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December 10, 2024

Mr. Walter L. Thomas, Secretary Alabama Public Service Commission RSA Union Building 100 North Union Street, Suite 950 Montgomery, Alabama 36104

Re: Rate CNP, Final Environmental Compliance Plan Docket Nos. 18117 and 18416

Dear Mr. Thomas:

Alabama Power Company submits for filing the final Environmental Compliance Plan under Rate CNP, Subpart C. The final version of the plan includes the following:

- A report on legislative and regulatory matters relevant to Alabama Power's environmental compliance activities;
- An estimate of the compliance-related capital and O&M expenditures for the 2025-2029 environmental cost years, including projections for the cost of removal for coal combustion residual facilities; and
- A detailed summary of capital expected to be placed in service during the upcoming 2025 environmental cost year, as well as expected O&M expenditures for the year.

If the Commission or its Staff has any questions concerning this information, please do not hesitate to contact the undersigned.

Yours very truly,

voses Hd. Feog Moses Feagin

Enclosures

cc: Commissioner Twinkle Andress Cavanaugh Commissioner Jeremy H. Oden Commissioner Chris V Beeker III

Secretary of the Alabama Public Service Commission Mr. Walter L. Thomas, Jr.

Executive Director and Chief Administrative Law Judge The Honorable John A. Garner

Director, Electricity Policy Division Mr. John D. Free (5)

Office of the Attorney General Ms. Olivia W. Martin

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REGULATORY AND LEGISLATIVE UPDATE

The following discussion provides a regulatory and legislative update on environmental issues affecting Alabama Power Company (Alabama Power or the Company), including regulations and requirements associated with interstate transport, ambient air quality standards, regional haze (visibility), hazardous air pollutants, greenhouse gases, water initiatives, toxics release inventory, and coal combustion residuals. Environmental compliance requirements affecting Alabama Power are administered by the U.S. Environmental Protection Agency (EPA), the Alabama Department of Environmental Management (ADEM), and other state and local authorities. In addition to the updates provided, Alabama Power has included customary background information on several regulatory and legislative programs that have given and continue to give rise to the environmental compliance strategies employed by the Company. While the federal statutes regarding environmental compliance have not been substantially altered in many years, new regulations, as well as changes to existing regulations, continue to be promulgated in order to implement various provisions of those laws. Major EPA regulations for the electric utility industry often undergo judicial review, and courts play a significant role in the final outcome of regulations through their interpretation of the relevant federal statutes as well as their review of the implementing regulations.

ACID RAIN PROGRAM REQUIREMENTS

The Acid Rain Program is implemented under Title IV of the Clean Air Act (CAA). This program covers fossil fuel-fired power plants across the contiguous United States and places restrictions on the emissions of sulfur dioxide (SO_2) and nitrogen oxides (NO_x), which can lead to the formation of acid rain. For SO₂, the Acid Rain Program established a permanent nationwide cap on the total cumulative amount of SO₂ that may be emitted by electric generating units. The program set a specific number of SO₂ "allowances" (one allowance being equivalent to one ton of emitted SO₂) to facilitate achievement of the national goal for SO₂ reductions. The current statutory SO₂ national cap is 8.95 million tons annually, or about one-half of the emissions from the power sector in 1980. Allowances can be banked, traded and sold. This market-based program allows affected sources to design and implement compliance strategies at lower costs while achieving the desired environmental goals. Each generating plant affected by the Acid Rain Program must have sufficient allowances to cover its annual SO₂ emissions. The program requires rigorous emissions monitoring and reporting protocols to ensure accuracy and accountability, to support the allowance strategies for the Acid Rain Program have included switching to lower sulfur coals; purchasing, trading and banking SO₂ allowances; and installing emissions control equipment. Since the program began in 1995, Alabama Power has held sufficient SO₂ allowances to cover its annual SO₂ emissions and comply with the Acid Rain Program.

The requirements of the Acid Rain Program were implemented in two phases. Phase I requirements became effective for SO₂ on January 1, 1995. EPA allocated SO₂ allowances to Phase I units using a historical fuel consumption baseline (i.e., heat input to the boiler in British thermal units (**Btus**)) and a specific emission rate of 2.5 pounds of SO₂ per million Btus of heat input. Due to litigation involving the final rules, the effective date for Phase I NO_x compliance was delayed one year until January 1, 1996. Unlike SO₂ emissions, NO_x emissions under the Acid Rain Program are not capped utilizing an allowance trading system. Rather, the Acid Rain Program imposes a NO_x emissions rate requirement that applies according to categories of coal-fired boiler types. For example, the Phase I limits for NO_x are 0.50 and 0.45 pounds of NO_x per million Btus of heat input for dry-bottom wall-fired and tangentially fired boilers, respectively.

Alabama Power's coal-burning units have complied with the Acid Rain Program annual NO_x emission rate limits since those limits became effective in 1996.

The Acid Rain Program's Phase II requirements for both SO_2 and NO_x became effective on January 1, 2000. The limits for Phase II affect more units and are more stringent than those under Phase I. EPA allocated SO_2 emission allowances (again based upon specific formulas) to all affected units above 25 megawatts in size with an allocation factor of 1.2 pounds of SO_2 per million Btus of heat input. The final Phase II NO_x rules set the limits for the three common boiler types owned and operated by Alabama Power at 0.46 pounds of NO_x per million Btus of heat input for wall-fired boilers, 0.40 pounds of NO_x per million Btus of heat input for tangentially fired boilers, and 0.68 pounds of NO_x per million Btus of heat input for cell burner-fired boilers. Alabama Power's compliance strategies for the Acid Rain Program NO_x limitations have included installing low- NO_x burner and combustion control technologies and selective catalytic reduction systems in conjunction with NO_x emission rate averaging plans.

AMBIENT AIR QUALITY STANDARDS

The cornerstone of Title I of the CAA is the establishment and attainment of the National Ambient Air Quality Standards (**NAAQS** or **standards**) for the following six pollutants: ozone, particulate matter, sulfur dioxide, lead, carbon monoxide and nitrogen dioxide. The CAA requires that EPA determine what concentration of each of these six specific pollutants in the ambient (i.e., outside) air is protective of human health and welfare within a margin of safety. Fossil-fired power plants emit some of these air pollutants directly, while some of these pollutants can also combine with other substances in the atmosphere to form "secondary" pollutants such as "fine" particulate matter and ozone.

In Alabama, ADEM is responsible for ensuring the state meets the NAAQS and establishes a State Implementation Plan (**SIP**) to carry out that obligation. EPA must approve these SIPs, and if a state fails to adopt a SIP, EPA must promulgate a Federal Implementation Plan (**FIP**). Geographic areas where ambient levels of any of these pollutants exceed the NAAQS are designated as "nonattainment" areas. Every state that has nonattainment areas is required by the CAA to develop and implement an additional nonattainment plan that includes emission control strategies designed to bring these areas into attainment with the NAAQS that are not being met.

Once EPA sets a NAAQS for a pollutant, the CAA requires EPA to review the NAAQS every five years to determine if a revision is necessary. Since 1997, these reviews have resulted in multiple, significant changes to the ozone, lead, particulate matter, nitrogen dioxide and sulfur dioxide NAAQS. The majority of costs for emission controls incurred by Alabama Power are attributable to the implementation of these revised air quality standards.

1-Hour Ozone Standard

Historically, the most pervasive and difficult ambient air pollutant to reduce has been ozone, with many major urban areas across the country (including Birmingham) failing to meet the 1-hour ozone standard (0.12 parts per million or **ppm**) for many years. As discussed below, EPA established a more stringent 8-hour ozone standard in 1997 (the **1997 8-hour ozone standard**), and eventually revoked the 1-hour standard in June 2005 (the terms **1-hour** and **8-hour** refer to the time period over which the air quality monitor data is averaged). However, emission reduction regulations addressing attainment of the 1-hour ozone standard remain effective under the Alabama SIP for Birmingham ozone and currently affect one Alabama Power plant.

By way of background, Jefferson and Shelby Counties were originally classified as a 1-hour ozone nonattainment area (the **Birmingham ozone nonattainment area**) by EPA on March 3, 1978. The CAA required most states with then existing 1-hour ozone nonattainment areas to submit by November 1994 revised SIPs that demonstrated attainment of the standard. As part of this process many states agreed to participate in a collaborative effort to evaluate regional controls for NO_x emissions that could contribute to attainment of the ozone standard across an entire region (for Alabama, the eastern United States).

The collaborative effort led to the formation of the Ozone Transport Assessment Group (**OTAG**), an organization of 37 states east of and bordering the Mississippi River, plus Texas, Kansas, Nebraska, Oklahoma, North Dakota and South Dakota. OTAG evaluated certain regional NO_x and volatile organic compounds (**VOC**) controls and their potential for reducing ozone in the eastern United States. OTAG presented its final recommendations to EPA in June 1997. The final recommendations presaged EPA's Regional NO_x SIP Call rule (discussed in the next section), which required additional NO_x emission reductions from utilities (beyond those required by the Acid Rain Program) and from large industrial sources as a measure to address regional transport of this ozone precursor.

The CAA prescribed a 1-hour ozone standard attainment date of 1993 for the Birmingham ozone nonattainment area. Birmingham recorded air quality data that demonstrated attainment of the standard in 1993, and ADEM submitted a request to EPA in March 1995 to redesignate the Birmingham area to attainment for the 1-hour ozone NAAQS. However, before EPA acted on ADEM's request, Birmingham-area ozone monitors recorded ozone air quality data that violated the 1-hour standard. EPA subsequently denied ADEM's redesignation request in September 1997, and later in 2000 issued a **SIP Call** requiring Alabama to submit a plan that would provide for

attainment of the 1-hour ozone standard in Birmingham. ADEM submitted a 1-hour ozone SIP in November 2000, and EPA approved the plan in November 2001. EPA allowed Alabama until May 2003 to enforce the SIP requirements needed to attain the 1-hour ozone standard. ADEM's rules addressing the 1-hour ozone standard impose a limit of 0.21 pounds of NO_x per million Btus of heat input (over a 30-day rolling average) during the ozone season for Miller Units 1-4. To meet this mandate, Alabama Power principally relies on selective catalytic reduction (**SCR**) technology.

On March 12, 2004, EPA approved the redesignation of the Birmingham ozone nonattainment area to 1-hour ozone attainment based on the air quality data recorded for the area from 2001-2003. Prior to this approval, the Sierra Club had initiated litigation in the United States Court of Appeals for the District of Columbia Circuit (**D.C. Circuit**) seeking higher (i.e., more stringent) nonattainment status for some areas across the country, including Birmingham. The D.C. Circuit concluded that EPA failed to exercise its duty to make a final ozone determination for classifying Birmingham (and other areas) by May 15, 1994, as prescribed by the CAA. In November 2002, in response to the Court's order, EPA determined that the Birmingham area did, in fact, attain the 1-hour ozone standard by November 15, 1993, the date required by the CAAA of 1990. Consequently, in 2002 the Birmingham area retroactively was found to have met the 1-hour standard as of 1993. Birmingham again achieved the 1-hour standard in March 2004, and the area was redesignated to attainment. Unfortunately, attainment was short lived, as in April 2004 the area was designated ozone nonattainment for the more stringent 1997 8-hour ozone standard (discussed below).

NO_x Budget Trading Program

In September 1998, EPA issued the Regional NO_x SIP Call rule, which required 22 states (including Alabama) and the District of Columbia to submit SIPs addressing regional transport of air pollution that contributes to the cross-border formation of ozone in the eastern United States. The Regional NO_x SIP Call rule instituted a cap-and-trade program and was also referred to as the NO_x Budget Trading Program (**NBP**). The NBP required NO_x emission reductions during the ozone season from power plants and other large industrial sources. The allowable emissions levels were based upon projected electricity generation for 2007 (using EPA assumptions that understated actual growth in some cases) and NO_x emission rates of approximately 0.15 pounds of NO_x per million Btus of heat input for coal-fired units.

Final NBP SIPs were originally required by September 1999, with the final compliance deadline for utilities and large industrial sources set for May 1, 2003. However, the rule was challenged and in May 1999, the D.C. Circuit issued an order staying the September 1999 SIP submittal deadline indefinitely. In March 2000, the Court largely upheld the Regional NO_x SIP Call rule and cleared the way for EPA to implement the program. Even so, the Court vacated the rule for Georgia, Missouri and Wisconsin, and EPA was required to submit a revised rule for the northern two-thirds of Georgia and the eastern half of Missouri. As part of its February 2002 proposal, EPA excluded the southern one-third of Alabama from the NBP because modeling results did not show an impact on any out-of-state nonattainment area from sources in these regions.

The litigation before the D.C. Circuit resulted in an extension of the NBP compliance date from May 1, 2003 to May 31, 2004 for utilities and large industrial sources in all remaining affected states. The Alabama NBP SIP rules were finalized in February 2001 and approved by EPA in July 2001. To meet the NBP compliance requirements, Alabama Power units in the affected portion of the state relied on SCRs and combustion controls and trading of allowances. The NBP was supplanted in 2008 with the promulgation of the Clean Air Interstate Rule (discussed later), which ensured continuing NO_x emission reductions from power plants for the purpose of further reducing the downwind formation of ozone.

8-Hour Ozone Standards

As discussed, EPA promulgated a new 8-hour ozone NAAQS in 1997. The new standard implemented changes to the concentration level, the averaging period and the calculation methodology, resulting in significantly more stringent requirements than the 1-hour standard.

On May 14, 1999, the D.C. Circuit remanded the 1997 8-hour ozone standard to EPA to address issues involving constitutionality, the nonattainment classification scheme, and ultraviolet-B (**UVB**) health "disbenefits." EPA appealed this decision to the United States Supreme Court. On February 27, 2001, the Supreme Court upheld the constitutionality of the standard, but rejected EPA's implementation plan for the 1997 8-hour ozone standard and remanded the standard to the D.C. Circuit for further review. On March 26, 2002, the D.C. Circuit dismissed all remaining challenges to the standard. On January 6, 2003, EPA published a final rule that responded to the D.C. Circuit remand related to the beneficial effects of ozone in preventing UVB-induced skin cancers and cataracts. EPA determined that these effects were too uncertain to warrant a change to the standard.

As noted above, in April 2004, just one month after the Birmingham area came into attainment with the 1-hour ozone standard, EPA designated the Birmingham area nonattainment for the 1997 8-hour ozone standard, with an attainment deadline of June 15, 2009. The Alabama nonattainment SIP containing 1997 8-hour ozone attainment demonstrations and control requirements for the area

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was due June 15, 2007. However, ozone monitoring data for 2003-2005 showed that the Birmingham area was achieving the 1997 8-hour standard. ADEM requested that EPA redesignate the area to ozone attainment based upon the most current air quality data. EPA approved the request and the Birmingham area became attainment for the 1997 8-hour ozone standard effective June 12, 2006. This action eliminated the need for an 8-hour attainment SIP for Birmingham, but a **Maintenance Plan** was required under the CAA, and one was approved as part of the redesignation process. The Maintenance Plan demonstrates that the standard will continue to be met following the attainment redesignation.

Subsequent to the EPA ozone attainment redesignation, a Birmingham area air quality monitor began recording violations of the 1997 8-hour standard. This event required ADEM to activate the Maintenance Plan to address the ozone monitor violations (i.e., ADEM must take actions to ensure the standard would again be attained). ADEM revised air permits for two industrial facilities, requiring additional NO_x emission reductions to satisfy Maintenance Plan provisions.

Even as many areas in the United States were still struggling to meet the 1997 8-hour ozone standard, EPA once again tightened the ozone standard. On March 27, 2008, EPA established the **2008 8-hour ozone standard**, which increased the stringency of the 8-hour ozone standard from 0.08 ppm (effectively 0.084 ppm due to rounding) to 0.075 ppm. Legal challenges were filed by industry groups as well as the State of Mississippi, charging that the 2008 standard was overly stringent. On the other hand, numerous other states and environmental groups claimed that the 2008 standard was not stringent enough. The cases were consolidated at the D.C. Circuit as *Mississippi v. EPA*. The State of Alabama filed a motion to intervene in support of the State of Mississippi. In early 2009, EPA requested the D.C. Circuit suspend briefing pending an EPA decision whether to reconsider the 2008 standard. The Court granted this request in March 2009.

In September 2009, EPA announced that it would reconsider the 2008 ozone standard. On January 6, 2010, EPA proposed to make the standard even more stringent by lowering the level from 0.075 ppm to a level in the range of 0.060 to 0.070 ppm. Based on ozone monitoring data at the time, a level of 0.070 ppm was projected to result in 75 percent of monitored counties across the country being nonattainment; a level of 0.060 ppm was projected to result in 96 percent of monitored counties being designated as nonattainment.

Area designations for the 2008 ozone standard were initially slated for March 2010. However, EPA announced its intention to stay that process and finalize designations for a potentially revised ozone standard. On September 2, 2011, after numerous delays finalizing a revision, the President instructed EPA to withdraw its reconsideration of the 2008 ozone standard. EPA subsequently resumed implementation of the 2008 ozone standard of 0.075 ppm and finalized initial designations on April 30, 2012. No areas in Alabama were designated as nonattainment for the 2008 standard. Litigation of the 2008 standard, which had been held in abeyance, resumed. On July 23, 2013, the D.C. Circuit denied the petitions for review by industry, state and environmental groups challenging the 2008 standard. Subsequently, petitions were filed requesting Supreme Court review of the standard, but on September 29, 2014, the Supreme Court denied these petitions.

When EPA missed its five-year deadline for reviewing the 2008 ozone standard for possible revision, environmental groups filed a lawsuit in June 2013 to force EPA to complete the review. On April 30, 2014, the United States District Court in Northern California ordered EPA to propose a rule by December 1, 2014, and issue a final rule by October 1, 2015. On November 26, 2014, EPA issued a proposed rule to revise the 8-hour ozone standard down to a level between 0.070 and 0.065 ppm, while also accepting comments on levels down to 0.060 ppm as well as retaining the

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2008 standard. On October 1, 2015, EPA finalized a rule establishing a new ozone standard of 0.070 ppm (the **2015 ozone standard**). Based on ozone monitoring data for 2013–2015, 15 percent of monitored counties in the United States exceeded the new ozone standard of 0.070 ppm; however, all of Alabama met the standard based on 2013–2015 monitoring data. On September 30, 2016, ADEM informed EPA that all monitors in the State of Alabama were meeting the ozone standards and requested that all counties in Alabama be designated as attainment for the 2015 ozone standard. On November 6, 2017, EPA announced initial designations for the 2015 ozone standard for most areas of the United States including the designation of the entire State of Alabama as "attainment/unclassifiable."

Litigation over the 2015 ozone standard was initiated, and on August 23, 2019, the D.C. Circuit issued an opinion concerning challenges to the standard. The Court upheld the primary healthbased standard of 0.070 ppm, and in doing so, rejected arguments from both industry and environmental petitioners that the standard was either too restrictive or not protective enough. However, the Court remanded for reconsideration the secondary welfare-based standard, holding that EPA did not adequately explain its departure from certain recommendations by the Clean Air Scientific Advisory Committee (CASAC), an external panel of experts that makes recommendations to EPA. On remand, EPA was directed to address this deficiency and justify its decisions regarding the secondary ozone standard.

