREEK EMBAYMENT
13	ELKHATACHEE CREEK ½ MILE BELOW SUGAR CREEK CONFLUENCE
14	MAINSTREAM @ HIGHWAY 280 BRIDGE
15	COLEY CREEK EMBAYMENT (ADEM SITE 7-slightly moved)
16	TALLAPOOSA RIVER UPSTREAM OF COLEY CREEK

STUDY PLAN 9
LOCATION OF REGULATED DISCHARGES ON LAKE MARTIN

STUDY GOALS AND DESCRIPTION

Stakeholders requested an identification of all regulated discharges into the Martin Project.

The study products are a list of all regulated discharges available to the public on Lake Martin (which includes the basin from Harris to Martin), a Geographic Information System (GIS) overlay of the discharge locations, and training guidelines for non-point source pollution detection.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 9 approved by FERC on April 17, 2009.

- Existing information (updated through May 2009) on regulated discharges and Section 319 non-point source pollutants for Lake Martin was collected for this study (through the use of secondary data). This information includes:
  - ADEM National Point Discharge Elimination System (NPDES) permitting guidelines;
  - current NPDES permits;
  - map & GIS overlay of current NPDES permits;
  - new & repaired On-site Sewage Systems (OSS) permits in Coosa, Elmore and Tallapoosa Counties;
  - Clean Water Partnership's Tallapoosa River Basin Management Plan; and
  - ADEM's Nonpoint Source (NPS) Management Program 2008 annual report.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009

☒ YES ☐ NO

OTHER MODIFICATIONS TO STUDY PLAN

Alabama Power is not proposing any modifications to Study Plan 9 approved by FERC on April 17, 2009.

STUDY PLAN 10
EROSION AND SEDIMENTATION

STUDY GOALS AND DESCRIPTION

Stakeholders identified shoreline erosion and sedimentation in areas of Lake Martin as two issues with which they are concerned. Alabama Power is collecting information on erosion areas within the lake and tailrace and on the amount of sedimentation occurring in the upper portion of the lake near Irwin Shoals and in the mouths of tributaries of Lake Martin. Additionally, agencies would like to understand if nuisance aquatic vegetation is becoming a problem in these areas of sedimentation. Stakeholders also identified "tributary headcutting" during winter drawdown as an issue to review.

Study products are a report with maps (both electronic and hard copy) of erosion spots and a report of sedimentation areas on Lake Martin.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 10 approved by FERC on April 17, 2009.

- Stakeholders and Alabama Power contractors have identified 21 erosion hotspot areas on Martin Lake or in the Martin Dam tailrace.
- Sedimentation areas were identified through stakeholder discussion and examination of the LIDAR and lake photography available for the project.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power is scheduled to perform field surveys from September 2009 until January 2010. High flow events have resulted in high lake levels in fall 2009 which prevented Alabama Power from beginning field surveys. Alabama Power expects to complete sampling in January 2010 if water levels recede to historic winter levels. Due to this delay, Alabama Power requests to modify the schedule to distribute a Draft report in June 2010 (two months later and a final report in November 2010 (one month earlier).

STUDY PLAN 11
WATER QUANTITY, WATER USE, AND WATER WITHDRAWALS

STUDY GOALS AND DESCRIPTION

Availability of water is of utmost concern to the future operation of the Martin Project. Understanding how much water is available and the various competing interests will provide valuable information for deciding how this scarce resource is managed.

The goal of this study is to describe Alabama Power's water withdrawal policy, current known water withdrawals from the Martin Project, ecological and navigational flow requirements in the Tallapoosa River basin, water withdrawal intake locations (depth), and drought contingency operations at the Martin Project.

The study product is a white paper that outlines Alabama Power policy.

DATA COLLECTED

Alabama Power has collected the following data according to the methodology outlined in Study Plan 11 approved by FERC on April 17, 2009.

- Alabama Power has obtained all the necessary information to complete the white paper.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power is not proposing any modifications to Study Plan 11 approved by FERC on April 17, 2009.