As part of its five-year NAAQS review cycle of the ozone standards, EPA on July 13, 2020, proposed to retain without revision both the primary and secondary ozone NAAQS. On December 23, 2020, EPA finalized its review of the ozone NAAQS, retaining the current primary and secondary ozone 8-hour standards and its level of 0.070 ppm. The rule became effective December 31, 2020. Regarding the remand of the secondary standard noted above, EPA's analysis in the

final rule concluded that the current secondary standard is requisite to protect the public welfare from adverse effects of ozone in ambient air and should be retained without revision. Petitions for reconsideration of EPA's ozone NAAQS rule were filed as well as petitions filed in the D.C. Circuit challenging the 2020 final rule. The D.C. Circuit has held these challenges in abeyance while EPA reconsiders the rule. After a pause to examine the science and record from the 2020 rulemaking, the CASAC resumed its review of the standard in September 2022. In June 2023, the CASAC recommended EPA lower the primary ozone NAAQS based on its review of EPA's revised policy assessment for reconsideration of the ozone standards. The CASAC also recommended that EPA conduct additional risk analyses that could support more stringent standards. On August 21, 2023, EPA announced it will consider the advice and recommendations of the CASAC to ensure the standards reflect the most current and relevant science. Believing a full review of the ozone NAAQS is necessary, EPA has paused reconsideration of the 2020 ozone NAAQS decision to initiate this review, which will incorporate the information gathered during the reconsideration process.

Fine Particulate Standards

On July 18, 1997, EPA promulgated new ambient air quality standards for fine particulate matter. Fine particulate matter is a general term used for a mixture of solid particles and liquid droplets in the air that have aerodynamic diameters less than 2.5 micrometers (**PM2.5**). The 1997 standards established 24-hour and annual standards for PM2.5. The 1997 PM2.5 standards were delayed by challenges in various courts but were ultimately largely upheld. Specifically, as with the 1997 8-hour ozone standard, the D.C. Circuit remanded, on constitutional grounds, the 1997 PM2.5 standards to EPA for redevelopment. EPA appealed the decision to the Supreme Court, which upheld the constitutionality of the PM2.5 standards and returned the case to the D.C. Circuit for consideration of whether the levels of the standards properly reflect what is requisite (i.e.,

"sufficient, but not more than necessary") to protect public health. On March 26, 2002, the D.C. Circuit dismissed all remaining challenges to the 1997 PM2.5 standards.

In February 2004, ADEM recommended PM2.5 nonattainment areas to EPA. EPA ultimately disregarded some of ADEM's recommendation and included all of Jefferson and Shelby Counties in the final nonattainment designations, which became effective April 5, 2005. Small areas of Walker and Jackson Counties that contain electric power generating plants also were designated nonattainment for the annual PM2.5 standard (Jackson County is part of the larger Chattanooga, Tennessee nonattainment area).

After extensive analysis, ADEM developed an annual PM2.5 attainment SIP for the Birmingham area and submitted it to EPA in May 2009. Primarily, ADEM's SIP requires PM2.5 emission reductions from local facilities in the vicinity of the Birmingham air quality monitors that are violating the standard and relies on utility emission reductions realized from another EPA emission program, the Clean Air Interstate Rule (discussed below).

On September 21, 2006, EPA issued a revision to the PM2.5 standards. With this action, EPA retained the annual standard, while lowering the 24-hour PM2.5 standard by nearly 50 percent (from 65 to 35 micrograms per cubic meter). On October 8, 2009, EPA issued final area designations for the 2006 24-hour PM2.5 standard. The Birmingham area was designated nonattainment for this standard with the geographic footprint identical to the annual PM2.5 standard nonattainment area (i.e., Jefferson, Shelby and part of Walker Counties). ADEM's SIP, which was designed to bring the area into attainment with the 2006 24-hour PM2.5 standard, was expected to be submitted to EPA by December 2012. However, air quality data from 2007-2009 showed attainment of the 24-hour standard of 35 micrograms per cubic meter. Accordingly,

ADEM prepared and in April 2010 submitted to EPA a 24-hour PM2.5 Redesignation Request and Maintenance Demonstration for Birmingham. In a final action in September 2010, EPA determined that the Birmingham area had indeed attained the 2006 24-hour PM2.5 standard; however, EPA did not officially redesignate Birmingham to attainment or approve the Similarly, air quality data for the 2008-2010 period showed that the Maintenance Plan. Birmingham area was also meeting the 1997 annual PM2.5 standard of 15 microgram per cubic meter. ADEM requested redesignation for that standard in March 2011. On June 29, 2011, EPA determined that the Birmingham area had attained the 1997 annual PM2.5 standard, but similar to its action in September 2010, the agency did not redesignate the area to attainment. These EPA determinations suspended the requirements for ADEM to submit an attainment demonstration and other SIP elements as long as the Birmingham area continued to meet the standard. Until redesignation to attainment was finalized by EPA, however, the most burdensome requirements of nonattainment were not relieved for regulated sources. On November 10, 2011, EPA proposed to redesignate the Birmingham area to attainment for both the 24-hour and the annual PM2.5 standards. On January 22, 2013, EPA published the final rule redesignating the Birmingham area to attainment for the 1997 annual PM2.5 NAAQS. On January 25, 2013, EPA published the final rule redesignating the Birmingham area to attainment for the 2006 24-hour PM2.5 NAAQS.

Litigation of the 2006 PM2.5 standards was initiated in the D.C. Circuit. Numerous states and environmental groups challenged the levels of the standard, specifically claiming that EPA should have increased the stringency of the annual standard. In February 2009, the Court found that EPA inadequately explained its actions concerning the 2006 24-hour PM2.5 standard and remanded to EPA its decision to retain the annual standard. EPA announced plans to accelerate the typical five-year NAAQS review cycle for the PM standards. Subsequently, on June 29, 2012, EPA proposed to replace the annual PM2.5 standard with a more stringent standard. On December 14, 2012,

EPA finalized revisions to the NAAQS for PM2.5, lowering the annual standard to 12 micrograms per cubic meter while leaving 24-hour standard unchanged. In March 2013, several industries filed petitions for judicial review of the new 2012 PM2.5 standards, but the D.C. Circuit upheld them on May 9, 2014.

In an April 16, 2013 memorandum, EPA informed states that recommendations for areas that do not meet the 2012 PM2.5 annual standard were due by December 13, 2013, and that EPA would finalize the designations by December 13, 2014. EPA also indicated that areas not meeting the standard would have six years after designation to come into attainment. With EPA's concurrence, ADEM did not submit its recommendations by December 13, 2013, in order to incorporate 2013 air quality data in its analysis. On March 3, 2014, and including this most recent data, the State of Alabama recommended to EPA that all counties in Alabama be designated as attainment for the 2012 annual PM NAAOS. On August 19, 2014, EPA informed Alabama that it intended to designate all areas of the state as "attainment/unclassifiable" except for the Phenix City area in Russell County. EPA's reasoning was that Phenix City is part of the metropolitan area that includes Columbus, Georgia, and the Georgia monitor had insufficient air quality data upon which to base a determination. EPA deferred the designation for the Columbus-Phenix City area to allow time for adequate air quality monitoring needed for a designation. On January 15, 2015, EPA finalized designations for most areas in the United States. All of Alabama was designated attainment for the 2012 PM2.5 annual standard, except for Russell County where designation was deferred. After the collection of necessary air quality monitoring data, EPA ultimately designated Russell County attainment for the 2012 PM2.5 annual standard on April 7, 2015, completing designations for Alabama.

In a final rule issued on September 18, 2017, EPA determined that Alabama's SIP satisfies certain required infrastructure elements relating to the implementation, enforcement and maintenance of

the 2012 PM2.5 annual NAAQS. On September 25, 2018, EPA approved Alabama's SIP concerning interstate transport obligations for the 2012 PM2.5 annual standard. With this action, Alabama's SIP demonstrates that air emissions from Alabama do not significantly contribute to nonattainment or interfere with maintenance of the 2012 PM2.5 standard in any other state, and therefore further emissions reductions from Alabama sources are not required to satisfy Alabama's interstate transport obligations.

As part of the required review cycle of the PM NAAQS, on December 18, 2020, EPA finalized its review retaining all NAAQS for particulate matter. Specifically, EPA retained all of the following standards: the annual PM2.5 primary standard of 12 micrograms per cubic meter and 24-hour PM2.5 primary standard of 35 micrograms per cubic meter; the 24-hour PM10 primary standard (PM10 refers to the slightly larger category of particulates with an aerodynamic diameter of less than 10 micrometers) of 150 micrograms per cubic meter; the annual secondary PM2.5 standard of 15 micrograms per cubic meter; and the secondary standards for 24-hour PM2.5 and PM10 (which are the same as the corresponding primary standards). Petitions for reconsideration of EPA's PM NAAQS rule, as well as petitions in the D.C. Circuit challenging the final rule, were subsequently filed. On June 10, 2021, EPA announced that it would reconsider the final rule to retain the PM NAAOS and by order issued October 1, 2021, the D.C. Circuit held in abeyance the cases challenging the 2020 rule. On January 27, 2023, EPA published a proposed revision to the 2020 PM NAAQS that included lowering the annual PM2.5 standard to a level within the range of 9 to 10 micrograms per cubic meter, while retaining other PM2.5 and PM10 standards. On March 6, 2024, the final reconsideration of the 2020 PM NAAQS was published in the Federal Register. EPA lowered the primary annual PM2.5 standard to 9.0 micrograms per cubic meter, but retained the current primary and secondary 24-hour PM2.5 and PM10 standards and the secondary annual PM2.5 standard. The new lower primary annual PM2.5 standard could create nonattainment areas

in Alabama. States must submit recommendations to EPA by February 2025, and EPA must designate areas either attainment or nonattainment no later than February 2026. Industry groups and states have filed petitions for review in the D.C. Circuit, and those cases remain pending. As in the past, the courts are expected to continue to play a significant role in the establishment and implementation of the PM NAAQS.

Clean Air Interstate Rule

EPA signed the Clean Air Interstate Rule (CAIR) on March 10, 2005. The rule required major reductions—far beyond those required by the Acid Rain Program—of SO_2 and NO_x emissions to address the transport of emissions in the eastern United States that significantly interfere with attainment of the PM2.5 and ozone standards in downwind states under the CAA's "good neighbor" provision.

For affected states, CAIR set permanent caps on emissions and provided for three separate marketbased allowance trading programs: annual SO₂, annual NO_x and seasonal NO_x. Implementation of the emission reductions from CAIR involved two phases. The first phase of NO_x compliance began on January 1, 2009 and called for an approximate 50 percent reduction from 2003 NO_x annual and seasonal emissions in CAIR-affected states. The first phase of SO₂ compliance began on January 1, 2010, requiring an approximate 50 percent further reduction in annual SO₂ emissions. The second phase of NO_x and SO₂ compliance was set to begin in 2015 and required an approximate 65 percent reduction in NO_x and 70 percent reduction in SO₂ from 2003 emissions or allocations. ADEM initially submitted the Alabama CAIR SIP rules to EPA for approval in September 2006. ADEM submitted CAIR SIP updates in November 2006 and March 2007 to comply with EPA revisions to the federal CAIR rule. EPA approved Alabama's CAIR SIP in October 2007.

Various states and regulated industries filed petitions challenging particular aspects of CAIR in the D.C. Circuit. In July 2008, the Court vacated CAIR in its entirety and remanded it to EPA for further action. The Court found EPA's CAIR approach to be "fundamentally flawed" and directed EPA to redo its analysis "from the ground up," citing foundational problems with basic aspects of the rule such as trading, maintenance of NAAQS, compliance deadlines, and leveraging Acid Rain Program allowances.

In response to an EPA petition for rehearing of the CAIR vacatur, the Court requested briefs from petitioners and EPA regarding harm to the public health that would be caused by vacatur of CAIR. In December 2008, just days before compliance was set to begin, the Court decided to remand CAIR to EPA without vacatur, thereby leaving the rule and its compliance obligations in place until replaced by a new rule developed under remand. Therefore, compliance with the NO_x and SO₂ elements of CAIR began on January 1, 2009, and January 1, 2010, respectively, as specified in the original EPA rule. Subsequent to the remand decision, EPA stated that it intended to propose a CAIR replacement rule in early 2010 and finalize that rule in early 2011. The "on, off, and back on again" CAIR, coupled with an unknown (at the time) CAIR replacement rule, was a significant complicating factor for Alabama Power in compliance planning—especially considering the long lead times that many emission control projects require. In addition, emission reductions realized from CAIR were being relied on by ADEM in the Birmingham area annual and 24-hour PM2.5 SIPs and the Clean Air Visibility Rule (discussed in the next section).

As a result of these requirements, the Company deployed scrubbers, with the resulting SO₂ emission reductions intended not only to meet CAIR (and its replacement rule) and other programs (such as the Acid Rain Program), but also to address local attainment of the PM2.5 standards. Likewise, the Company's SCRs facilitate compliance with multiple regulatory programs.

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Cross-State Air Pollution Rule

On July 6, 2010, EPA signed a proposed replacement rule for CAIR. EPA proposed one approach, but also requested comments on two alternative approaches. All three approaches set an emissions limit (or budget) for each affected state and sought to obtain SO_2 and NO_x emission reductions from power plants in 31 eastern states. Compliance would begin in 2012, becoming more stringent in 2014. Under EPA's "preferred" approach, unlimited interstate trading for three separate allowance programs (annual SO_2 , annual NO_x and seasonal NO_x) would be allowed in 2012 and 2013, but would become limited in 2014.

On July 7, 2011, EPA finalized the proposed rule as the Cross-State Air Pollution Rule (CSAPR). CSAPR was designed to reduce PM2.5 and ozone levels in ambient air across a wide region of the country. SO_2 and NO_x react in the atmosphere to form PM2.5, whereas NO_x and VOCs react in the atmosphere to form ozone. These compounds can be transported long distances, thereby impacting downwind areas' ability to meet these NAAQS.

CSAPR was intended to replace CAIR in its entirety in response to the 2008 remand of CAIR by the D.C. Circuit. According to EPA, CSAPR affected 3,632 electric generating units at 1,074 fossil fuel-fired facilities in 28 eastern states. CSAPR set state budgets (i.e., mass emission limits) and allowed limited interstate trading. As with CAIR, there were three separate allowance programs affecting Alabama: annual SO₂, annual NO_x and seasonal NO_x. (Not all states are affected by all allowance programs.) Compliance with the first phase of CSAPR was scheduled to begin on January 1, 2012. However, on December 30, 2011, less than 48 hours before compliance was set to begin, the D.C. Circuit issued a stay of CSAPR and ordered EPA to continue to administer CAIR during the pendency of the stay. On August 21, 2012, the D.C. Circuit vacated CSAPR, holding that CSAPR exceeded EPA's statutory authority by requiring upwind states to reduce emissions by more than their own significant contribution to nonattainment in other states and failing to allow states the initial opportunity to implement, through SIPs, the emission reductions required by EPA in CSAPR. The Court directed EPA to continue to administer CAIR pending completion of a rulemaking to replace CSAPR with a valid rule.

On March 29, 2013, EPA filed a petition with the Supreme Court requesting review of the CSAPR vacatur, and on April 29, 2014, the Supreme Court reversed the D.C. Circuit's decision vacating CSAPR (while leaving the stay in effect) and remanded the case to the D.C. Circuit. On June 26, 2014, EPA filed a motion to lift the 2011 stay of CSAPR and requested that the D.C. Circuit toll compliance deadlines by three years. On October 23, 2014, the D.C. Circuit lifted the stay of CSAPR. Although some additional legal challenges remained unresolved, Phase I of CSAPR began on January 1, 2015, replacing CAIR and implementing new allowance programs for annual SO₂, annual NO_x and seasonal NO_x.

With respect to Phase II of CSAPR, on July 28, 2015, the D.C. Circuit held invalid certain Phase II CSAPR emission budgets. The Court ruled that the CSAPR Phase II SO₂ emission budgets for Alabama, Georgia, South Carolina and Texas were invalid, along with ozone season NO_x budgets for eleven states (Alabama was not a named state for the invalidated NO_x emission budgets). The Court remanded CSAPR to EPA, without vacating any part of the rule, to reconsider these emission budgets. Although the Court ruled that Alabama's CSAPR Phase II SO₂ budget was invalid (i.e., too stringent), ADEM had already chosen to implement state regulations as part of a CSAPR SIP with that stringent SO₂ budget in place so as to avoid the potential for further assessments of interstate transport of PM2.5 precursors and regional haze impacts on a state-by-state basis. While

this meant Alabama's SO₂ budget would not increase, as would have been allowed under CSAPR, the lower budget fulfills certain ADEM's interstate transport obligations and enables ADEM to rely on CSAPR to satisfy other obligations under the CAA regarding visibility (discussed below).

On November 17, 2015, EPA proposed further reducing ozone season NO_x emission budgets under CSAPR to address interstate transport of ozone pollution with respect to the 2008 ozone NAAQS. On September 7, 2016, the EPA Administrator signed the **CSAPR Update Rule**, which finalized new lower ozone season NO_x emission budgets for 22 states, including Alabama. The CSAPR Update Rule is the first time EPA has updated an existing program to address transport of air pollution following promulgation of a new air quality standard (i.e., the 2008 ozone NAAQS). The 2016 CSAPR Update Rule significantly decreased Alabama's budget of ozone season NO_x allowances by 58 percent. The new budgets became effective with the 2017 ozone season (i.e., May through September). ADEM has adopted a series of Alabama SIP revisions to implement the CSAPR Update Rule, which have been approved by EPA.

The CSAPR Update Rule was challenged in the D.C. Circuit by various environmental, state and industry petitioners. On September 13, 2019, the D.C. Circuit denied all challenges except for one claim that the rule was inconsistent with the CAA's attainment dates because the Update Rule would not fully resolve all upwind contributions to downwind nonattainment of the 2008 ozone standard by the statutory deadlines. In all other respects, the D.C. Circuit determined that EPA acted lawfully and rationally (or that the issue was not properly before the Court). The Court remanded the rule without vacatur for EPA to address the Court's opinion.

On December 6, 2018, EPA finalized the CSAPR Closeout Rule, which determined for 20 covered states (including Alabama) the CSAPR Update Rule would fully address interstate

transport obligations for the 2008 ozone standard by at least 2023. With this action, EPA determined that there was no obligation for Alabama and other states to establish additional requirements for sources in an effort to further reduce transported ozone related to the 2008 ozone standard. The CSAPR Closeout Rule was challenged in the D.C. Circuit and given the holding in the CSAPR Update Rule litigation, the Court vacated the CSAPR Closeout Rule without argument. As a result, EPA was obligated to reconsider as part of its review of the Update Rule whether additional reductions from sources in Alabama and other affected states must occur.

On October 15, 2020, EPA proposed the Revised CSAPR Update Rule to respond to the September 2019 D.C. Circuit remand and to fully address Alabama's and 20 other states' outstanding interstate pollution transport obligations for the 2008 ozone standard. On March 15, 2021, EPA finalized its Revised CSAPR Update Rule, relying on updated data and modeling to assess air quality. EPA's analysis in the final rule found that projected 2021 emissions from Alabama and eight other states are not "linked" to any nonattainment or maintenance receptors and therefore do not significantly contribute to nonattainment and/or maintenance problems in downwind states. As a result, EPA determined no further NO_x emission reductions from electric generating sources in Alabama are necessary to satisfy interstate transport obligations regarding the 2008 ozone standard.

EPA then turned its attention to interstate transport obligations arising from the more stringent 2015 ozone standard. Alabama submitted to EPA a timely SIP, asserting that no further reductions in NO_x or VOCs emissions from Alabama sources were necessary, and EPA proposed to approve Alabama's SIP on December 30, 2019. However, on February 22, 2022, EPA withdrew its proposed approval and proposed to disapprove Alabama's SIP provisions for interstate transport obligations regarding the 2015 ozone standard. EPA alleged updated modeling now links

emissions from Alabama to ozone concentrations in Texas. Subsequently on March 11, 2022, EPA proposed FIPs for Alabama and 26 other states that would require additional ozone season NO_x emission reductions beyond the CSAPR Update Rule in order to satisfy these states' interstate transport obligations with respect to the 2015 ozone standard.

Alabama withdrew its transport SIP on April 21, 2022, and simultaneously submitted a replacement SIP revision to address the new data and analysis EPA had relied on in its proposed disapproval. The EPA, however, found this SIP to be incomplete and published in the Federal Register a Finding of Failure to Submit an Interstate Transport SIP for the 2015 Ozone Air Quality Standard, affecting Alabama. On August 17, 2022, ADEM and the State of Alabama jointly filed in the U.S. Court of Appeals for the Eleventh Circuit (Eleventh Circuit) a petition for review of EPA's Finding of Failure to Submit. The petitioners dismissed this action after EPA rescinded its *Finding of Failure to Submit* and reviewed the substance of Alabama's replacement SIP submittal. On October 25, 2022, EPA proposed to disapprove Alabama's 2022 SIP submittal and on February 13, 2023, published its disapproval of twenty-one interstate transport SIP submissions, which included Alabama. On March 15, 2023, EPA also finalized the Federal Good Neighbor Plan, which significantly reduced Alabama's ozone season NO_x allowance budget. ADEM, the State of Alabama and Alabama Power subsequently filed in the Eleventh Circuit petitions for review of EPA's February disapproval of Alabama's interstate transport SIP and on June 13, 2023, ADEM and the State of Alabama filed a joint motion for stay of EPA's SIP disapproval in the Eleventh Circuit. On August 17, 2023, the Eleventh Circuit granted the stay motion; therefore, the Good Neighbor Plan FIP for Alabama is currently not in effect for Alabama Power. On August 4, 2023, ADEM, the State of Alabama, and Alabama Power also filed petitions for review of EPA's FIP in the Eleventh Circuit. That case is being held in abeyance until the challenge to the SIP disapproval is resolved. On September 29, 2023, EPA finalized an interim final rule to stay the effectiveness

of the Good Neighbor Plan for several states including Alabama in order to implement the judicial stay order that was issued. Oral argument regarding EPA's SIP disapproval was held on September 24, 2024. However, on October 24,2024, the Court held the case in abeyance pending the Supreme Courte's resolution of cases that will consider the venue provision. Litigation regarding these actions remains pending.

Additionally, several petitions for review and stay motions were filed in the D.C. Circuit challenging EPA's Federal Good Neighbor Plan, and on September 25, 2023, the Court denied the stay motions. Petitioners filed emergency stay requests to the Supreme Court and on June 27, 2024, the Supreme Court issued a stay of the Federal Good Neighbor Plan, finding that the petitioners would likely succeed on the merits. The stay remains in effect pending the outcome of the litigation in the D.C. Circuit.

The installation by Alabama Power of SCRs and scrubbers has helped to ensure compliance with CSAPR, the CSAPR Update Rule, and the Revised CSAPR Update Rule and would also support compliance with the Good Neighbor Plan. This equipment likewise will contribute to the Company's compliance efforts with any future updates or revisions to the CSAPR program, or with any subsequent transport rules EPA may promulgate.

NO2 Standards

In February 2010, EPA issued a final rule that revised the NAAQS for nitrogen dioxide (**NO**₂). EPA retained the existing annual standard of 53 ppb and added a new 1-hour standard of 100 ppb (the **2010 NO**₂ **standard**). The rule required new roadside and community wide ambient air quality monitoring in larger urban areas, and the Jefferson County Department of Health installed two NO₂ ambient air quality monitors in Birmingham to meet this requirement. While the rule

focused on mobile source emissions near major roadways, the new standard also reached other sources of NO_2 emissions. In June 2010, EPA provided guidance for air quality modeling assessments associated with the new standard. This guidance called for unusually conservative (stringent) procedures, particularly in the permitting of new or modified sources.

In February 2012, EPA designated all areas of the country as "attainment/unclassifiable" for the new 1-hour NO₂ standard. Petitions for reconsideration and legal challenges of the final rule were filed in the D.C. Circuit and on July 17, 2012, the Court upheld the revised NO₂ standards. Petitions for review filed with the Supreme Court were ultimately denied, effectively ending the litigation.

On July 14, 2017, EPA proposed to retain, without revision, both primary NO₂ NAAQS (i.e., the 1-hour standard as well as the annual NO₂ standard). In a final rule issued on April 6, 2018, EPA retained the standards without revision, based on EPA's review of the most recent science on health effects of NO₂. While the NO₂ standards are not expected to result in any nonattainment issues in Alabama, the stringency of the 1-hour NO₂ standard remains a concern in air quality modeling associated with air permitting.

SO2 Standards

In June 2010, EPA issued a final rule that revised the NAAQS for sulfur dioxide (**SO**₂). EPA established a new 1-hour standard of 75 ppb (the **2010 SO**₂ **standard**) and revoked the existing 24-hour and annual SO₂ standards (effective one year after final area designations for the new standard). Numerous states, industries and groups challenged the revised SO₂ NAAQS rule, but on July 20, 2012, the D.C. Circuit upheld the 2010 SO₂ standard. A petition for review filed with the Supreme Court was denied in January 2013.

In June 2011, as part of the process for implementing the 2010 SO₂ standard, ADEM recommended to EPA that all areas in Alabama be designated "unclassifiable" for the standard. EPA solicited stakeholder input concerning a provision of the rule that required major SO₂ sources (including all Alabama Power coal-fired power plants) to conduct plant-specific modeling, which contributed to delays in area designations. The 2010 SO₂ standard was implemented through a combination of ambient air quality monitoring and computer dispersion modeling, deviating from the traditional method of establishing attainment based only on ambient air monitoring data. Area designations were done in separate rounds, based on the use of monitoring data and modeling. On July 25, 2013, EPA designated 29 areas in 16 states (but did not designate other areas) as nonattainment for the 2010 SO₂ standard (round one). No areas in Alabama were designated in this first round.

Environmental groups filed suit in the U.S. District Court for the Northern District of California over EPA's failure to complete designations for the entire country by the CAA statutory deadline. On June 2, 2014, EPA proposed a consent decree in the *Federal Register* that had been negotiated with environmental groups and on March 2, 2015, the Court accepted the consent decree as an enforceable order. The Court's order directed EPA to complete designations for the SO₂ NAAQS in three additional rounds by prescribed dates.

In a simultaneous regulatory action, EPA proposed a data requirements rule (**DRR**) on April 17, 2014, regarding procedures for states to apply in making SO₂ NAAQS designations. On August 10, 2015, the DRR was finalized and a schedule was established for state air agencies to characterize SO₂ air quality and provide that air quality data to EPA. The schedule required state air agencies to submit to EPA, by January 15, 2016, a list of SO₂ emitting facilities (including fossil fuel-fired electric generating plants) around which air quality was to be characterized, as well as sources with SO₂ emissions above 2,000 tons per year. The DRR provided options whereby

states could characterize air quality around listed facilities to show compliance with the 1-hour SO₂ NAAQS. The options were: 1) perform air quality modeling; 2) install and operate SO₂ ambient monitors; or 3) adopt federally enforceable permit limits to cap SO₂ emissions below 2,000 tons per year. For facilities that chose modeling, the analyses were due at EPA by January 13, 2017, with designations finalized by December 2017. For facilities that chose the second option, monitors were to be sited and operational by January 1, 2017, with designations finalized by December 2020. Certified air quality monitoring data was to be collected for 2017 through 2019. For facilities that accept limits that cap SO₂ emissions below 2,000 tons per year, the limits were effective as of January 13, 2017.

In accordance with the DRR, Alabama Power submitted in January 2017 modeling characterizing SO₂ air quality around its coal-fired generating facilities. The submittal demonstrated that the air quality around the modeled Alabama Power plants meets the 1-hour SO₂ standard. Based in part on this information, EPA issued final third round designations on December 21, 2017 for the 1-hour SO₂ air quality standard, including most areas in Alabama. All areas in Alabama were designated "attainment/unclassifiable" or "unclassifiable", except for a portion of Shelby County, Alabama, where an industrial facility is located. On December 21, 2020, EPA finalized Round 4 designations for the SO₂ NAAQS. These designations were informed by monitoring networks that were installed as part of the DRR. In the final rule, EPA designated the portion of Shelby County noted above as attainment/unclassifiable. This EPA action concluded designations for Alabama

On June 8, 2018, EPA proposed to retain the current 1-hour SO₂ air quality standard that was set in 2010, based upon its review of health effects evidence and information. On February 25, 2019, EPA finalized its proposal to leave unchanged the current 1-hour SO₂ NAAQS of 0.075 ppm.

CLEAN AIR VISIBILITY RULE

The Clean Air Visibility Rule (CAVR) (also called the Regional Haze Rule) was finalized in July 2005. The goal of this rule is to restore natural visibility conditions in 156 specified Class I areas (primarily national parks and wilderness areas) by 2064. The rule includes: (1) the application of Best Available Retrofit Technology (BART) to certain sources built between 1962 and 1977; and (2) the application of any additional emissions reductions that may be deemed necessary for each designated area to achieve "reasonable progress" toward the goal of natural visibility conditions. Progress toward the natural visibility goal is assessed every ten years. For each of these ten-year planning periods, additional emissions reductions will be required unless states demonstrate that additional measures are not needed or are not reasonable.

The BART application of CAVR is an element of the first planning period only. Among other criteria, a BART analysis and determination must consider the costs to the source and the source-specific visibility benefits from the application of BART. Under CAVR, states had the regulatory prerogative to determine whether CAIR was equivalent to BART for SO₂ and NO_x for electric generating units. In other words, CAIR-affected units would potentially not have to go through a BART analysis for SO₂ and NO_x for visibility impairment as it pertains to this rule. ADEM made the decision that CAIR was equivalent to BART for CAIR-affected units in Alabama, which was consistent with EPA regulations at the time. Therefore, for its named units, Alabama Power submitted BART analyses only for particulate matter–the remaining visibility-impairing pollutant not regulated by CAIR.

Under CAVR, ten Alabama Power coal-fired units were declared BART-eligible for particulate emissions and required to undergo a BART analysis. Alabama Power performed the extensive

BART analyses for particulate matter and submitted the analyses to regulatory agencies in August 2006. The results showed that none of the Alabama Power units met the thresholds for causing or contributing to visibility impairment from particulate matter emissions in any Class I area.

In 2008, ADEM submitted to EPA Alabama's first CAVR SIP, with subsequent SIPs to EPA scheduled for 2018, 2028, 2038, 2048 and 2058. In 2012, EPA partially approved Alabama's CAVR SIP but disapproved the parts that relied on the CAIR rule, which had been vacated after Alabama's submission of the SIP. With CAIR vacated, EPA indicated support for states relying on the replacement CSAPR as being equivalent to BART for SO₂ and NO_x emissions. ADEM adopted CSAPR as equivalent for BART for SO₂ and NO_x in the Alabama CAVR SIP. In July 2013, ADEM submitted to EPA a five-year progress review that concluded no revisions to the Alabama CAVR SIP were necessary at the time.

On January 10, 2017, EPA finalized regional haze revisions that amended requirements for state CAVR plans. This rule included an extension of the deadline for the next regional haze SIP submittal from July 31, 2018 to July 31, 2021. On September 29, 2017, EPA affirmed the continued validity of its determination that CSAPR is equivalent to BART. On October 12, 2017, EPA finalized four actions regarding regional haze and visibility obligations in Alabama's SIP. These actions included: (i) approval of Alabama's SIP revision seeking to change reliance from CAIR to CSAPR for certain regional haze requirements; (ii) conversion of EPA's prior limited approval/limited disapproval of Alabama's SIP submittals for the 2012 PM2.5, 2010 NO₂ and 2010 SO₂ NAAQS; and (iv) conversion of EPA's disapproval of the visibility portion of Alabama's SIP for the 2008 ozone NAAQS to an approval. In addition, on March 5, 2019, EPA approved a revision to the Alabama SIP regarding the state's five-year regional haze progress report. The regional haze SIP

revision addressed the state's determination that its regional haze plan is adequate to meet the reasonable progress goals for 2018.

EPA's determination that compliance with CSAPR was "better-than-BART", for purposes of including a BART alternative in a state's regional haze SIP, was challenged in the D.C. Circuit. On March 20, 2018, the Court issued an order allowing states to treat CSAPR as a compliance option for regional haze SIPs. However, there is another pending case on this issue, leaving reliance on CSAPR as a "better-than-BART" alternative unresolved. In September 2018, EPA announced plans to revise the regional haze program, with the goals of: (i) returning states to the lead role for compliance, as intended by Congress; (ii) reducing state planning burdens; and (iii) leveraging emission reductions achieved through other CAA programs that further improve visibility in protected areas. On August 20, 2019, EPA released "Guidance on Regional Haze Implementation Plans for the Second Implementation Period", and provided further clarification in a memorandum dated July 8, 2021. EPA released these documents to assist states as they develop revised regional haze SIPs for the second planning period (2018-2028).

The timing of EPA's guidance did not give many states sufficient opportunity to submit regional haze plans. On August 30, 2022, EPA published in the *Federal Register* a *Finding of Failure to Submit Regional Haze Implementation Plans for the Second Planning Period*, which finds that 15 states, including Alabama, did not submit required regional haze SIPs for the second regional haze planning period by the July 31, 2021 deadline. This action established a two-year deadline for EPA to promulgate FIPs to address these requirements for a given state unless, prior to EPA promulgating a FIP, the state submits, and EPA approves, a SIP that meets these requirements. Although EPA's deadline has passed, EPA has not promulgated FIPs to address the Findings of Failure and Alabama has not submitted a regional haze SIP for approval. On July 12, 2024, the

D.C. Circuit issued a final consent decree in which EPA agreed to sign a notice of proposed or final rulemaking to act on several SIP submittals by certain deadlines in 2024 and 2025. Additionally, on July 30, 2024, EPA issued a memorandum providing information regarding development of the Regional Haze Progress Reports for the Second Planning Period SIPs, which are due to EPA on January 31, 2025.

HAZARDOUS AIR POLLUTANTS / MERCURY

The CAA directed EPA to conduct the following two studies addressing hazardous air pollutants (HAPs):

- Emissions and health and environmental effects of mercury releases from all sources (mercury study)
- Hazards to public health resulting from utility emissions of HAPs (utility study)

EPA released the results of the mercury study and the utility study on December 19, 1997 and February 25, 1998, respectively. In both studies, EPA found that mercury from electric power plants is the HAP with the greatest potential concern. EPA found that even though these power plants contributed only one percent to global mercury emissions, coal-fired power plants were nonetheless the largest remaining unregulated man-made source of mercury in the United States. As a result of these findings, EPA issued the Clean Air Mercury Rule (CAMR) on March 15, 2005. The rule was issued as a cap-and-trade program under section 111 of the CAA for the reduction of mercury emissions from coal-fired power plants. CAMR was to be implemented in two phases—2010 and 2018—and provided for an emissions allowance trading market. In the first phase, the national cap on utility industry mercury emissions would be set at 38 tons (approximately a 30 percent reduction); in the second phase, the cap would be lowered to 15 tons (approximately a 70 percent reduction). The majority of reductions required for the first phase

were expected to be met through co-benefits from scrubber and SCR systems installed for the control of SO_2 and NO_x under CAIR. ADEM submitted Alabama's CAMR SIP in November 2006, which EPA approved in October 2007.

A number of states and environmental groups filed petitions to review CAMR, primarily challenging the proper source of EPA's authority to regulate mercury under the CAA. The petitioners alleged that mercury should be regulated under the section 112 "maximum achievable control technology" (MACT) provision of the CAA instead of section 111. EPA reconsidered this issue in October 2005 and decided MACT-based regulation for mercury was not "appropriate and necessary." In February 2008, the D.C. Circuit vacated CAMR and EPA's concurrent rule to "delist" electric generating units (EGUs) from those CAA provisions requiring application of MACT. The vacatur became effective with the issuance of the Court's mandate in March 2008, thus nullifying CAMR mercury emission control obligations and monitoring requirements. EPA and industry petitions for rehearing were denied in May 2008. Petitions for Supreme Court review were filed by industry groups and EPA in September and October 2008, respectively. EPA withdrew its petition on February 6, 2009, and the Supreme Court denied the industry petition on February 23, 2009. EPA settled that litigation and entered a consent decree to issue a rule under section 112 by December 16, 2011.

In January 2010, Alabama Power received an Information Collection Request (**ICR**) from EPA that was intended to help EPA develop MACT emission limits for HAPs under the new rule. Alabama Power submitted its ICR response and emission test results in 2010. EPA analyzed the ICR responses from all utilities during the remainder of 2010 and proposed the Utility MACT rule on March 16, 2011. On December 16, 2011, EPA issued the final Utility MACT rule, known as the Mercury and Air Toxics Standards (**2012 MATS**) rule. The 2012 MATS rule established

stringent emission limits for mercury, filterable particulate matter as a surrogate for non-mercury metallic HAPs, and hydrochloric acid (HCl) as a surrogate for acid gas HAPs. The compliance requirements of the 2012 MATS rule were much more onerous for Alabama Power as compared to CAMR's cap-and-trade program. The Company developed a comprehensive environmental compliance strategy to assess compliance obligations associated with environmental requirements. As part of this strategy, the Company implemented its compliance plan for the 2012 MATS Rule, which included reliance on existing emission control technologies (e.g., electrostatic precipitators, SCRs and scrubbers), construction of baghouses to provide additional control for the emissions of mercury and particulates, use of additives or other injection technology (dry sorbent and/or activated carbon), use of existing or additional natural gas capability, unit retirements, and upgrades to certain transmission facilities. For existing sources, compliance was required to begin three years from the effective date of the final rule (April 16, 2015), absent a compliance extension.