STUDY PLAN 12(A)
RULE CURVE CHANGE MODELING ANALYSIS

STUDY GOALS AND DESCRIPTION

Alabama Power's study goal is to determine the feasibility of revising the Martin rule curve and operating guidelines by modeling changes involving an increase in winter pool elevation in increments of 1 foot from el. 481 ft msl[2] to el. 486 ft msl (i.e., el. 482, 483, 484, 485, and 486 ft msl) as well as to examine the effects of maintaining the summer pool longer in the fall (October) and beginning the refilling of Lake Martin earlier (January 15 to reach full pool by April 1). This study will also evaluate impacts to flood control, navigation, minimum flows, and generation. Alabama Power is using existing tools to develop the appropriate flood control, routing and budget models for Martin to determine the feasibility of raising the winter rule curve. These tools include the Corps of Engineers HEC-RAS and Flood Frequency Analysis (FFA & SSP) Software Packages, HEC-ResSim, the ACT unimpaired flow data set developed by the Corps and others, APC's Project Routing model, and APC's HydroBudget model. The study methods are described in detail in Attachment A of Study Plan 12(a), which FERC approved on April 17, 2009.

DATA COLLECTED

Alabama Power has worked on developing the models and has provided two modeling workshops for a subset of MIG 3 stakeholders that volunteered to participate and who possess the technical expertise for modeling. The first workshop was held on February 10, 2009 and focused on the models and data sets that would be used in the modeling exercises, and a demonstration of the various models. Alabama Power held a second modeling workshop on September 29, 2009 which focused on the results of the model runs that had been completed to date.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power requests two modifications to Study Plan 12a. In Section 6.0 – Methodology – Alabama Power proposes to include the following statement describing additional analyses for the assessment of the effect of the rule curve changes on downstream elevation and acreages (to be inserted after the first sentence): "The data generated by the model runs for baseline and proposed alternatives will be used to conduct the analyses described in studies 12(b)-12(h). Additional analyses using the model output include mapping the maximum water surface elevations downstream associated with baseline and each proposed alternative and determining the amount and type of acreage affected downstream from each alternative."

In addition, in Attachment A of Study Plan 12(a), page 5, Coordination and Evaluation Section, Alabama Power proposes to add the following paragraph to describe the use of the Hydro Energy Model (formerly Hydro Budget) in the evaluation of the model output: "Magnitude, frequency and duration of flood events downstream of Martin can be analyzed using HEC Res-Sim; however, at this time (November 2009) the COE has not released a version of the model that

[2] Elevation 481 ft msl is equivalent to el. 480 Martin Datum (MD).

incorporates the flood control procedure at Martin. For this reason, the APC Hydro Energy Model will be compared to the HEC Res-Sim result. Either model can be used to determine the daily effects on stream flows for high flow events. Once the appropriate HEC Res-Sim model is released, APC may be able to incorporate a more refined HEC Res-Sim result in the analysis but it will depend on the time constraint of the relicensing process and the time of the release of the updated model".

Alabama Power believes these changes best reflect the current activities ongoing and proposed for Study Plan 12(a).

STUDY PLAN 12(B)
EFFECTS OF A RULE CURVE CHANGE ON SEDIMENTATION RATES AND NUISANCE AQUATIC VEGETATION

STUDY GOALS AND DESCRIPTION

Alabama Power is addressing potential changes to sedimentation rates and resulting potential increase in nuisance aquatic vegetation if rule curve changes are implemented. By holding the lake higher during the winter, shallow water habitat would likely increase, which may have adverse impacts on the lake. The previous 10 ft winter drawdown helps control aquatic vegetation as it freezes the plants and tubers and reduces the chances of additional aquatic vegetation establishing in the lake.

The goals of this study include:

- identify areas susceptible to increased sedimentation and establishment of nuisance aquatic vegetation; and
- develop a ranking system for these areas that describes the probability of increased sedimentation and establishment of nuisance aquatic vegetation at each proposed winter rule curve 1-ft elevation changes

Study products are a report with maps (both electronic and hard copy) of erosion spots on Lake Martin and Martin Dam tailrace and a report of sedimentation areas.

DATA COLLECTED

Data are being collected according to the methodology outlined in Study Plan 12(b) approved by FERC on April 17, 2009.