Following promulgation of the final 2012 MATS rule, EPA received several petitions to reconsider aspects of the rule and subsequently granted reconsideration on a limited set of issues. EPA proposed and finalized issues related to new source emission limits and startup and shutdown provisions, but denied the remaining issues raised by petitioners. Petitions for review of the final rule were also filed at the D.C. Circuit. On April 15, 2014, the Court issued its opinion, denying all challenges. On July 14, 2014, several petitions were filed with the Supreme Court seeking review of the D.C. Circuit's decision. The State of Alabama participated in one such petition along with 20 other states. On June 29, 2015, the Supreme Court reversed the decision of the D.C. Circuit and found that EPA interpreted the Clean Air Act unreasonably when it deemed cost an irrelevant consideration in the decision whether regulation of power plants under section 112's "appropriate and necessary" standard. While the Supreme Court directed that EPA must consider cost before deciding whether regulation of power plants is "appropriate and necessary," the Court
left it to EPA on remand to decide how to account for cost. On December 15, 2015, the D.C. Circuit issued an order remanding the MATS proceedings to EPA for consideration of cost, but did so without vacatur (i.e., the D.C. Circuit required compliance with the overturned MATS rule to continue). On April 25, 2016, the EPA published the final "Supplemental Finding that it is Appropriate and Necessary to Regulate Hazardous Air Pollutants from Coal- and Oil-Fired Electric Utility Steam Generating Units" (MATS Supplemental Finding). EPA concluded that a consideration of cost does not cause a change to the determination that regulation of HAP emissions from EGUs is appropriate and necessary. Several petitions for review of the MATS Supplemental Finding were filed in the D.C. Circuit in mid-2016. On April 27, 2017, the D.C. Circuit granted EPA's motion to postpone oral argument and hold the case in abeyance while EPA conducted a review of the MATS Supplemental Finding.

Following its review, EPA proposed on December 26, 2018, to revise the Supplemental Finding for MATS. Among other things, the proposal identified flaws in the Supplemental Finding's cost/benefit analysis and determined that it is not "appropriate and necessary" to regulate EGU HAP emissions. EPA nonetheless proposed to leave the MATS standards in place and unchanged, based on the results of a Residual Risk and Technology Review (**RTR**) that is required within eight years of setting standards under this section of the CAA (2020 in this case).

On April 16, 2020, EPA finalized its reconsideration of the Supplemental Finding (**2020 MATS Rule**) and concluded there were flaws in the Supplemental Finding's approach to considering costs and benefits used to regulate HAPs from coal- and oil-fired electric generating units. In the 2020 MATS Rule, EPA determined that a proper consideration of costs demonstrates that the total projected cost of compliance with MATS (\$7.4 to \$9.6 billion annually) dwarfs the monetized HAP benefits of the rule (\$4 to \$6 million annually). EPA reasoned this imbalance is not enough to support a finding that it is "appropriate and necessary" to regulate EGU HAP emissions based primarily on the monetized particulate matter co-benefits. However, EPA concluded that the absence of such a finding does not automatically remove the coal- and oil-fired EGUs from the list of affected source categories for regulation under section 112 of the CAA (in light of a 2008 D.C. Circuit decision regarding the process for delisting EGUs from the list of sources regulated under section 112), nor does such absence affect the status of the 2012 MATS Rule, which remains in effect. EPA also took final action on the RTR and determined that the residual risks from HAP emissions from coal- and oil-fired EGUs are acceptable and there have been no new cost-effective HAP controls identified (Technology Review) to achieve further emission reductions. Therefore, EPA found that revisions to the 2012 MATS Rule are not warranted.

On August 5, 2020, the parties involved in litigation of the MATS Supplemental Finding submitted a joint motion to the D.C. Circuit for the case to continue to be held in abeyance pending resolution in the litigation challenging the 2020 MATS Rule. On August 26, 2020, the D.C. Circuit granted that unopposed motion.

On his first day in office, President Biden issued Executive Order 13990 directing all executive departments and agencies to review the promulgation of federal regulations specifically including the 2020 MATS Rule. In accordance with the Executive Order, EPA filed a motion to hold litigation in abeyance regarding the 2020 MATS Rule while the agency conducted a review of the rule. The motion was granted by the D.C. Circuit on February 12, 2021.

EPA completed its review of the 2020 MATS Rule and on January 31, 2022, published in the *Federal Register* a proposed revocation of the 2020 MATS Rule and instead affirmed the prior "appropriate and necessary" Supplemental Finding regarding regulation of HAPs from EGUs. On

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March 6, 2023, EPA finalized its finding that it remains "appropriate and necessary" to regulate HAPs from EGUs after considering costs. In light of this new rulemaking, the State of Alabama and other petitioners dismissed their challenge of the prior 2016 MATS Supplemental Finding. On April 24, 2023, EPA published a proposed rule for the MATS RTR that lowered the current PM surrogate emission limit by 67 percent and required the installation of continuous monitoring systems for PM. On May 7, 2024, the final MATS RTR was published in the Federal Register. EPA lowered the PM surrogate emission limit, as proposed, and required the installation of continuous emission monitoring systems for PM. Compliance with the rule is required by July 6, 2027. The rule impacts Alabama Power's obligations for monitoring PM emissions; however, Alabama Power expects to rely on its existing suite of controls to comply with the more stringent PM surrogate emission limit.

Following promulgation of the final rule, industry groups and a coalition of states filed petitions for review and stay requests in the D.C. Circuit. The D.C. Circuit denied the stay requests on August 6, 2024 and petitioners filed emergency stay requests with the Supreme Court. Those requests were denied on October 4, 2024. The litigation in the D.C. Circuit remains pending.

GREENHOUSE GASES / CLIMATE CHANGE

In April 2007, the Supreme Court ruled that EPA has authority under the CAA to regulate greenhouse gas (**GHG**) emissions from new motor vehicles. In response to this decision, EPA finalized its GHG Reporting Program on September 22, 2009, which required annual reporting of GHGs. Alabama Power is fulfilling all monitoring, recordkeeping and reporting requirements necessary to comply with this requirement. In December 2009, EPA also finalized an endangerment finding (a prerequisite for regulation) for GHG emissions from mobile sources. The

finding concluded that six GHGs in the atmosphere (carbon dioxide (**CO**₂), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride) threaten both public health and welfare. It also found that emissions from new motor vehicles and motor vehicle engines contribute to the atmospheric concentrations of these GHGs and thus to the threat of climate change. In March 2010, EPA finalized an interpretation of its stationary source rules, which specified that once GHGs are regulated under any part of the CAA, GHG emissions from new and modified sources will become "regulated pollutants" under the CAA. In April 2010, EPA (in a joint rulemaking with the National Highway Traffic Safety Administration) finalized new motor vehicle emission standards for the following GHGs: CO₂, methane, nitrous oxide and hydrofluorocarbons. These standards became effective on January 2, 2011—the first date that 2012 model-year vehicles could be sold. Accordingly, GHGs became "regulated pollutants" under the CAA on January 2, 2011, subjecting new and significantly modified stationary sources that emit certain quantities of GHGs to undergo a Best Available Control Technology (**BACT**) review for control of GHGs.

In an attempt to reduce the number of sources that would be required to obtain permits and the associated administrative burden if Prevention of Significant Deterioration (**PSD**) permitting and Title V requirements were triggered for GHGs at the current program thresholds of 100/250 tons per year, EPA finalized a GHG "tailoring rule" on May 13, 2010. The tailoring rule increased the major source emission thresholds for the PSD and Title V programs to 100,000 tons of CO₂ equivalent per year. The rule also increased the significance level for major modifications under the PSD program to 75,000 tons of CO₂ equivalent per year. In July 2011, EPA finalized a rule that deferred, for a period of three years, GHG permitting requirements for CO₂ emissions from biomass and other biogenic sources under the PSD and Title V programs. On July 12, 2013, the D.C. Circuit vacated this three-year deferral, but on October 15, 2013, the Supreme Court agreed

to hear argument on the basic question of whether new GHG rules for mobile sources could trigger permitting requirements for stationary sources. On June 23, 2014, the Supreme Court ruled that EPA lacked the authority to require air permits from facilities based solely on their GHG emissions. However, the Court affirmed EPA's authority to regulate GHG emissions from sources when those sources become subject to PSD requirements due to their emissions of conventional pollutants. The decision invalidated several elements of EPA's rules that had to be addressed by the EPA and the D.C. Circuit. On July 24, 2014, EPA issued guidance outlining its views on how to implement the Supreme Court's decision.

On April 13, 2012, EPA published in the *Federal Register* a proposed *Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units.* Had this rule been finalized as proposed, it would have effectively eliminated the development of any new coal-fired electric generating units without carbon capture and storage capability. Although this rule was not going to apply directly to existing units, states or courts could determine that the standard for new sources is relevant when establishing BACT for permitting modifications to existing sources.

On June 25, 2013, the President released a memorandum to the Administrator of the EPA entitled "Power Sector Carbon Pollution Standards", detailing a new regulatory timeline for GHG regulations. The President's memorandum directed EPA to take the following actions:

- Re-propose the GHG performance standards for new sources by September 20, 2013 and finalize these standards in a "timely fashion."
- Propose GHG standards, regulations, or guidelines for modified, reconstructed, and existing sources by June 1, 2014 and finalize these requirements by June 1, 2015.
- Include in the guidelines addressing existing sources a requirement that states submit implementation plans to EPA by June 30, 2016.

In response to these Presidential directives, EPA published in the *Federal Register* on January 8, 2014 proposed GHG emission performance standards for new, modified and reconstructed electric generating units. In a companion action, EPA withdrew its proposed prior GHG emission performance standards for new electric generation units, which had been published on April 13, 2012. On June 18, 2014, EPA published in the *Federal Register* proposed GHG emission performance guideline for existing electric generating units. These regulations proposed to reduce carbon emissions from existing power plants 30 percent below 2005 levels by 2030. On October 23, 2015, EPA finalized the proposal for new, modified and reconstructed units. This rule required partial carbon capture and sequestration (**CCS**) for any new or modified coal unit as the "best system of emission reduction" (**BSER**) for new coal-fired units.

Clean Power Plan

On October 23, 2015, EPA also published the Clean Power Plan (**Clean Power Plan** or **CPP**), which finalized guidelines for states to develop plans to meet EPA-mandated CO₂ emission rates for existing coal- and gas-fired units. The final guidelines required state plans to meet interim CO₂ performance rates between 2022 and 2029 and final rates in 2030 and thereafter. EPA projected that the Clean Power Plan would reduce CO₂ emissions from existing power plants 32 percent below 2005 levels by 2030. EPA used three "building blocks" to establish BSER for CO₂ emissions from existing electric generating units: 1) improvements in plant efficiency (i.e., heat rate); 2) increased dispatch of natural gas fired units in favor of coal units; and 3) expansion of zero-emitting renewable energy sources (e.g., wind and solar). Also, on August 3, 2015, EPA proposed a federal plan and proposed model rule that states could adopt or would be put in place if a state either failed to submit a state plan in response to the final guidelines or its plan was not approved by EPA.

On February 9, 2016, the Supreme Court granted a stay of the Clean Power Plan. With the rule stayed, the requirement for state plan submittals was suspended. The stay was to remain in effect until the conclusion of litigation or the Supreme Court otherwise terminated it. On September 27, 2016, oral argument over the CPP was held before the full panel of judges in the D.C. Circuit. On March 28, 2017, after oral argument but before the Court ruled on the validity of the CPP, the President signed Executive Order 13783 "Promoting Energy Independence and Economic Growth." Among other provisions, the Executive Order directs EPA to review the CPP (and the final rule applying to new sources) and, if appropriate and as soon as practicable, issue proposed rules suspending, revising, or rescinding the CPP. Accordingly, on March 28, 2017, EPA filed a motion with the D.C. Circuit to hold in abeyance litigation of the CPP. On April 4, 2017, EPA initiated a review of the CPP as a result of Executive Order 13783. On April 28, 2017, the D.C. Circuit granted EPA's motion to hold the CPP litigation in abeyance.

On October 16, 2017, EPA proposed to repeal the CPP. EPA further indicated that it would separately ask for comment on whether to replace the CPP, which it subsequently did through an advanced notice of proposed rulemaking issued December 27, 2017.

Affordable Clean Energy Rule

On August 31, 2018, EPA proposed a replacement rule for the CPP—the Affordable Clean Energy Rule (ACE). ACE would provide a new set of emission guidelines that inform the development and implementation of state plans to reduce GHG emissions from existing coal-fired steam generating units by requiring efficiency improvements.

On June 19, 2019, EPA signed a final rule containing three separate agency actions: 1) repeal of the CPP; 2) replacement of the CPP with ACE; and 3) revisions to regulations for implementing

ACE and any future emission guidelines issued under section 111(d) of the CAA. The CPP was repealed due to EPA's determination that the CPP exceeded EPA's statutory authority under the CAA by relying on a BSER that could not be implemented by individual facilities. With ACE, in contrast, EPA finalized heat rate improvement (i.e., efficiency improvement) as the BSER for reducing CO_2 emissions from coal-fired units, requiring the states to evaluate each affected unit and establish new CO_2 emission limits based on heat rate or efficiency improvements that each unit can achieve. States were given three years to submit plans, with the deadline being July 8, 2022. All of Alabama Power's coal-fired generating units were subject to ACE.

With EPA's repeal of the CPP, several states (including Alabama) and several private parties (including Alabama Power) filed a joint motion in the D.C. Circuit to dismiss their petitions for review of the CPP. On September 17, 2019, the Court ordered these petitions and all pending motions regarding the CPP be dismissed as moot, effectively ending the original CPP litigation.

Petitions for review of ACE and the repeal of the CPP were then filed in the D.C. Circuit. Following oral argument on October 8, 2020, the D.C. Circuit issued its opinion on January 19, 2021. Finding that both ACE and the repeal of the CPP were unlawful, the Court vacated and remanded ACE back to EPA. EPA filed a motion for a partial stay of the mandate, asking that the mandate pertaining to the repeal of the CPP not issue until EPA completed a new rulemaking to replace ACE with new regulations consistent with the Court's opinion. The D.C. Circuit granted EPA's motion and on February 22, 2021, issued a partial mandate, finalizing only the Court's vacatur of ACE. This step removed the possibility that CPP could arguably come back into effect during EPA's rulemaking process of a replacement rule. Industry and several states (including Alabama) filed petitions with the U.S. Supreme Court seeking review of the D.C. Circuit's decision in the ACE litigation, and on October 29, 2021, petitions for review were granted by the Court. The Supreme Court agreed to consider whether section 111(d) of the CAA authorizes EPA to impose standards (e.g., BSER) for existing sources based on technology and methods that go beyond the individual source.

Oral argument before the Supreme Court occurred on February 28, 2022, and on June 30, 2022, the Court reversed the lower court's ruling in the ACE litigation. The Court confirmed EPA has the authority to regulate greenhouse gas emissions from existing power plants but rejected the approach used in the Clean Power Plan, holding that the CAA does not give the agency authority to require power plants to shift generation from fossil fuels to renewables. In reaching this decision, the Court formalized the "major questions doctrine", which prevents courts from deferring to federal agencies when they adopt regulations with major economic or political significance unless the agencies have clear direction from Congress. The Court held that Congress did not give EPA clear authority under section 111(d) of the CAA to engage in generation shifting. Following this ruling from the Supreme Court, EPA asked for further action on ACE to be stayed while EPA developed a new section 111(d) rule for power plants.

Carbon Standards

On May 23, 2023, EPA published a proposed rule (Greenhouse Gas Standards and Guidelines for Fossil Fuel-Fired Power Plants) that contained five separate actions: 1) set greenhouse gas emissions standards for new combustion turbines; 2) set greenhouse gas emissions standards for modified steam electric generating units; 3) established guidelines for states to set greenhouse gas emissions standards for existing coal, oil, and gas steam electric generating units; 4) established guidelines for states to set greenhouse gas emissions standards for frequently operated existing combustion turbines; and 5) formally repealed the ACE rule. The proposed standards would be based on technologies such as CCS, low GHG hydrogen co-firing, and natural gas co-firing. The

proposed requirements vary by the type of unit, (new or existing combustion turbine or coal-fired or natural gas-fired EGU), how frequently it operates (base load, intermediate load, or low load (peaking)) and its operating horizon (planned operation after certain future dates). The proposed rule states compliance could begin as early as January 1, 2030 for some units. Through Southern Company, Alabama Power submitted comments on EPA's proposal. On November 20, 2023, EPA published a supplemental notice of proposed rulemaking seeking public comment on recommended measures the agency should consider in an effort to mitigate electric system reliability concerns that numerous parties raised in comments on the proposal.

On May 9, 2024, the final rule was published in the Federal Register. Four of the five actions EPA outlined in the proposal were finalized, with the exception being the guidelines for existing combustion turbines. The final rule requires new combustion turbine units to install CCS or comply with a CO₂ emission standard based on utilization. States must submit plans that set emission guidelines for existing units to EPA no later than May 2026. EPA's rule instructs states to include in those plans requirements that existing coal-fired units install CCS, co-fire significant natural gas, or set early retirement dates and that existing gas- or oil-fired steam electric generating units meet a CO₂ emission standard based on utilization. Compliance is required as early as January 1, 2030 or January 1, 2032, based on the type of unit and compliance option. Numerous states (either jointly or as part of a state coalition), utility coalition and other industry groups filed petitions for review of the rule and stay requests with the D.C. Circuit. On July 19, 2024, the D.C. Circuit denied the stay requests and petitioners filed an emergency stay request with the Supreme Court. Although that request was denied on October 16, 2024, several of the participating Justices expressed the opinion that petitioners were likely to succeed on the merits as to at least some of their challenges. The D.C. Circuit litigation is still pending.

EPA's rule will have a significant impact on Alabama Power's operations and planning, but it is not possible to quantify that impact until state plans are issued and pending litigation over EPA's rule is resolved. As with all major air regulations affecting the Company, the courts will continue to play a significant role in the implementation of rules aimed at reducing GHG emissions from electric generating units.

US GHG Emissions Reduction Targets

On September 3, 2016, the United States joined the Paris Agreement, which includes a goal to hold global average temperature to well below 2°C above pre-industrial levels. In accordance with its terms—when at least 55 parties to the convention accounting for at least an estimated 55 percent of the total global greenhouse gas emissions formally joined the agreement—the Paris Agreement took effect on November 4, 2016. The United States' country-specific contribution, as submitted in March 2015, was an economy-wide emission target to reduce GHG emissions 26 to 28 percent below 2005 levels by 2025. However, on June 1, 2017, the United States announced it would withdraw from the Paris Agreement and begin negotiations for re-entry pursuant to a new agreement with more favorable terms for the United States. On November 4, 2019, the United States officially began the process to withdraw from the Paris Agreement by submitting formal notification to the United Nations. The United States' withdrawal became effective on November 4, 2020.

On January 20, 2021, the United States reversed course and accepted the Paris Agreement effective February 19, 2021. In April 2021, as part of a renewed commitment to the Paris Agreement, the President committed the United States to achieve a 50 to 52 percent reduction from 2005 levels in economy-wide net-zero greenhouse gas emissions by 2030. The President also emphasized his commitment to achieve a carbon-free power sector by 2035. Presently, there are no details on how

the administration expects to achieve the 2030 target or fulfill the 2035 commitment. At this time, the potentially significant implications of any national initiatives, the Paris Agreement or any future international accord or treaty concerning constraint of GHG emissions are unknown.

Over the years Congress has considered many legislative proposals that would reduce emissions of GHGs and/or mandate generation of electricity from renewable energy sources, and efforts to introduce carbon- and climate-related legislation continue. The Inflation Reduction Act of 2022 is being recognized as the first significant action by Congress to address GHGs. To date, Congress has passed no legislation that would tax the carbon content of fuels or mandate renewable/clean energy. The prospects for, and potential impacts of, any such legislation remain uncertain at this time.