- Alabama Power is in the process of identifying areas susceptible to increased sedimentation and establishment of nuisance aquatic vegetation through the use of GIS analysis that incorporates LIDAR, soil types, and land uses to identify areas.
- Alabama Power is developing a process to rank the areas in terms of its probability to experience increased sedimentation and establishment of nuisance aquatic vegetation at each proposed winter rule curve level.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

OTHER MODIFICATIONS TO STUDY PLAN

Alabama Power proposes to modify the schedule for the Draft Report to May 2010.

STUDY PLAN 12(C)
EFFECTS OF A RULE CURVE CHANGE ON WATER QUALITY

STUDY GOALS AND DESCRIPTION

Alabama Power is addressing potential changes to water quality if rule curve changes are implemented.

Goals of this study include:

- Provide ADEM with sufficient data, to the extent possible, to examine the potential effects on water quality as a result of changing the winter rule curve elevation and/or extending the duration of the summer pool.
- Determine the probability that water quality will change (improve or degrade) with each change to lake level from existing conditions using the above data.

The study products are a baseline water quality report and a report detailing the nutrient and water quality conditions at Lake Martin.

DATA COLLECTED

Alabama Power has collected baseline water quality data in accordance with Study Plan 8, approved by FERC on April 17, 2009. These data provide the baseline information for conducting the analyses in Study Plan 12(c), which are contingent on having baseline data.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

Alabama Power requests a modification to the schedule outlined in Study Plan 12 (c) to have the Draft Report distributed in September 2010 and a Final Report distributed in December 2010.

STUDY PLAN 12(D)
EFFECTS OF A RULE CURVE CHANGE ON LAKE AND DOWNSTREAM EROSION

STUDY GOALS AND DESCRIPTION

Alabama Power is addressing potential changes to shoreline erosion in Lake Martin, the Martin tailrace and Tallapoosa River downstream of Thurlow Dam that may result from increased frequency, duration, and/or magnitude of flooding if rule curve changes are implemented.

Goals of this study are:

- to identify the effect that increased flooding may have on the increase number of shoreline erosion sites that may occur in the Martin tailrace and Tallapoosa River downstream of Thurlow Dam; and
- to evaluate the potential for increased or decreased erosion at the current erosion sites identified on Lake Martin in the MIG 2 Erosion Study Plan 3.

Study products are a report with maps (both electronic and hard copy) of erosion spots on Lake Martin and Martin Dam tailrace and a report of sedimentation areas.

DATA COLLECTED

Data were collected according to the methodology outlined in Study Plan 12(d) approved by FERC on April 17, 2009.

- Stakeholders and Alabama Power contractors have identified erosion hotspot areas on Martin Lake and in the Martin Dam tailrace.
- Sedimentation areas are being identified through LIDAR and lake photography available for the project.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

OTHER MODIFICATIONS TO STUDY PLAN

Alabama Power is scheduled to perform field surveys from September 2009 until January 2010. High lake levels have prevented Alabama Power from beginning field surveys to date (November 2009); however, sampling will be conducted as soon as Lake Martin is dropped to elevation 481 msl. Alabama Power anticipates that the sampling can be completed in accordance with the schedule approved on April 17, 2009. If Lake Martin is not drawn down to its winter pool level of 481 msl due to continued high flow events, Alabama Power will consult with FERC. At this time, however, Alabama Power proposes no modifications to the study plan approved by FERC on April 17, 2009.

STUDY PLAN 12(E)
EFFECTS OF A RULE CURVE CHANGE ON FEDERALLY THREATENED AND ENDANGERERD SPECIES AT THE MARTIN PROJECT AND IN THE TALLAPOOSA RIVER BELOW THURLOW DAM

STUDY GOALS AND DESCRIPTION
Alabama Power is addressing potential impacts to federally threatened and endangered species associated with a Lake Martin if rule curve changes are implemented.

The goals of this study are to:

- determine if increased flooding (magnitude, frequency and/or duration) would affect existing aquatic and terrestrial populations of federally threatened and endangered species in the lower Tallapoosa River.
- determine if a higher Martin lake level during the winter would potentially impact any existing aquatic and terrestrial populations of federally threatened and endangered species in the Martin Project boundary.

The study products are a report of RTE locations, including maps (both electronic and hard copy), at two sites on the Tallapoosa River downstream of the Thurlow Dam and a vegetation report from Dr. David Whetstone. This information will also be used to prepare a Biological Assessment for the Martin Project.

DATA COLLECTED
Data were collected according to the methodology outlined in Study Plan 12 (e) approved by FERC on April 17, 2009.

- Field surveys were performed by qualified investigators:
  - Number of fish species collected at each site ranged from 3 to18.
  - Samples were largely dominated by centrarchids (sunfishes) and cyprinids (shiners).
  - No federally listed fish species were collected.
  - *Etheostoma chuckwachatte* (lipstick darter) was collected from Little Kowaliga and Timbergut creeks; also occurs in Hillabee Creek.
  - Snails and mussels were limited to Parker, Elkahatchee, Oakachoy and Wind creeks.
  - *Elimia flava, Campeloma regulare* were the only snail species found.
  - *Villosa lienosa* was the only mussel species found.
  - No federally or state listed snail or mussel species were collected.
- Dr. David Whetstone (Jacksonville State University) has completed the final version The Lake Martin Vegetation Report and Alabama Power will provide to MIG 1.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

OTHER MODIFICATIONS TO STUDY PLAN
Alabama Power experienced unusually high amounts of rainfall in August, September, and October of 2009, resulting in high lake and tailrace water elevations and higher than normal riverflows downstream of the Martin Project. Mussel and snail sampling originally scheduled

for late summer/early fall 2009 will be moved to April - June 2010 (assuming river flows return to normal conditions). Alabama Power has consulted with USFWS and they approve this modification. The sites to be sampled in 2010 are listed below.

In addition, Alabama Power requests modification to the schedule for Draft and Final Reports to be distributed in July 2010 and September 2010, respectively.

STUDY PLAN 12(F)
EFFECTS OF A RULE CURVE CHANGE ON DOWNSTREAM RECREATION

STUDY GOALS AND DESCRIPTION

Alabama Power is addressing potential effects to downstream recreational access and facilities if rule curve changes are implemented.

In order to determine potential effects, Alabama Power is reviewing recreation resources in the river reaches below Martin Dam, identifying those recreational resources that may be affected by the changes in flows and/or water levels, and reviewing elevation data and/or depth profiles near identified recreational resources to determine if the resources will be affected. Alabama Power may also conduct site visits with MIG3 members to identified recreational resources.

DATA COLLECTED

At this time, Alabama Power is still conducting the hydrologic analyses associated with the proposed rule curve changes. No data have been collected specifically for this study. Once the hydrologic analyses are nearing completion, Alabama Power will conduct this study as proposed.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☐ YES ☒ NO

MODIFICATIONS TO STUDY PLAN

At this time, Alabama Power is proposing a modification to the schedule outlined in the study plans approved by FERC on April 17, 2009. In order for to ensure the results from Study Plan 12 (a) are available and accepted by MIG3 members, Alabama Power is proposing to distribute the Draft Report in July 2010 and the Final Report in September 2010.

STUDY PLAN 12(G)
EFFECTS OF A RAISING WINTER POOL LEVEL AND INCREASING THE DURATION OF SUMMER POOL ON LAKE MARTIN RECREATION USE

STUDY GOALS AND DESCRIPTION

Alabama Power is examining the effects on recreation use at Lake Martin if rule curve changes are implemented. This study has the following objectives: 1) estimate total recreational use of the lake, by month and by day type (weekday, weekend, holiday); 2) estimate recreational user characteristics (county of residence, activity participated in, shoreline property owner, etc.); and 3) estimate the effects of increasing the duration of the summer pool and increasing the elevation of winter pool on recreational use.

DATA COLLECTED

Data are being collected according to the methodology outlined in the study plans approved by FERC on April 17, 2009.