WATER INITIATIVES

Steam Electric Effluent Limitations Guidelines (ELG) Revisions

The EPA has promulgated multiple iterations of the ELG Rule over the past 10 years. The following is an overview of EPA's actions including the 2015 Rulemaking, the 2020 Rulemaking, and the recent 2024 Rulemaking.

2015 ELG Rulemaking

On September 30, 2015, EPA issued a rulemaking revising the technology-based rules for steamelectric plants (**2015 ELG Rule**). Among other things, this rulemaking required dry or closedloop ash handling and high levels of treatment for flue gas desulfurization (**FGD**) wastewater. The earliest compliance date for meeting the 2015 ELG Rule was November 1, 2018, with the latest possible compliance date of December 31, 2023¹.

On September 18, 2017, EPA released a final postponement rule that delayed the earliest compliance date for bottom ash transport water (**BATW**) and FGD wastewater streams from November 1, 2018 to November 1, 2020, to allow the agency time to reconsider the limitations imposed on these wastewater streams.

Due to overlapping requirements of the Coal Combustion Residuals (**CCR** or **CCRs**) rule and the 2015 ELG Rule, the Company installed dry or hybrid ash systems and new low volume wastewater treatment systems. All of the systems were made operational ahead of the April 2019 CCR cease receipt date.

2020 ELG Rulemaking

EPA finalized an ELG rulemaking focused solely on BATW and FGD wastewater on October 13, 2020, with an effective date of December 14, 2020 (**2020 ELG Rule**). The 2020 ELG Rule differed from the 2015 ELG Rule in several important respects. Key changes included: 1) establishing changes to the Best Available Technology (**BAT**) effluent limitations applicable to FGD wastewater and BATW, including making limitations for certain constituents more stringent; 2) altering the mandatory compliance timelines (including extending the latest "as soon as possible" date from December 31, 2023 to December 31, 2025) for the generally applicable limitations; 3) providing alternate compliance options, in lieu of complying with the generally

¹ On April 15, 2019, the Fifth Circuit Court of Appeals issued a decision vacating limited portions of the 2015 ELG Rule and directing EPA to reevaluate effluent limitations applicable to "legacy wastewaters" and combustion residual leachate. The Fifth Circuit's decision has not materially impacted Alabama Power because ADEM has applied the requirements of previously established effluent limitations (the 1982 ELGs) to the respective wastewater streams and Alabama Power is in compliance with those limits.

applicable limitations, for units/facilities willing to adhere to certain operational conditions (explained more below); and 4) establishing an "automatic transfer" process allowing regulated entities to transfer among certain compliance options, subject to specified requirements.

Three alternate compliance options included in the 2020 ELG Rule were potentially relevant to the Company. One such subcategory is for low utilization boilers (i.e., boilers with a two-year annual average of less than a 10 percent capacity utilization rating (CUR)). It requires physical/chemical treatment for FGD wastewater and allows discharges of BATW (requiring a best management practices plan). The latest compliance deadline for this option was December 31, 2023, meaning a boiler must fall below the two-year annual 10 percent CUR average on or before that date. The second subcategory is a Voluntary Incentive Program for FGD wastewater, which applies a set of effluent limitations based on membrane treatment technology. The compliance deadline for this option is December 31, 2028. Lastly, there is a retirement/repowering subcategory, which allows continued discharges of FGD wastewater and BATW without the installation of additional treatment technologies, provided the unit retires or repowers (i.e., transition to a fuel source other than coal) by December 31, 2028. Participation in one of these subcategories required the submission of a tailored Notice of Planned Participation (NOPP) to the state regulatory authority followed by annual progress updates.

As required by the rulemaking, the Company timely submitted permit modifications to ADEM, requesting that the recently issued NPDES permits at Plants Gaston and Barry (which reflected the 2015 ELG Rule requirements) be revised to incorporate EPA's 2020 ELG Rule and all of the above-referenced compliance options. ADEM issued a final modified NPDES permit for Plant Barry on January 14, 2022 and for Plant Gaston on June 30, 2023. Additionally, on October 13, 2021, Alabama Power filed NOPPs with ADEM indicating the permanent cessation of coal

combustion by December 31, 2028, at Plants Barry and Gaston. Since that initial filing, Alabama Power has submitted the required annual progress reports for Plants Barry and Gaston.

2024 ELG Rulemaking

For the third time in less than 10 years, EPA again revised the ELG limitations with a supplemental rulemaking published on May 8, 2024 and effective July 8, 2024 (2024 ELG Rule). The 2024 ELG Rule differed from both the 2015 and 2020 ELG Rules in several important areas. Key changes include: (1) setting zero liquid discharge (ZLD) BAT effluent limitations for FGD wastewater and BATW with an "as soon as possible" but no later than December 31, 2029 compliance date; and (2) setting new BAT limitations for both combustion residual leachate (CRL), unmanaged CRL and legacy wastewater. The new limitations require ZLD for CRL, as well as more stringent limits for legacy wastewater and unmanaged CRL. The 2024 ELG rule maintains the 2028 permanent cessation of coal combustion subcategory from the 2020 ELG Rule as well as most of the transfer provisions applicable to APC. The 2024 ELG rule also created a new permanently ceasing coal combustion subcategory for units complying with certain BAT compliance options from the 2020 ELG Rule that will retire or repower by December 31, 2034. To select this compliance subcategory, a NOPP must be filed with the regulatory agency by December 31, 2025. Alabama Power continues to review the 2024 ELG rule regarding compliance options for Plants Gaston, Barry and Miller.

ELG Legal Challenges

On November 2, 2020, environmental groups filed legal challenges to EPA's 2020 ELG Rule in the Court of Appeals for the Fourth Circuit and the D.C. Circuit. These two petitions for review were consolidated in the Fourth Circuit. The Court is still considering a contested motion by Utility Water Act Group (**UWAG**) to transfer the case to the U.S. Court of Appeals for the Fifth

Circuit, where litigation over the 2015 ELG Rule remains pending. The 2020 ELG rule case has been held in abeyance by the Court since EPA announced in 2021 its intent to again revisit the ELG rulemakings. Status updates are submitted to the Court every thirty days.

In May 2024, an array of stakeholders (e.g., industry groups, states, NGOs) filed petitions for review challenging the final 2024 ELG rule in a number of U.S. Courts of Appeals. On June 14, 2024, the Judicial Panel on Multidistrict Litigation randomly selected the U.S. Court of Appeals for the Eighth Circuit to hear the various challenges to the 2024 ELG rule. UWAG filed a motion to stay the ELG rule on July 26, which was joined by a coalition of challenging states and certain utilities. On October 10, 2024, the Court denied the request for stay. In accordance with the Court's orders on the briefing schedule for the substantive challenges, petitioners' briefs were filed on November 7, 2024, respondents' answering brief is due January 17, 2025, respondent-intervenors' briefs are due January 31, 2025, petitioners' reply briefs are due February 21, 2025, and final briefs are due March 7, 2025.

Clean Water Act (CWA) Section 316(a)

Plant Gaston has thermal discharge limits for the months of June through September, and Plants Barry and Greene County have year-round thermal limits. These limits are predicated on studies the Company previously conducted demonstrating a lack of appreciable harm to the balanced indigenous population in the receiving waterbodies, meaning variances to otherwise applicable thermal limits were appropriate. Across the country, EPA has encouraged state permitting agencies to require permittees to conduct supplemental thermal discharge studies to demonstrate the continued lack of appreciable harm and verify that the existing thermal discharge variance remains appropriate. Included in the current NPDES permits issued by ADEM for Plants Greene County, Gaston and Barry is a requirement to conduct another section 316(a) study during the five-year permit term. The agency required the submission of study plans for ADEM approval within 365 days of the effective dates of each respective permit. Alabama Power submitted the study plans as directed, received approval from ADEM, and has fully completed the associated analyses. Final section 316(a) reports for Greene County and Gaston have been submitted to ADEM. The report for Plant Barry was submitted to ADEM in November 2024.

CWA Section 316(b)

Section 316(b) requires that "the location, design, construction and capacity of cooling water intake structures reflect the best technology available for minimizing adverse environmental impact." After a series of rulemakings and court cases extending to the Supreme Court, a final rule was published in the *Federal Register* on August 15, 2014 (**316(b) Rule**). Permit writers are to establish requirements at each power plant or for each intake based on various required reports and information provided by the permittee. Options could range from continuing with the current intake structure configuration and operations to installing closed-cycle cooling towers. One common outcome could be the installation of "fish friendly" coarse mesh traveling screens and fish return troughs.

The 316(b) Rule lays out a set of studies that must be completed and submitted to the permitting authority to aid in determining which (if any) technologies could be required for each facility to achieve compliance. ADEM specified a schedule of compliance for completing and submitting these required studies to ADEM in the respective NPDES permits for Plants Greene County, Gaston, and Barry. Studies at other APC facilities were either already completed or not required due to various factors. The Company has now fulfilled the study obligations in accordance with

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the requirements set forth in each permit: Plant Greene County studies were submitted on October 3, 2023; Plant Gaston studies were submitted on December 27, 2023; and Plant Barry studies were submitted on June 24, 2024. Additional requirements for 316(b) compliance (such as the installation of new intake technologies) may be required in the future as ADEM reviews the submitted studies and issues renewed NPDES permits incorporating their respective determinations.

CWA Section 404

Section 404 gives the Secretary of the Army, through the U.S. Army Corps of Engineers (**Corps** of Engineers or **Corps**), authority to permit the dredging from or filling of material into wetlands and streams deemed "waters of the United States" (**WOTUS**). This authorization may be received through the issuance of general permits (e.g., Nationwide Permits) or individual permits. Construction of transmission lines, substations, power plants and environmental control facilities may require the dredging or filling of wetlands and streams. Significant impacts to wetlands and streams must be mitigated in kind. A "mitigation bank" is a wetland, stream, or other aquatic resource area that has been restored, established, enhanced, or (in certain circumstances) preserved for the purpose of providing compensation for unavoidable impacts to aquatic resources permitted under section 404. To this end, Alabama Power is using mitigation banks managed either by the Company or by others in Alabama, when needed.

WOTUS is the threshold term establishing the geographic scope of federal jurisdiction over wetlands and other waters under the CWA. It is currently defined in Alabama in accordance with rulemakings that EPA and the Corps of Engineers finalized prior to 2015, subject to the additional limitations established in the U.S. Supreme Court's May 25, 2023 decision in *Sackett v. EPA*. Prior to the Supreme Court's ruling, EPA and the Corps of Engineers had published the "Revised Definition of 'Water of the United States'" rule on January 18, 2023, which took effect on March

20, 2023 (**January 2023 Rule**). Application of the "pre-2015" WOTUS regulations in Alabama stems from an April 12, 2023 preliminary injunction issued by the U.S. District Court for the District of North Dakota that prohibits the application of the January 2023 Rule in twenty-four states (including Alabama). Two other courts also enjoined the January 2023 Rule in three additional states.

Following these injunctions, the Supreme Court issued the *Sackett* decision in May 2023, which limited the reach of the CWA and determined that the statute is not applicable to an array of waters over which EPA and the Corps of Engineers historically have asserted regulatory jurisdiction. This included rejecting the seventeen-year-old "significant nexus" test from *Rapanos v. United States* in favor of a "continuous surface connection" test to determine what constitutes WOTUS. Because the *Sackett* decision rendered certain aspects of the January 2023 Rule invalid, EPA and the Corps finalized another rulemaking on September 8, 2023 to amend the January 2023 Rule to conform to the *Sackett* decision (**Conforming Rule**). Where the January 2023 Rule is not enjoined, agencies are implementing the January 2023 Rule, as amended by the Conforming Rule. In the other twenty-seven states (including Alabama), WOTUS is currently defined by the pre-2015 regulatory scheme and the *Sackett* decision. Plaintiffs in the North Dakota federal court action amended their complaint to allege illegalities regarding the Conforming Rule. The parties have also filed and fully briefed motions for summary judgment in this litigation. A decision on the motions could be rendered in the next three to nine months.

New litigation challenging individual jurisdictional determinations by the agencies under the new regulatory regime have also been filed in various federal courts. Relying on principles established in *Sackett*, courts have rejected the agencies' positions and determinations in the overwhelming

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majority of those cases that have been decided. Appeals to federal circuit courts are expected in these matters.

Hydro Licensing

The Federal Energy Regulatory Commission (**FERC**) issued a new hydro license for the Coosa Projects on June 20, 2013 (**Coosa License**). Because a number of provisions in the new license were not properly based on the FERC licensing record or were problematic operationally, Alabama Power sought rehearing of certain provisions in the Coosa License and a delay in their implementation until the rehearing process was complete. Alabama Rivers Alliance and American Rivers appealed the FERC order on the Coosa License to the D.C. Circuit, raising issues under NEPA and the ESA.

On January 12, 2018, the D.C. Circuit held oral argument in the Coosa License appeal. Alabama Power had intervened in support of FERC and U.S. Fish & Wildlife Service (FWS), but was not given an opportunity to participate in the oral argument. On July 6, 2018, the D.C. Circuit vacated the Coosa License and remanded it to FERC for further proceedings. Additionally, the Court deemed unlawful the biological opinion upon which the Coosa License had relied. Following the Court's decision, Alabama Power met with FERC staff as well as environmental regulators to review the changes in operations that had taken place to comply with the Coosa License to determine the compliance requirements for operation of the plants pending issuance of a new Coosa License.

On September 10, 2018, FERC issued a Notice of Reinstatement of Authorization for Continued Project Operation, which reinstated the three August 8, 2007 Notice of Authorizations and returned the July 28, 2005 application for the Coosa Project to a pending status. On October 30, 2018,

FERC issued a scoping document for the Coosa Projects as well as a Notice of Intent (**NOI**) to prepare an Environmental Impact Statement (**EIS**) and solicit comments on the scoping document. The NOI also re-initiated informal consultation with FWS. Alabama Power filed comments with FERC on November 29, 2018. On January 8, 2019, FERC issued a revised scoping document as well as an additional information request for the Coosa Projects. FERC determined that the agency would be consulting directly with FWS on threatened and endangered species and expanded the geographic scope to include the entire Alabama-Coosa-Tallapoosa basin for cumulative effects. On September 27, 2019, FERC issued a second additional information request for the Coosa Project, with a response deadline of December 26, 2019. On March 10, 2020, FERC issued a third additional information request, to which Alabama Power responded on March 27, 2020.

On July 17, 2021, FERC issued the Draft Supplemental Environmental Impact Statement (DSEIS) for the Coosa River Project. The DSEIS recommended essentially no material changes to the Coosa License that was vacated by the D.C. Circuit in 2018. External comments were filed by several parties, including EPA, Alabama Rivers Alliance and American Rivers, Department of the Interior, Alabama Rivers Alliance and American Rivers. Alabama Power also submitted minor comments and clarifications along with a letter from ADEM stating that all the Coosa developments are meeting state water quality standards. Along with issuing the DSEIS, FERC requested formal consultation with FWS to develop a biological opinion for protection of threatened and endangered species, as required by NEPA before a new license can be issued. On January 18, 2022, FWS issued its final biological opinion for the relicensing of the Coosa River Project. In it, FWS addressed the ESA issues identified by the D.C. Circuit as needing further analysis, expanded upon the analysis contained in the 2012 Biological Opinion, and updated the opinion to include analysis of the relicensing impacts on additional species that have been added since 2012. In addition, FWS filed an updated programmatic biological opinion on July 15, 2022

to address shoreline permitting on the Lower Coosa reservoirs. This second consultation completed FERC's formal consultation with FWS.

On October 6, 2023, FERC released its Final Supplemental Environmental Impact Statement (FSEIS) in the remanded Coosa relicensing process. The FSEIS recommends issuing a new license to Alabama Power based on the license proposal as modified by a few Staff alternatives. Most significantly, the FSEIS is recommending that the new Coosa license require Alabama Power to meet a 5.0 mg/L dissolved oxygen (**DO**) standard at all times (generation and non-generation) in the tailraces of each development on the Coosa and in the Weiss bypass. FERC will now use the biological opinions and the FSEIS and to develop license articles.

On November 30, 2023, Alabama Power filed comments asking FERC to use the draft EIS that was issued in June 2021 to develop the final license requirements for the Coosa Project. In addition to this request, the Company proposed an alternative approach that involves deferring the issuance of the license to allow for further analysis to be conducted. On December 13, 2023, Southern Environmental Law Center (SELC), on behalf of Alabama Rivers Alliance and Coosa Riverkeeper, also filed comments on the FSEIS. On March 11, 2024, Alabama Power filed a supplemental comment letter with FERC that included two engineering reports prepared by an outside engineering consultant evaluating the two technologies suggested by FERC in the FSEIS.

Starting in September 2018, Alabama Power began the process to obtain a new operating license for the R.L. Harris Project, a multi-year endeavor that will include the evaluation of environmental, operational, and economic resource issues associated with the project and its relicensing. Alabama Power hosted numerous public and agency meetings, covering topics such as the history of the project, the current operations, current use of the surrounding lands, and proposed studies to be

completed during relicensing. In addition, Alabama Power provided opportunities for stakeholders to bring up issues they felt should be addressed during relicensing.

On June 1, 2018, Alabama Power filed with FERC an NOI to relicense the Harris Project, as well as a Preliminary Application Document (**PAD**) that included all the information known about the potential issues that had been raised in the public meetings and draft study plans. This filing was the official start of the relicensing process. On July 31, 2018, FERC issued the scoping document for the Harris relicensing and requested comments on the PAD. FERC held two scoping meetings in Lineville on August 28-29, 2018 to tour the dam and current license recreation sites, solicit feedback from the agencies and public, and obtain input for its NEPA analysis.

On November 13, 2018, Alabama Power filed updated proposed study plans that addressed comments filed with FERC regarding the PAD. Alabama Power's proposed studies were reviewed and approved by FERC with modifications on April 12, 2019. Alabama Power incorporated FERC's modifications and filed the final study plans on May 13, 2019. With the study plans finalized, Alabama Power began collecting the required data and setting up public meetings with interested stakeholders. The first large public meeting to review how the studies were being implemented, as well as initial discussions on potential changes to the project, was held on September 11, 2019. Topics included proposed lake level changes, flows through the dam, water quality, erosion and sedimentation, and possible uses of Alabama Power land.

As required by FERC, Alabama Power filed six draft study reports on April 10, 2020. A required FERC meeting to review the study reports was held on April 28, 2020. All stakeholders were invited to participate. On July 10, 2020, Alabama Power submitted updated study reports to FERC that reflected stakeholder input or the Company's reasons for not incorporating that feedback. On

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August 10, 2020, FERC issued a letter to Alabama Power in which the Commission responded to stakeholder comments on the initial study reports and requested additional studies. FERC denied most of the stakeholder comments that Alabama Power declined to evaluate with the exception of two changes. First, FERC required Alabama Power to evaluate three more minimum flow alternatives in addition to the nine that Alabama Power was considering. Second, FERC agreed with Alabama Rivers Alliance that Alabama Power should evaluate the installation of a battery system that would store at least half the plant capacity for peak generation. This study would consider the feasibility and cost of such a system, including replacing or retrofitting the turbines.

Alabama Power completed year two of the study period and distributed the reports externally. Public meetings with the agencies and stakeholders began in April 2021. On June 29, 2021, Alabama Power filed the Preliminary License Proposal (PLP) for the Harris Project with FERC. FERC and stakeholders had until October 1, 2021 to provide comments. The Company filed the final license application with FERC on November 23, 2021. On December 23, 2021, FERC issued a letter requesting additional information on the Harris application to be filed within 90 days. On February 15, 2022, FERC requested further additional information on the Harris application to be filed within 60 days. Alabama Power submitted all the information requested by FERC. On April 14, 2022, FERC issued a notice for the Harris Project accepting the license application and soliciting motions to intervene and protests. Alabama Rivers Alliance, Lake Wedowee Property Owners Association and one downstream landowner filed motions to intervene. On August 28, 2022, FERC issued a third information request on the Harris project to which Alabama Power responded on December 27, 2022. On January 17, 2023, FERC issued its "Notice to Ready for Environmental Analysis, and Soliciting Comments, Recommendations, Preliminary Terms and Conditions and Preliminary Fish Passage Prescriptions", with comments due on or before March 20, 2023. FERC received comment letters to which Alabama Power responded on May 2, 2023.

Finally, on March 31, 2023, FERC issued a Notice of Intent to prepare an EIS with a target date for a draft to be issued in September and a final EIS by April 2024. On April 18, 2024, FERC issued an updated schedule for the issuance of the Harris Project draft EIS. The schedule stated that the draft EIS would be issued with a target date of July 2024, a public meeting in August and any comments due in September. Since that time, FERC had stated that a draft was expected in August and a public meeting would be held in September. However, FERC updated its schedule again to reflect the issuance of a draft EIS in November 2024. On November 21, 2024, FERC issued the draft EIS. Public meetings are scheduled for December 16 and 17, 2024 and comments are due to FERC by January 20, 2025. Alabama Power is currently reviewing the document. It is still expected that the FERC will issue a Final EIS in March of 2025 as required.

Endangered Species

Alabama is home to a growing list of threatened and endangered (**T&E**) species. One such species is the Gopher Tortoise, which has been listed as threatened in the western portions of south Alabama since 1987 and has been a candidate species for listing in the rest of south Alabama since 2011. Ongoing efforts by multiple agencies and organizations (including Alabama Power) are aimed at providing management tools that could eliminate the need for this additional level of protection. On October 11, 2022, the FWS determined that the eastern portion of Alabama was not warranted for listing and was removed from the candidate list.

In April 2015, the Northern Long-Eared Bat (**NLEB**) was listed as threatened and on March 22, 2022 FWS proposed to reclassify the species to endangered. FWS reclassified the NLEB to endangered on November 29, 2022. On September 13, 2022, FWS also proposed that the tricolored bat be listed as endangered and a decision is expected later this year. These listings, as well as the endangered Indiana Bat, have the potential to impact transmission line construction as

well as other projects that would require tree clearing. Responsive adjustments are being made to Alabama Power's operations, including efforts to clear in months when the bats are least likely to be impacted.

On October 4, 2017, FWS listed the Tri-spot Darter as threatened. This small fish is endemic to the upper Coosa River drainage in Alabama and Georgia, and is known to exist on land owned by Alabama Power. This listing could impact forest management activities in some areas. In September 2020, FWS designated critical habitat for the Tri-spot Darter. Some of the designated critical habitat overlaps Alabama Power property, which could impact future developments.

Alabama Power continues to address the impacts to its construction, maintenance and operations activities as threatened and endangered species are encountered.

TOXICS RELEASE INVENTORY

As part of the Emergency Planning and Community Right-to-Know Act (EPCRA), coal- and oilfired electric power plants began in 1999 to provide EPA with data relative to specific chemicals released in the burning of fossil fuels. The report is part of a provision of the act known as the Toxics Release Inventory (TRI). A number of other industries had been reporting under this provision since 1987. While TRI neither sets emission limits nor establishes discharge requirements, the information in the inventory is made public. Currently, EPA and EPRI studies on power plants show that chemical emissions of TRI substances from coal- and oil-fired plants are not present in the air at levels that should pose a concern to public health. Historically, the largest TRI releases from coal-fired power plants have consisted of acid gases such as hydrochloric acid, sulfuric acid and hydrogen fluoride. With the installation and operation of scrubbers at several plants, Alabama Power has reduced the release of these aerosols by 95 percent.

COAL COMBUSTION RESIDUALS

On April 17, 2015, EPA finalized the first comprehensive set of minimum requirements for coal ash management and disposal under Subtitle D of the Resource Conservation and Recovery Act (**RCRA**) (**CCR Rule**). EPA designed the rule to be "self-implementing"; however, on December 16, 2016, Congress amended Subtitle D of RCRA to allow states to seek EPA approval of a state Coal Combustion Residuals (**CCR**) permitting program under which individualized facility permits would operate in lieu of the national criteria in the CCR Rule.

EPA's CCR Rule provided two options to close ash ponds: closure by removal (excavation and transport to a landfill) or closure in place. ADEM implemented a state CCR permit program in 2018 with the same closure provisions as those of EPA. Beginning in 2018 and concluding in December 2021, ADEM provided information to EPA about the state program and requested EPA's approval. Once EPA approves a state CCR program, the state's ash pond permit governs the facility instead of federal regulations.

After completing its regulations, ADEM issued permits to Alabama Power and other utilities to close ash ponds in place. EPA did not object to those permits. Beginning in January 2022, EPA issued new interpretations of its regulations to prohibit closures with ash in contact with groundwater. EPA's actions were subsequently challenged in court and on June 28, 2024 the D.C. Circuit ruled in favor of the EPA.

EPA's Proposed Denial of ADEM's Program

On December 9, 2022, ADEM submitted a Notice of Intent to Sue letter to EPA regarding EPA's failure to act on ADEM's proposed state CCR Permitting Program, which was originally submitted to the EPA on December 29, 2021. ADEM filed suit against EPA on April 3, 2023. On August 14, 2023, EPA issued its proposed determination to deny ADEM's CCR permit program because, according to EPA, ADEM's program fails to comply with federal CCR standards or alternative criteria that are at least as protective as the federal CCR requirements.

EPA issued a pre-publication version of its final decision on May 23, 2024, formalizing its decision to deny ADEM's CCR Permitting Program. Although ADEM's CCR regulations largely mirror the federal CCR regulations, EPA is denying ADEM's application based on EPA's assessment of ADEM's interpretation of the CCR regulations and implementation of its permit program. The Final Denial became effective 30 days after date of publication in the Federal Register, which occurred on June 7, 2024. ADEM could challenge the denial in court.

Notice of Potential Violation (NOPV)

On January 31, 2023, EPA issued Alabama Power a Notice of Potential Violations and Opportunity to Confer letter regarding the ash pond closure at Plant Barry. The letter outlined potential violations of the federal CCR rule, specifically related to closure with ash in contact with groundwater as well as potential violations related to the groundwater monitoring system and emergency action plan. The Company has been proactive and transparent in providing EPA the technical and regulatory basis for its actions. Alabama Power responded to the NOPV and EPA's additional questions with:

• Five letters between March and July 2023 that provided approximately 85 pages of text and 101 attachments comprising more than 6,200 pages.

• An in-person meeting with EPA's technical experts and attorneys in Atlanta on May 9, 2023.

On December 6, 2023, EPA sent a letter stating that EPA's positions in its January 31 letter had not changed. The letter did not, however, include a formal allegation of violation and instead offered an opportunity for parties to pursue a resolution of the NOPV.

On September 25, 2024, Alabama Power and EPA entered into a Consent Agreement and Final Order for Plant Barry regarding additional actions the Company must take. The agreement resolves EPA's concerns about Alabama Power's groundwater monitoring system and emergency action plan. Importantly, nowhere in the agreement does EPA allege or determine that Alabama Power's CCR compliance program has affected any source of drinking water or otherwise endangered human life, animal or aquatic species, or the environment. Years of testing conducted by Alabama Power, as well as third-party expert reviews, have consistently shown no impact to the Mobile River.

As a condition of the agreement, the Company will add new groundwater monitoring wells to the already robust network of 38 wells at the site. The emergency action plan will be modified to include additional wording and descriptions to clarify the Company's preparedness for extreme weather conditions. The agreement also requires Alabama Power to pay a regulatory assessment fee.

Alabama Power continues to cooperate with ADEM with regarding to compliance with applicable CCR regulations.

On September 26, 2022, SELC, on behalf of the Mobile Baykeeper, filed suit against Alabama Power in the U.S. District Court for the Southern District of Alabama over the closure of the Plant Barry ash pond. The complaint alleges that the closure plan for the Plant Barry ash pond fails to meet the performance standards outlined in the CCR Rule. Magistrate Judge Sonja Bivins managed the initial proceedings in this case, including APC's motion to dismiss, APC's motion to certify a question of state law (collateral estoppel) to the Alabama Supreme Court, and the briefing on these matters. On September 30, 2023, Judge Bivins issued a Report and Recommendation that District Judge DuBose deny APC's motion to dismiss, and APC and Baykeeper filed responses on October 16 and October 27, 2023, respectively.

On November 2, 2023, Judge DuBose issued an order for the parties to file briefs on the issue of legal standing to sue and scheduled a hearing on standing as well as ripeness, The order also required a joint status report regarding other CCR-related proceedings, which the parties filed on December 8. The hearing took place on December 12, 2023.

On January 4, 2024, Judge DuBose issued an order granting Alabama Power's motion to dismiss Mobile Baykeeper's suit without prejudice. The order was based on standing and ripeness and did not include any findings on obligations under regulations for coal combustion residuals. On February 1, 2024, SELC filed for reconsideration of the order and APC filed its response on February 20, 2024. On July 22, 2024, the court denied Baykeeper's motion for reconsideration.

Baykeeper filed a notice of appeal with the U.S. Court of Appeals for the Eleventh Circuit on August 20, 2024. On its own initiative, the Eleventh Circuit scheduled a conference on October 8, 2024, to assess the suitability of the case to mediation. Baykeeper's brief on that issue was filed on October 15, 2024.

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While the Company believes its plans for closure and corrective actions are consistent with the requirements of the CCR Rule and ADEM's regulations, the risk of an adverse outcome remains. A requirement to close by removal would introduce new environmental risks, dramatically increase the costs of closure, extend the time required to close the facility well beyond current regulatory deadlines, and potentially impact the quality of life for residents near the plant sites (e.g., decades of constant truck traffic as part of the removal process).

Proposed Regulations

On May 18, 2023, EPA posted to the *Federal Register* the Proposed Legacy Surface Impoundment Rule. This rule proposes CCR management standards for legacy CCR surface impoundments, which are inactive surface impoundments at inactive power plants. Alabama Power does not believe it has any impoundments that fall under this rule, but the rule takes positions that could impact other CCR units. Southern Company submitted comments on the proposed rule on July 17, 2023. The proposed rule was sent to OMB for interagency review on March 15, 2024.

On May 8, 2024, EPA published to the Federal Register a final version of the Legacy Impoundment Rule. The rule became effective on November 8, 2024. The Company is currently evaluating the final rule to determine any affect it could have on the Company's CCR program.

ESTIMATED ENVIRONMENTAL CAPITAL EXPENDITURES FOR 2025–2029 Including Cost of Removal (Cost for Closure in Place Pursuant to CCR Rule) GENERATION

Table 1 – Summary of Generation Environmental Capital Expenditures for 2025–2029 (in thousands)

2025 Capital Budget*

	2025	2026	2027	2028	2029			
NOx Projects (SCRs)	13,582	21,823	13,185	8,463	11,855			
SO2 Projects (Scrubbers)	3,701	9,317	2,409	1,649	3,053			
CCR-LAND	6,481	3,031	588	-	288			
Effluent Guidelines/NPDES	31,531	55,107	87,024	200,151	50,148			
MATS	-	1,209	1,209		-			
Particulate Matter (PM)	3,811	4,271	1,459	1,612	1,199			
Hydro Aeration and Minimum Flow Projects	352	504	-	-	-			
CEMS Projects	349	2,775	2,332	278	840			
Sewage Treatment	-	-	•	300	-			
Cooling Tower/Intake Structure	7,576	12,197	6,564	4,438	2,152			
Environmental Projects - Total	67,383	110,233	114,770	216,891	69,536			
Air	21,444	39,395	20,594	12,001	16,948			
Land	6,481	3,031	588	-	288			
Water	39,458	67,808	93,589	204,889	52,300			
Environmental Projects - Total	67,383	110,233	114,770	216,891	69,536			
*Third party offsets are included in the numbers above which will be excluded in the Rate CNP, Part C filing								
Projections reflected in this document are subject to change based on various factors, including but not limited to future leg	islative and regulat	ory actions.						
Totals may not sum due to rounding								
Total CCR Expenditures (Including Cost of Removal by Closure in Place)								
	2025	2026	2027	2028	2029			
Capital Expenditures for CCR	6,481	3,031	588	0	288			
Cost of Removal (Closure in Place) for CCR								
(Not included in above dollars)	363,957	299,421	236,733	216,413	281,933			
Total CCR	370,438	302,452	237,321	216,413	282,221			
Totals may not sum due to rounding								

Table 2 – Summary by Plant of Environmental Capital Expenditures for 2025–2029 (in thousands)

2025 Capital Budget

	2025	2026	2027	2028	2029		
Total Barry	8,551	20,841	8,639	6,685	6,728		
CEMS Projects	-	700	-	-	-		
CCR-LAND	4,623	1,180	300	-	-		
NOx Projects (SCRs)	-	3,500	-	-	-		
SO2 Projects (Scrubbers)	600	7,150	300	-	-		
Effluent Guidelines/NPDES	3,328	3,728	3,378	6,435	6,728		
MATS	-	250	250	-	-		
Cooling Tower/Intake Structure	-	4,333	4,411	150	-		
Total Gaston	10,429	19,100	591	3,007	550		
NOx Projects (SCRs)	3,076	4,993	-	205	-		
SO2 Projects (Scrubbers)	876	-	-	-	55		
Effluent Guidelines/NPDES	5,088	12,018	137	248	241		
CEMS Projects	-	-	-	-	-		
CCR-LAND	125	-	-	-	-		
Cooling Tower/Intake Structure	254	461	454	2,254	254		
Particulate Matter (PM)	1,009	1,628	-	-	-		
Sewage Treatment	-	-	-	300	-		
Total Greene Co	5,754	5,809	30	30	30		
CEMS Projects	129	-	-	-	-		
Effluent Guidelines/NPDES	30	30	30	30	30		
Cooling Tower/Intake Structure	5,595	5,778	-	-	-		
Total Miller	38,550	62,055	101,879	204,993	58,530		
NOx Projects (SCRs)	9,506	13,330	12,185	8,258	10,855		
SO2 Projects (Scrubbers)	2,225	2,167	2,109	1,649	2,998		
Particulate Matter (PM)	2,802	2,643	1,459	1,612	1,199		
CCR-LAND	1,733	1,851	288	-	288		
MATS	-	959	959	-	-		
CEMS Projects	-	1,975	2,100	37	40		
Effluent Guidelines/NPDES	22,284	39,131	82,779	193,438	43,149		
Total Other*	4,099	2,429	3,631	2,275	3,698		
Cooling Tower/Intake Structure	1,727	1,625	1,699	2,034	1,898		
Effluent Guidelines/NPDES	800	200	700	-	•		
CEMS Projects	220	100	232	241	800		
NOx Projects (SCRs)	1,000	-	1,000	-	1,000		
Hydro Aeration and Minimum Flow Projects 352 504							
*Third party offsets are included in the numbers above which will be excluded in the Rate CNP, Part C filing							
Totals may not sum due to rounding							

Table 2 – Summary by Plant of Environmental Capital Expenditures for 2025–2029 (continued) (in thousands)

Total CCR Expenditures (Including Cost of Removal by Closure in Place)							
	2025	2026	2027	2028	2029		
Barry Capital Expenditures for CCR	4,623	1,180	300	-	-		
Barry Cost of Removal (Closure in Place) for CCR							
(Not included in above amounts)	100,058	88,836	91,688	89,040	86,034		
Barry Total CCR	104,681	90,016	91,988	89,040	86,034		
Gadsden Capital Expenditures for CCR	-	-	-	-	-		
Gadsden Cost of Removal (Closure in Place) for CCR							
(Not included in above amounts)	1,153	1,177	1,200	1,225	1,252		
Gadsden Total CCR	1,153	1,177	1,200	1,225	1,252		
Gaston Capital Expenditures for CCR	125	-	-	-	-		
Gaston Cost of Removal (Closure in Place) for CCR							
(Not included in above amounts)	22,018	18,543	4,293	6,978	7,130		
Gaston Total CCR	22,143	18,543	4,293	6,978	7,130		
Gorgas Capital Expenditures for CCR	-	-	-	-	-		
Gorgas Cost of Removal (Closure in Place) for CCR							
(Not included in above amounts)	141,611	110,168	99,634	112,434	184,090		
Gorgas Total CCR	141,611	110,168	99,634	112,434	184,090		
Greene Co. Capital Expenditures for CCR	-	-	-	-	-		
Greene Co. Cost of Removal (Closure in Place) for CCR							
(Not included in above amounts)	43,660	18,264	1,398	1,428	1,459		
Greene Co. Total CCR	43,660	18,264	1,398	1,428	1,459		
Miller Capital Expenditures for CCR	1,733	1,851	288	-	288		
Miller Cost of Removal (Closure in Place) for CCR							
(Not included in above amounts)	55,457	62,433	38,520	5,307	1,968		
Miller Total CCR	57,190	64,284	38,808	5,307	2,256		
	-				-		
Totals may not sum due to rounding							

Table 3(a) – Plant Barry Environmental Capital Expenditures for 2025–2029(in thousands)