- As of November 1, 2009, survey clerks have completed 72 sampling days of the proposed 168 sampling days on the reservoir, 21 sampling days of the proposed 42 sampling days at public boat ramps, and 17 sampling days of the proposed 42 sampling days on the tailwater.
- As of November 1, 2009, survey clerks have completed 444 interviews with recreationists on Lake Martin. Survey clerks have completed an additional 52 interviews at public boat ramps.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

MODIFICATIONS TO STUDY PLAN

During the process of finalizing the scope of work with Southwick Associates, the number of sampling days for the reservoir was increased from 84 days to 168 days and the number of sampling days for the tailwater was decreased from 84 days to 42 days. Increasing the number of days on the reservoir should provide more data and allow Southwick Associates to provide more reliable estimates of recreation use, recreation user characteristics, and rule curve change effects. Alabama Power and Southwick Associates decided to decrease the number of days for the tailwater, but the decreased number of sampling days should still provide sufficient data regarding recreation use in the tailwater. The final scope of work also includes an increase in the number of sampling days (from 30 days to 42 days) for the intercept surveys at public launch sites.

STUDY PLAN 12(H)
EFFECTS OF A RAISING WINTER POOL LELVE AND INCREASING THE DURATION OF SUMMER POOL ON ECONOMIC INDICATORS

STUDY GOALS AND DESCRIPTION

Alabama Power is examining the effects on recreation-related economics, property values, and lake-related business sales at Lake Martin if rule curve changes are implemented. There are multiple objectives associated with each component of the study.

The objectives regarding recreation-related economics are to: 1) estimate trip cost by various categories; and 2) estimate economic impacts of recreational use.

The objectives regarding property values are to: 1) estimate characteristics of shoreline property owners and their property; 2) estimate usability of shoreline structures at various water levels; 3) estimate total value of shoreline property; 4) estimate costs associated with construction and/or maintenance of houses and any shoreline structures; 5) estimate economic impact of construction and/or maintenance costs; and 6) estimate the effects of increasing the duration of the summer pool and increasing the elevation of winter pool on shoreline property values.

The objectives regarding lake-related business sales are to: 1) estimate characteristics of business and business activity; and 2) estimate effects of increasing the duration of the summer pool and increasing the elevation of winter pool on business activity.

DATA COLLECTED

Data are being collected according to the methodology outlined in Study Plan 12(h) approved by FERC on April 17, 2009.

- As of November 1, 2009, survey clerks have completed 72 sampling days of the proposed 168 sampling days and 21 sampling days of the proposed 42 sampling days at public boat ramps.
- As of November 1, 2009, survey clerks have completed 444 interviews with recreationists on Lake Martin. Survey clerks have completed an additional 52 interviews at public boat ramps.
- The property owner questionnaire has been finalized and mailed to the sample.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

OTHER MODIFICATIONS TO STUDY PLAN

The property owner questionnaires, originally scheduled to be mailed in August 2009, have been delayed to November 2009 due to the questionnaire review process, pre-testing the questionnaire, and problems with the web-based version of the survey. This delay should not affect study results or the approved schedule.

STUDY PLAN 13
SHORELINE MANAGEMENT PROGRAM

STUDY GOALS AND DESCRIPTION

Alabama Power is developing a Shoreline Management Program (SMP) for the Martin Project that will identify project land uses and project land use classifications, determine Lake Martin shoreline management policies, reiterate the permitting program regulations, and establish and promote best management practices around Lake Martin.

The general methodology for development of the SMP involves consultation with MIG 4 members. This includes:

- Meeting with MIG 4 members to discuss the proposed changes in the land classification maps;
- Reviewing the steps in developing a SMP;
- Conducting a literature review of BMPs;
- Developing BMPs and their application to different land classifications;
- Reviewing the Martin Guidelines for Shoreline Permitting and discussing proposed modifications;
- Incorporating the Aquatic Nuisance Vegetation and Vector Control Program, Wildlife Management Program, and RTE surveys;
- Reviewing Alabama Power policies for Martin;
- Developing a draft for stakeholder review and comment; and
- Developing a Final SMP for FERC approval.

DATA COLLECTED

Data are being collected according to the methodology outlined in Study Plan 13 approved by FERC on April 17, 2009.