2025 Capital Budget

	DESCRIPTION	2025	2026	2027	2028	2029
BARRY	Barry Unit 5 SCR Catalyst Replacement	-	3,000	-	-	-
BARRY	Barry Unit 5 SCR Expansion Joints	-	500	-	-	-
BARRY	Barry Unit 5 Jet Bubbling Reactor Alignment Grid Replacement	300	4,500	-	-	-
BARRY	Barry Unit 5 Scrubber Duct Expansion Joints	-	1,000	-	-	-
BARRY	Barry Unit 5 FGD Motors	100	100	100	-	-
BARRY	Barry Unit 5 FGD Pumps	200	200	200	-	-
BARRY	Barry Unit 5 Jet Bubbling Reactor Gearbox Replacement	-	1,000	-	-	-
BARRY	Barry Unit 5 Gas Cooling Duct Expansion Joints	-	350	-	-	-
BARRY	Barry Unit 5 Bottom Ash Clinker Grinder	-	180	-	-	-
BARRY	Barry Unit 5 Remote Submerged Chain Conveyor Chain Replacement	-	700	-	-	-
BARRY	Barry Unit 5 Remote Submerged Chain Conveyor Motors	100	100	100	-	-
BARRY	Barry Unit 5 Remote Submerged Chain Conveyor Pumps	200	200	200	-	-
BARRY	Barry Common Ash Pond Non ARO	4,323	-	-	-	-
BARRY	Barry Common Environmental Transformer	-	-	-	2,000	5,000
BARRY	Barry Common Effluent Limitation Guidelines	3,000	3,000	3,000	3,000	1,500
BARRY	Barry Common Environmental 4160 Switchgear Bus Breakers	-	-	50	-	-
BARRY	Barry Common Gravity Filter Feed Pump Motor/VFD Replacement	-	-	-	50	-
BARRY	Barry Common Gravity Filter Feed Pump Replacement	-	-	-	40	-
BARRY	Barry Common Lagoon A Pump Motor Replacement	-	-	-	28	-
BARRY	Barry Common Lagoon A Pump Replacement	-	-	-	30	-
BARRY	Barry Common Lagoon B Pump Motor Replacement	-	-	-	30	-
BARRY	Barry Common Lagoon B Pump Replacement	-	-	-	27	-
BARRY	Barry Common Landfill Sump Pump Motor Replacement	-	-	-	42	-
BARRY	Barry Common Landtill Sump Pump Replacement	-	-	-	45	-
BARRY	Barry Common Low Volume Waste Water 4160 Switchgear	-	-	50	-	-
BARRY	Barry Common Low Volume Waste Water 480 MCC Breakers	-	-	50	-	-
BARRY	Barry Common Low Volume Waste Water Collection Sump Pump Motor Replacement	-	-	-	25	-
BARRY	Barry Common Low Volume Waste Water Collection Sump Pump Replacement	-	-	-	25	-
BARRY	Barry Common Low Volume Waste Water Effluent Sump Pump Motor Replacement	-	-	-	15	-
BARRY	Barry Common Low Volume Waste Water Effluent Sump Pump Motor VFD Replacement	-	-	-	15	-
BARRY	Barry Common Low Volume Waste Water Feed Pump Motor/VFD Replacement	-	-	-	150	-
BARRY	Barry Common Low Volume Waste Water Feed Pump Replacement	-	-	•	37	-
BARRY	Barry Common Low Volume waste water Simulator Replacement	-	500	-	-	-
BARRY	Barry Common Mother Sump Pump Motor Replacement	50	50	50	50	50
BARRY	Barry Common Mother Sump Pump Motor VFD Replacement	38	38	38	38	38
DARKI	Barry Common Mother Sund Pump Replacement	/5	/3	/3	/5	/5
DARKI	Barry Common Intecher Mechanism Replacement	100	-		15	-
DARKI	Barry Common Misc Pumps/valves	100			600	65
RADDV	Barry Common Lab Analyzer Opgrades ECO	05	03	03	33	03
BARRY	Barry Common Low volume water concerton samp rump replacement				100	
BARRY	Barry Common Werker V Monton Repartment		200		100	
BARRY	Barry Unit 1 CFMS		250			
BARRY	Barry Unit 2 CFMS	-	250		-	-
BARRY	Barry Unit 5 PM CEMS - MATS	-	250	250	-	-
BARRY	Barry Unit 4 Intake Screens		4,333	4,411	-	-
BARRY	Barry Unit 5 ID Fan Lube Oil Cooling Tower Media	-	-		150	
	Total Barry	8,551	20,841	8,639	6,685	6,728
	CEMS Projects		700		-	
	CCR-LAND	4,623	1,180	300	-	-
	NOx Projects (SCRs)	-	3,500	-	-	-
	SO2 Projects (Scrubbers)	600	7,150	300	-	-
	Effluent Guidelines/NPDES	3,328	3,728	3,378	6,435	6,728
	MATS	-	250	250	-	-
	Cooling Tower/Intake Structure	-	4,333	4,411	150	
Totals may not sum due to rounding						
Total Plant Barr	y CCR Expenditures (Including Cost of Removal by Closure in Place)					
	DESCRIPTION	2025	2026	2027	2028	2029
Barry	Barry Capital Expenditures for CCR	4,623	1,180	300	-	
_	Barry Cost of Removal (Closure in Place) for CCR	-,	2,200	200		
Barry	(Not included in above amounts)	100,058	88,836	91,688	89,040	86,034
	Barry Total CCR	104,681	90,016	91,988	89,040	86,034
Totals may not sum due to rounding						
Table 3(b) – Plant Gadsden Environmental Capital Expenditures for 2025–2029(in thousands)

Total Plant Gads	den CCR Expenditures (Including Cost of Removal by Closure i	n Place)				
	DESCRIPTION	2025	2026	2027	2028	2029
Gadsden	Gadsden Capital Expenditures for CCR	-				-
Cadadan	Gadsden Cost of Removal (Closure in Place) for CCR				i – – – – – – – – – – – – – – – – – – –	
Gausuen	(Not included in above amounts)	1,153	1,177	1,200	1,225	1,252
	Gadsden Total CCR	1,153	1,177	1,200	1,225	1,252
Totals may not sum due	e to rounding					

Table 3(c) – Plant Gaston Environmental Capital Expenditures for 2025–2029(in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
GASTON	Gaston Unit 5 Add CO Catalyst	2,048	3,182	-	-	-
GASTON	Gaston Unit 5 ECO Replace SCR Air Compressors	-	-	-	205	-
GASTON	Gaston Unit 5 Replace SCR Flue Gas Fans	26	-	-	-	-
GASTON	Gaston Unit 5 SCR Catalyst Replacement	1,002	1,811	-	-	-
GASTON	Gaston Unit 5 Gypsum Clear Pond Pumps	-	-	-	-	55
GASTON	Gaston Unit 5 ECO Freeze Protection	748	-	-	-	-
GASTON	Gaston Unit 5 Replace Limestone Batteries	128	-	-	-	-
GASTON	Gaston Unit 5 Cooling Tower Bleach Dechlorination Pump	-	20	-	-	-
GASTON	Gaston Unit 5 Cooling Tower Bleach Injection Tank	-	80	-	-	-
GASTON	Gaston Unit 5 Cooling Tower Fill Replacement	-	-	-	2,000	-
GASTON	Gaston Unit 5 Cooling Tower Gearboxes/Blades	254	254	254	254	254
GASTON	Gaston Unit 5 SCR and Cooling Tower Controls Upgrade	-	-	200	-	-
GASTON	Gaston Unit 5 Closed Cycle Cooling Monitor	-	107	-	-	-
GASTON	Gaston Unit 5 Dry Stack Expansion Joints	-	600	-	-	-
GASTON	Gaston Unit 5 Dry Stack Phase 2 & 3	1,002	1,029	-		-
GASTON	Gaston Unit 5 Transformer Rectifiers for Precipitator	7	-	-	-	-
GASTON	Gaston Unit 5 Fly Ash Handling Vacuum Pump Replacement	125	-	-	-	-
GASTON	Gaston Unit 5 Gas Conversion Project	4,956	11,909	-	-	-
GASTON	Gaston Unit 5 Low Volume Waste Water Pond Chemical Island Pumps	25	-	25	-	25
GASTON	Gaston Unit 5 Low Volume Waste Water Analyzers	-	-	-	45	-
GASTON	Gaston Unit 5 Replace ECO Fan Yard Sumps	107	109	111	113	123
GASTON	Gaston Unit 5 Chemical Tanks and Piping	-	-	-	90	92
GASTON	Gaston Unit 5 Sewage Plant Filter Replacement	-	-	-	52	-
GASTON	Gaston Unit 5 Sewage Plant Screen Replacement	-	-	-	248	-
	Total Gaston	10,429	19,100	591	3,007	550
	NOx Projects (SCRs)	3,076	4,993	-	205	-
	SO2 Projects (Scrubbers)	876	-	-	-	55
	Effluent Guidelines/NPDES	5,088	12,018	137	248	241
	CEMS Projects	-	-	-	-	-
	CCR-LAND	125	-	-	-	-
	Cooling Tower/Intake Structure	254	461	454	2,254	254
	Particulate Matter (PM)	1,009	1,628	-	-	-
	Sewage Treatment	-	-	-	300	-
Totals may not sum due t	o rounding					
Total Plant Gast	on CCR Expenditures (Including Cost of Removal by Closure in	Place)				
	DESCRIPTION	2025	2026	2027	2028	2029
Gaston	Gaston Capital Expenditures for CCR	125	-	-	-	-
Genter	Gaston Cost of Removal (Closure in Place) for CCR					
Gaston	(Not included in above amounts)	22,018	18,543	4,293	6,978	7,130
	Gaston Total CCR	22,143	18,543	4,293	6,978	7,130
Totals may not sum due t	o rounding					

Table 3(d) – Plant Gorgas Environmental Capital Expenditures for 2025–2029(in thousands)

Total Plant Gorg	as CCR Expenditures (Including Cost of Removal by Closure in	Place)				
	DESCRIPTION	2025	2026	2027	2028	2029
Gorgas	Gorgas Capital Expenditures for CCR	-	-			
Carrasa	Gorgas Cost of Removal (Closure in Place) for CCR					
Gorgas	(Not included in above amounts)	141,611	110,168	99,634	112,434	184,090
	Gorgas Total CCR	141,611	110,168	99,634	112,434	184,090
Totals may not sum due	to rounding					

Table 3(e) – Plant Greene Co. Environmental Capital Expenditures for 2025–2029(in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
GREENE CO	Greene County Unit 1 & 2 Low Volume Waste Water	30	30	30	30	30
GREENE CO	Greene County Unit 1 & 2 CEMS	129	-	-	-	-
GREENE CO	Greene County Unit 1 & 2 Intake Screens	5,595	5,778	-	-	-
	Total Greene Co	5,754	5,809	30	30	30
	CEMS Projects	129	-	-	-	-
	Effluent Guidelines/NPDES	30	30	30	30	30
	Cooling Tower/Intake Structure	5,595	5,778	-	-	-
Totals may not sum due to Total Plant Gree	^{o rounding} ne Co. CCR Expenditures (Including Cost of Removal by Closur	e in Place	e)			
	DESCRIPTION	2025	2026	2027	2028	2029
Greene Co.	Greene Co. Capital Expenditures for CCR	-	-	-	-	-
Creare Ca	Greene Co. Cost of Removal (Closure in Place) for CCR					
Greene co.	(Not included in above amounts)	43,660	18,264	1,398	1,428	1,459
	Greene Co. Total CCR	43,660	18,264	1,398	1,428	1,459
Totals may not sum due to	o rounding					

Table 3(f) – Plant Miller Environmental Capital Expenditures for 2025–2029(in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
MILLER	Miller Unit 1 Replace SCR Air Cannons	-	93	-	-	-
MILLER	Miller Unit 1 Replace SCR Ammonia Vaporization Skid	-	278	-	-	-
MILLER	Miller Unit 1 Replace SCR Catalyst	1,375	4,584	-	-	-
MILLER	Miller Unit 1 Replace SCR Catalyst	-	-	688	2,296	-
MILLER	Miller Unit 1 Replace SUR Latalyst	-	-	-	-	1,375
MILLER	Miller Unit 1 Replace Strew Feeder Miller Unit 1 Replace Fly Ash Seg/Dust Valves	37				
MILLER	Miller Unit 1 Replace Unit Seg Valves	69	-	-	-	-
MILLER	Miller Unit 1 Replace Dry Stack Exp Joint	-	69	-	-	-
MILLER	Miller Unit 1 Replace Fly Ash Air Compressors	-	367	-	-	-
MILLER	Miller Unit 1 Replace Fly Ash Seg/Dust Valves	-	37	-	-	-
MILLER	Miller Unit 1 Replace Precip Inlet Exp Joint	-	370	-	-	-
MILLER	Miller Unit 1 Replace Unit Seg Valves	-	69	- 37	-	
MILLER	Miller Unit 1 Replace Unit Seg/Dust valves	-	-	69	-	-
MILLER	Miller Unit 1 Replace Fly Ash Seg/Dust Valves	-	-	-	37	-
MILLER	Miller Unit 1 Replace Unit Seg Valves	-	-	-	69	-
MILLER	Miller Unit 1 Replace Fly Ash Seg/Dust Valves	-	-	-	-	37
MILLER	Miller Unit 1 Replace Unit Seg Valves	-	-	-	-	69
MILLER	Miller Unit 1 Replace FGD Absorber Duct Work Exp Joints	-	46	-	-	-
MILLER	Miller Unit 1 Replace Dry Bottom Ash Transport Line	182	324			
MILLER	Miller Unit 2 Replace SCR Air Cannons	- 103	93			
MILLER	Miller Unit 2 Replace SCR Ammonia Vaporization Skid	-	279	-	-	-
MILLER	Miller Unit 2 Replace SCR Catalyst	1,348	4,567	-	-	-
MILLER	Miller Unit 2 Replace SCR Ash Popcorn Screens	-	-	-	795	-
MILLER	Miller Unit 2 Replace SCR Catalyst	-	-	687	2,145	-
MILLER	Miller Unit 2 Replace SCK Catalyst	-	-	-	- 330	251
MILLER	Miller Unit 2 Replace Fly Ash Seg/Dust Valves	37	-	-	-	- 251
MILLER	Miller Unit 2 Replace Unit Seg Valves	70	-	-	-	-
MILLER	Miller Unit 2 Replace Dry Stack Expansion Joint	-	70	-	-	-
MILLER	Miller Unit 2 Replace Fly Ash Air Compressors	-	375	-	-	-
MILLER	Miller Unit 2 Replace Fly Ash Seg/Dust Valves	-	37	-	-	-
MILLER	Miller Unit 2 Replace Precip Inlet Exp Joint	-	372	-	-	-
MILLER	Miller Unit 2 Replace Fly Ash Seg/Dust Valves		- 70	- 37		
MILLER	Miller Unit 2 Replace Unit Seg Valves	-	-	70	-	-
MILLER	Miller Unit 2 Replace Clinker Grinders	-	-	-	701	•
MILLER	Miller Unit 2 Replace Fly Ash Seg/Dust Valves	-	-	-	37	-
MILLER	Miller Unit 2 Replace Unit Seg Valves	-	-	-	70	-
MILLER	Miller Unit 2 Replace Fly Ash Seg/Dust Valves	-	-	-	-	37
MILLER	Miller Unit 2 Replace FGD Absorber Duct Work Expansion Joints		46			
MILLER	Miller Unit 2 Replace FGD Mist Eliminator Piping	-	325	-	-	-
MILLER	Miller Unit 2 Replace Booster Fan Hub A&B	-	-	-	1,168	-
MILLER	Miller Unit 2 Replace FGD Absorber Duct Work Expansion Joints	-	-	-	47	-
MILLER	Miller Unit 2 Replace Dry Bottom Ash Transport Line	1,405	-	-	-	-
MILLER	Miller Unit 3 Replace SCR Ammonia Vaporization Skid	302	-	-	-	-
MILLER	Miller Unit 3 Replace SCR Latalyst	2,485	-	-	-	-
MILLER	Miller Unit 3 Replace SCR Air Cannons		-	101	-	-
MILLER	Miller Unit 3 Replace SCR Ash Popcorn Screens	-	-	855	-	-
MILLER	Miller Unit 3 Replace SCR Catalyst	-	1,498	4,963	-	-
MILLER	Miller Unit 3 Replace SCR FGAS Fans	-	75	679	-	-
MILLER	Miller Unit 3 Replace SCR Catalyst	-	-	-	749	2,512
MILLER	Miller Unit 3 Replace SCR FGAS I&L Equipment	-	- 250	- 270	- 124	-
MILLER	Miller Unit 3 Dry Stack Expansion Joint	76	-	- 270	- 124	-
MILLER	Miller Unit 3 Replace Fly Ash Seg/Dust Valves	40	-		-	
MILLER	Miller Unit 3 Replace Fly Ash Transfer Vessel Discharge Pipe	504	-	-	-	-
MILLER	Miller Unit 3 Replace Precip Outlet Expansion Joint	504	-	-	-	-
MILLER	Miller Unit 3 Replace Unit Seg Valves	76	-	-	-	-
MILLER	Miller Unit 3 Replace Fly Ash Seg/Dust Valves	-	40	-	-	-
MILLER	Miller Unit 3 Replace Clinker Grinders		/6	- 755	-	
MILLER	Miller Unit 3 Replace Fly Ash Seg/Dust Valves	-	-	40	-	
MILLER	Miller Unit 3 Replace Unit Seg Valves	-	-	75	-	-
MILLER	Miller Unit 3 Replace Fly Ash Seg/Dust Valves	-	-	-	40	-
MILLER	Miller Unit 3 Replace Unit Seg Valves	-	-	-	75	-
MILLER	Miller Unit 3 Replace Fly Ash Seg/Dust Valves	-	-	-	-	40
MILLER	Miller Unit 3 Replace Unit Seg Valves	-	-	-	-	75