- Alabama Power has accepted initial comments on the proposed land reclassifications.
- Alabama Power developed and distributed an annotated outline of the SMP.
- Alabama Power held a MIG 4 meeting on June 10, 2009 at which they introduced the new shoreline classification system, reviewed the proposed shoreline classification maps, and reviewed the shoreline permitting program.
- Alabama Power held a MIG 4 meeting on October 21, 2009 at which they introduced the shoreline conservation policy and various other shoreline management policies.
- Alabama Power distributed a revised SMP draft in November 2009 that included the text associated with the various shoreline management policies and the permitting program.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

OTHER MODIFICATIONS TO STUDY PLAN

At this time, Alabama Power is not proposing any modifications to Study Plan 13 approved by FERC on April 17, 2009.

STUDY PLAN 14
RECREATION PLAN

STUDY GOALS AND DESCRIPTION

Alabama Power is developing a Recreation Plan for the Martin Project that will describe the Project and existing facilities, discuss current and future use estimates and facility inventories, and propose plans for recreational facilities in the future. In addition, the plan will discuss the process of marking hazards in Lake Martin with buoys and the role of the Alabama Marine Police.

The general methodology for development of the SMP involves consultation with MIG 4 members. This includes:

- Meeting with MIG 5 to discuss desired conditions on Lake Martin.
- Determining existing and potential future use (based on data to be collected in 2009).
- Determining what enhancement measures are needed and when and who is responsible.
- Determining the opportunity to provide hunting lands at Martin.
- Discussing future of the hazard marking program.
- Developing a Draft and Final Recreation Plan.

Alabama Power is also using the Recreation Plan Development Process as described in Study Plan 14.

DATA COLLECTED

Data are being collected according to the methodology outlined in the study plans approved by FERC on April 17, 2009.

- Alabama Power distributed the 1st draft of the MIG 5 Working Documents (including the Recreation Plan Development Process Form).
- Alabama Power held a meeting with MIG 5 members on August 6, 2009 at which they reviewed the recreation plan development process, draft solution principles, and a draft recreation vision statement for the Martin Project. Alabama Power also reviewed the draft inventory information with MIG 5 members.
- Alabama Power held a meeting with MIG 5 members on October 21, 2009 at which they reviewed a revised Recreation Plan Development Process Form that included a revised recreation vision statement and revised inventory information. Alabama Power also reviewed all ideas for new or different access, requested facility upgrades/enhancements, and requested new facilities or management actions they have received thus far in the process.
- Alabama Power distributed a revised Recreation Plan Development Process Form in November 2009. Comments were requested via e-mail.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

OTHER MODIFICATIONS TO STUDY PLAN

Alabama Power is not proposing any modifications to Study Plan 14 approved by FERC on April 17, 2009.

STUDY PLAN 15
CULTURAL RESOURCES PROGRAMMATIC AGREEMENT (PA) AND HISTORIC PROPERTIES MANAGEMENT PLAN (HPMP)

STUDY DESCRIPTION
The goals and objectives of the study include development of a Draft Programmatic Agreement (PA) among the Federal Energy Regulatory Commission (Commission), Alabama State Historic Preservation Officer (SHPO), Licensee (The Alabama Power Company (Alabama Power)) and federally-recognized tribes for managing Historic Properties that may be affected by a new license issuing to Alabama Power for the continued operation of the Martin Project.

The goals and objectives of this study include development of the Historic Properties Management Plan (HPMP) for the Martin Project to be made part of the Draft Programmatic Agreement (PA) which will provide a description of the Project, historic properties identified as of the date of the Draft PA, anticipated effects, and Alabama Power's proposed measures to protect historic properties.

DATA COLLECTED
Alabama Power has held four meetings in 2009 (April, June, July, and October) with the Alabama State Historical Commission, FERC staff, and interested Native American tribes. Three of the four meetings to date were focused on the Section 106 process, and the relicensing process and existing archeological and cultural information. The July meeting included a session on GIS training to prepare for use of GIS in determining criteria for selection of study sites. The October meeting included a site visit around the lake to determine areas that may require Phase 1 review. Additional meetings are planned for late fall 2009 and early 2010.

ADHERENCE TO SCHEDULE APPROVED APRIL 17, 2009?

☒ YES ☐ NO

MODIFICATIONS TO STUDY PLAN
Alabama Power is not proposing any modifications to Study Plan 15 approved by FERC on April 17, 2009.