Table 3(f) – Plant Miller Environmental Capital Expenditures for 2025–2029(in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
MILLER	Miller Unit 3 Replace FGD Absorber Duct Work Expansion Joints	50		-		
MILLER	Miller Unit 3 Replace FGD Mist Eliminator Piping	-	-	352	-	-
MILLER	Miller Unit 3 Replace FGD Absorber Duct Work Expansion Joints	-	-	50	-	-
MILLER	Miller Unit 3 Replace Booster Fan Hub A&B	-	-		-	1.237
MILLER	Miller Unit 3 Replace Dry Bottom Ash Transport Line	-	1.002	-	-	-
MILLER	Miller Unit 4 Replace SCR Ammonia Vaporization Skid	302	-	-	-	-
MILLER	Miller Unit 4 Replace SCR Catalyst	2,487	-	-	-	-
MILLER	Miller Unit 4 Replace SCR FGAS Shelter I&C Equipment	503	-	-	-	-
MILLER	Miller Unit 4 Replace SCR Ash Popcorn Screens	-	-	855	-	-
MILLER	Miller Unit 4 Replace SCR Air Cannons	-	-	101	-	-
MILLER	Miller Unit 4 Replace SCR Catalyst	-	1,414	2,539	-	-
MILLER	Miller Unit 4 Replace SCR Catalyst	-	-	-	1,498	5,023
MILLER	Miller Unit 4 Replace SCR FGAS Fans	-	-	-	75	679
MILLER	Miller Unit 4 Replace Screw Feeder	-	-	250	248	122
MILLER	Miller Unit 4 Replace Dry Stack Expansion Joint	76	-	-	-	-
MILLER	Miller Unit 4 Replace Fly Ash Seg/Dust Valves	40	-	-	-	-
MILLER	Miller Unit 4 Replace Fly Ash Transfer Vessel Discharge Pipe	503	-	-	-	-
MILLER	Miller Unit 4 Replace Precipitator Outlet Expansion Joint	503	-	-	-	-
MILLER	Miller Unit 4 Replace Unit Seg Valves	76	-	-	-	
MILLER	Miller Unit 4 Replace Fly Ash Air Compressors	-	403			
MILLER	Miller Unit 4 Replace Fly Ash Seg/Dust Valves	-	40	-		-
MILLER	Miller Unit 4 Replace Unit Seg Valves	-	/6	-	-	
MILLER	Miller Unit 4 Replace Try Asii Seg/Dust valves	-	- 78	40	-	
MILLER	Miller Unit 4 Replace Fly Ach Sog/Dust Valves		70		40	
MILLER	Miller Unit 4 Replace Unit Seg Valves				76	
MILLER	Miller Unit 4 Replace Clinker Grinders	-		-	-	754
MILLER	Miller Unit 4 Replace Fly Ash Seg/Dust Valves	-	-	-	-	40
MILLER	Miller Unit 4 Replace Unit Seg Valves	-	-	-	-	76
MILLER	Miller Unit 4 Replace FGD Absorber Duct Work Expansion Joints	50	-	-	-	-
MILLER	Miller Unit 4 Replace FGD Mist Eliminator Piping	-	-	377	-	-
MILLER	Miller Unit 4 Replace Booster Fan Hub A&B	-	-	-	-	1,220
MILLER	Miller Unit 4 Replace FGD Absorber Duct Work Expansion Joints	-	-	-	-	50
MILLER	Miller Unit 4 Replace Dry Bottom Ash Transport Line	-	705	-	-	-
MILLER	Miller Common Units 1-4 Replace Waste Water Misc Valves	216	-	-	-	-
MILLER	Miller Common Units 1-4 Replace Waste Water Misc Valves	-	96	-	-	-
MILLER	Miller Common Units 1-4 Replace Waste Water Pipe Trains Ballast to Polymer Tank	72	144	-	-	-
MILLER	Miller Common Units 1-4 Replace Waste Water Solids Recycle Skid Flow Control Valves	120	120	-	-	-
MILLER	Miller Common Units 1-4 Waste Water Lifent & Server Upgrade	480	480	- 04	-	-
MILLER	Miller Common Units 1-4 Replace Waste Water Forwarding Pump	-		90	264	
MILLER	Miller Common Units 1-4 Replace Waste Water For warding Fump				86	
MILLER	Miller Common Units 1-4 Replace Waste Water Misc Valves	-	-	-	96	-
MILLER	Miller Common Units 1-4 Replace Waste Water Cell Discharge Pump	-	-	-	-	369
MILLER	Miller Common Units 1-4 Replace Waste Water Misc Valves	-	-	-	-	96
MILLER	Miller Common Units 1-4 Closed-Loop Recycling Zero Liquid Discharge System	2,782	5,563	13,717	27,433	5,563
MILLER	Miller Common Units 1-4 FGDW Zero Liquid Discharge Treatment System	17,649	31,941	68,966	165,558	37,121
MILLER	Miller Common Units 1-4 Replace ECO Freeze Protection	484	296	-	-	-
MILLER	Miller Common Units 1-4 Install Freeze Prot ECO	481	490	-	-	-
MILLER	Miller Common Units 1-4 Replace Calcium Chloride Skid	192	-	-	-	-
MILLER	Miller Common Units 1-4 Replace Silo Condition Water Pumps	-	96	-	-	-
MILLER	Miller Common Units 1-4 Replace Silo Condition Water Pumps	-	-	-	96	-
MILLER	Miller Common Units 1-4 Dry Asn Client & Server Opgrade	-	-	331	369	-
MILLER	Miller Common Units 1-4 ECD Deviatoring Cloth Filter Balt A	240	-	-	-	-
MILLER	Miller Common Units 1-4 FGD Dewatering Main Filter Belt A	169				
MILLER	Miller Common Units 1-4 Install Dewatering Auto transfer switch 480v source	48	-	-		-
MILLER	Miller Common Units 1-4 Install FGD Makeun Water IV Treatment	288	-	-	-	-
MILLER	Miller Common Units 1-4 Replace FGD Absorber PH Meters	82	-	-	-	-
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Misc Valves	67	-	-	-	-
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Optimization Flow Meters & Pipe	288	-	-	-	-
MILLER	Miller Common Units 1-4 Replace Racking Motors ECO	48		-	-	-
MILLER	Miller Common Units 1-4 ECO HVAC Replacements	-	240	-	-	-
MILLER	Miller Common Units 1-4 FGD Dewatering Cloth Filter Belt B	-	38	-	-	-
MILLER	Miller Common Units 1-4 FGD Dewatering Main Filter Belt B	-	366	-	-	-
MILLER	Miller Common Units 1-4 Replace FGD Hydrocyclone A&B	240	240	-	•	-
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Misc Valves	-	67	-	-	-
MILLER	Miller Common Units 1-4 Replace FGD waste water Sludge Pump Skids	240	40	-	-	-
MILLER	Miller Common Units 1-4 ECO HVAC Penlacements	-	40	321		
MILLER	Miller Common Units 1-4 ECO InvAc Replacements			38		
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Misc Valves	-	-	67	-	-
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Off Spec Agitator	-	-	192	-	-
MILLER	Miller Common Units 1-4 Replace Racking Motors ECO	-	-	48	-	-
MILLER	Miller Common Units 1-4 ECO HVAC Replacements	-	-	-	280	-
MILLER	Miller Common Units 1-4 FGD Dewatering Cloth Filter Belt B	-	-	-	38	-
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Misc Valves	-	-	-	67	-
MILLER	Miller Common Units 1-4 Replace Racking Motors ECO	-	-	-	48	-
MILLER	Miller Common Units 1-4 ECO HVAC Replacements	-	-	-	-	268
MILLER	Miller Common Units 1-4 FGD Dewatering Cloth Filter Belt A	-	-	-	-	38
MILLER	Miller Common Units 1-4 Replace FGD Waste Water HCOF Agitator	-	-	-	-	34
MILLER	Miller Common Units 1-4 Replace FGD Waste Water Large Agitator Gearbox	-	-	-	-	35
MILLER	Miller Common Units 1-4 Replace Public Waste Water Misc valves	-	•	-	-	6/
MILLER	Miller Common Units 1-4 Replace Rottom Ash Paddla Mixors	144	144			48
MILLER	Miller Common Units 1-4 Replace Bottom Ash Transport Exhausters	144	144	289		
MILLER	Miller Common Units 1-4 Replace Bottom Ash Transport Exhausters					288

Table 3(f) – Plant Miller Environmental Capital Expenditures for 2025–2029(in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
MILLER	Miller Common Units 1-4 PM CEMS - MATS	-	959	959	-	-
MILLER	Miller Common Units 1&2 Replace FGD Inlet CEMS Shelter	-	321	-	-	-
MILLER	Miller Common Units 1&2 Replace FGD Stack CEMS Shelter	-	689	-	-	-
MILLER	Miller Common Units 1&2 Replace Mercury Inlet CEMS Sample Umbilical	-	230	-	-	-
MILLER	Miller Common Units 1&2 Replace Stack Mercury CEMS Shelter	-	735	-	-	-
MILLER	Miller Common Units 1&2 Replace PA Compressor FGD Inlet CEMS Shelter	-	-	-	37	-
MILLER	Miller Common Units 1&2 Install A Auto transfer switch 480v source	46	-	-	-	-
MILLER	Miller Common Units 1&2 Install B Auto transfer switch 480v source	46	-	-	-	-
MILLER	Miller Common Units 1&2 Replace SCR Air Compressors	184	184	183	-	-
MILLER	Miller Common Units 1&2 Replace FGD DGA Monitors on Transformers	-	-	230	-	-
MILLER	Miller Common Units 3&4 Replace SCR Air Compressors	200	201	199	-	-
MILLER	Miller Common Units 3&4 Replace FGD Inlet CEMS Shelter	-	-	350	-	-
MILLER	Miller Common Units 3&4 Replace Mercury Inlet CEMS Sample Umbilical	-	-	200	-	-
MILLER	Miller Common Units 3&4 Replace Stack Mercury CEMS Shelter	-	-	800	-	-
MILLER	Miller Common Units 3&4 Replace FGD Stack CEMS Shelter	-	-	750	-	-
MILLER	Miller Common Units 3&4 Replace PA Compressor for FGD Inlet CEMS Shelter	-	-	-	-	40
MILLER	Miller Common Units 3&4 Install A Auto transfer switch 480v source	50	-	-	-	-
MILLER	Miller Common Units 3&4 Install B Auto transfer switch 480v source	50	-	-	-	-
MILLER	Miller Common Units 3&4 Replace FGD DGA Monitors on Transformers	-	-	250	-	-
	Total Miller	38,550	62,055	101,879	204,993	58,530
	NOx Projects (SCRs)	9,506	13,330	12,185	8,258	10,855
	SO2 Projects (Scrubbers)	2,225	2,167	2,109	1,649	2,998
	Particulate Matter (PM)	2,802	2,643	1,459	1,612	1,199
	CCR-LAND	1,733	1,851	288	-	288
	MATS	-	959	959	-	-
	CEMS Projects	-	1,975	2,100	37	40
	Effluent Guidelines/NPDES	22,284	39,131	82,779	193,438	43,149
Totals may not sum due to	o rounding					
Total Plant Mille	r CCR Expenditures (Including Cost of Removal by Closure in I	Place)				
	DESCRIPTION	2025	2026	2027	2028	2029
Miller	Miller Capital Expenditures for CCR	1.733	1.851	288		288
	Miller Cost of Removal (Closure in Place) for CCR	,	1.1-			
Miller	(Not included in above amounts)	55.457	62.433	38.520	5.307	1.968
	Miller Total CCR	57.190	64.284	38.808	5.307	2.256
Totals may not sum due to	o rounding					
	· · · · · · · · · · · · · · · · · · ·					

Table 4 – Other Generation Environmental Capital Expenditures for 2025–2029(in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
WASHINGTON CO	Cooling Tower Drift Eliminator Media	-	-	-	100	-
WASHINGTON CO	Cooling Tower Media	-	-	-	350	-
WASHINGTON CO	Cooling Tower Structure	300	300	300	300	300
WASHINGTON CO	Waste Water Cooling Tower	-	-	-	-	200
WASHINGTON CO	Cooling Tower Gearboxes	80	80	80	80	80
WASHINGTON CO	Waste Water Cooling Tower Media	-	-	-	-	100
WASHINGTON CO	Neutralization Tank and System	-	-	500	-	-
WASHINGTON CO	Service Water Tower	300	-	-	-	-
THEODORE	Cooling Tower Gearboxes	-	-	-	-	156
THEODORE	Cooling Tower Structure	300	300	300	300	350
THEODORE	Units 1-4 Replace Turbimeters Low Volume Waste Water	-	200	200	-	-
BARRY CC	Barry Unit 6 Replace CEMS Monitoring Equipment	-	-	-	-	350
BARRY CC	Barry Unit 7 Replace CEMS Monitoring Equipment	-	-	-	-	350
BARRY CC	Barry Unit 6&7 Cooling Tower Structure	300	300	300	300	300
BARRY CC	Barry Unit 6&7 Cooling Tower Gear Box Vibration Monitoring System	-	-	250	-	-
BARRY CC	Barry Unit 8 Cooling Tower Structure	100	100	100	100	100
BARRY CC	Barry Unit 6 Cooling Tower Gearbox	80	80	80	80	80
BARRY CC	Barry Unit 7 Cooling Tower Gearbox	80	80	80	80	80
BARRY CC	Barry Unit 7 Cooling Tower Drift Eliminator Media Replacement	350	-	-	-	-
BARRY CC	Barry Unit 8 SCR Catalyst	1,000	-	1,000	-	1,000
CENTRAL ALABAMA	Cooling Tower Fan Gearbox	57	-	-	-	-
CENTRAL ALABAMA	Cooling Tower Fan	-	160	-	-	-
CENTRAL ALABAMA	Cooling Tower Fan Gearbox	-	114	-	-	-
CENTRAL ALABAMA	Cooling Tower Make-Up Pump & Motor	-	60	-	-	-
CENTRAL ALABAMA	Cooling Tower Make-Up Pump & Motor	-	-	66	-	-
CENTRAL ALABAMA	Cooling Tower Fan	-	-	-	172	-
CENTRAL ALABAMA	Cooling Tower Fan Gearbox	-	-	-	123	-
CENTRAL ALABAMA	Cooling Tower Fan Gearbox	-	-	61	-	-
CENTRAL ALABAMA	Cooling Tower Fan Gearbox	-	-	-	-	67
CENTRAL ALABAMA	Cooling Tower Structure	80	50	82	50	84
CENTRAL ALABAMA	Stack Expansion Joint	120	-	-	-	-
CENTRAL ALABAMA	Stack Expansion Joint	-	-	132	-	-
CENTRAL ALABAMA	Stack Expansion Joint	-	-	-	141	-
CALHOUN	Calhoun Common Gate Replacement Storm Water Retention Pond Outflow	500	-	-	-	-
CALHOUN	Common CEMS	100	100	100	100	100
	Total Other*	3,747	1,925	3,631	2,275	3,698
	Other Cooling Tower/Intake Structure	1,727	1,625	1,699	2,034	1,898
	Other Effluent Guidelines/NPDES	800	200	700	-	-
	Other NOx Projects (SCRs)	1,000	-	1,000	-	1,000
	Other CEMS Projects	220	100	232	241	800
*Third party offsets are included in the num	bers above which will be excluded in the Rate CNP, Part C filing					
Totals may not sum due to rounding						

Table 5 – Hydro Generation Environmental Capital Expenditures for 2025–2029 (in thousands)

	DESCRIPTION	2025	2026	2027	2028	2029
HYDRO	Coosa System - Adaptive Mgmt Plan for Habitat of Endangered Species	352	504	-	-	-
	Total Hydro	352	504	-	-	-
	Hydro Aeration and Minimum Flow Projects	352	504	-	-	-
Totals may not sum due to	rounding					

ESTIMATED ENVIRONMENTAL O&M EXPENSE FOR 2025–2029

Table 6 – Environmental O&M Expense for 2025–2029

Work Type	Environmental Activities	2025	2026	2027	2028	2029
E316A	316A Regulation	312,007	315,635	315,642	315,645	317,462
E316B	316B Regulation	920,570	857,141	780,063	700,004	703,824
EDISPD, EDISPS	Enviro Disposal Activity-Enviro Affairs Compliance	521,468	528,178	528,787	529,412	532,257
EHYDR1	Coosa/Warrior/Tallapoosa Shoreline Studies, ESA studies & cons	839,410	867,548	886,727	906,879	911,605
EHYDR6	Enviro Trout Stocking - Smith Tailrace	37,164	39,520	41,537	43,657	43,885
EHYDR11	Enviro Fish Culture Facility	647,273	688,303	723,429	760,364	764,327
EHYDR12	Enviro Fisheries Habitat Enhancement	486,229	517,050	543,437	571,183	574,160
EHYDR9	Enviro Wildlife Habitat Enhancement & Restoration	1,166,536	1,240,482	1,303,787	1,370,353	1,377,495
EMERC	Environmental Mercury Rata Testing	1,612,329	1,664,246	1,715,136	1,759,487	1,782,528
COMPENO,COMPENS,COMPENV	Compliance-Environmental	85,229,675	86,409,373	88,436,369	68,990,570	67,897,327
ASHSALE	Ash Sales	(11,411,210)	(11,615,434)	(10,623,743)	(10,836,217)	(11,052,942)
GYPSALE	Gypsum Sales	(1,503,987)	(1,619,067)	(784,448)	(800,137)	(816,140)
ASLUICE	Ash Sluice	125,333	129,999	107,273	112,075	117,455
BASH	Bottom Ash	5,465,959	5,007,317	4,499,562	4,459,911	4,383,231
FASH	Fly Ash	3,915,708	3,969,064	2,341,760	2,401,285	2,245,161
ADISP,ADCOST	Ash Disposal	3,500,922	3,563,185	3,526,693	3,591,472	3,585,090
PRECIP	Precipitator	1,280,286	1,371,916	1,491,246	1,511,736	764,260
BAGHOUSE	Bag House	924,944	925,918	26,188	27,351	28,665
STACK	Stack	404,272	378,757	638,332	567,999	591,177
CEMS,CEMSO,CEMSS	CEMS-All Assoc. Devices	4,355,441	4,473,012	4,806,941	4,939,850	4,919,001
INJECT, INJECTCHEM	Injection Systems	2,021,922	2,043,597	1,115,345	1,137,972	950,851
DUSTCOAL, DUSTCHEM, DUSTMA	Dust Suppression	3,326,189	3,398,456	3,483,952	3,556,827	3,298,444
COOLT	Cooling Towers	5,165,594	4,624,856	5,150,545	5,461,081	5,339,190
WASTEWT	Waste Water	813,794	821,803	1,066,581	1,095,901	1,110,279
PROCWT	Plant Process Waste Water Treatment	9,520,441	8,560,657	9,309,676	9,417,763	9,361,489
HYDROENV/OXYGEN	Environmental Projects (Hydro)	3,985,085	4,046,753	4,202,371	4,313,759	4,440,734
FGHAND	Flue Gas Handling	1,102,462	1,117,516	782,867	798,524	603,806
LIME, LIMEHAND	Limestone Handling	11,975,627	12,165,139	9,858,442	10,055,611	7,612,015
GHAND	Gypsum Handling	2,924,313	2,962,800	2,002,056	2,042,097	676,167
STATSERV	Station Service	72,430	73,380	74,348	75,335	25,000
OXAIR	Oxidation Air	177,454	155,805	70,182	71,585	47,870
SWATER	Water Treatment	505,396	508,385	155,432	158,540	34,749
FGDBUILD	Service Facilities-Scrubber Sys	2,093,084	2,120,411	1,546,070	1,574,237	1,466,423
FGDFIRE	Fire Protection-Scrubber Sys	84,101	85,783	87,499	89,299	72,216
SWSTWTR	Waste Water Treatment	1,905,723	3,272,207	1,950,635	1,954,926	1,977,735
SCRUBV, SRESPRAY	Scrubber Vessel	9,810,536	8,898,081	5,043,912	4,858,724	4,529,553
SCRCHEM	Ammonia Injection Grid	7,693,851	7,801,728	8,499,974	8,685,597	7,510,956
SCRMAINT	Selective Catalytic Reduction	5,944,211	5,817,015	5,250,515	5,544,982	5,580,259
		\$ 167,952,539	\$ 168,186,515	\$ 160,955,121	\$ 142,815,641	\$ 134,307,567
*Third party offsets are included in t Projections reflected in this documen	he numbers above which will be excluded in the Rate CNP, Part C filing nt are subject to change based on various factors, including but not limited	to future legislativ	e and regulatory a	actions.		

2025 O&M Budget and Forecast

Totals may not sum due to rounding.

ESTIMATED ENVIRONMENTAL CAPITAL PLACED IN SERVICE FOR 2025

GENERATION & POWER DELIVERY

Plant Barry CC			2025 Environn Genera	nental Projects I tion and Power	npany Placed In Service Delivery								
Barry CC	Project	Jan-25 Feb-25	Mar-25	Apr-25	May-25	un-25	Jul-25 A	ug-25	Sep-25	0ct-25	Nov-25	Dec-25	2025 Total
	Unit 6 and 7 Cooling Tower Structure			can telev	on form		, can the	2 0				300,002	300,002
Barry CC	Unit 6 Cooling Tower Gearbox											79,992	79,992
Barry CC	omez cooming rower orne minimator i vienta nepracement. Unit 7 Cooling Tower Gearbox											79.992	79.992
Barry CC	Unit 8 Cooling Tower Structure											966'66	966'66
Barry CC	Unit 8 SCR Catalyst Suihintal Rarry CC											999,995 1 909 971	999,995 1 909 971
Ramy Steam Plant	Common Effluent Limitation Guidelines											3 000 000	3 000.000
Barry Steam Plant	Common Entruent Entruetton Guardennes Common Ash Pond Non ARO			15.655.952								000,000,0	15.655.952
Barry Steam Plant	Common Mother Sump Pump Motor Replacement											49,992	49,992
Barry Steam Plant	Common Mother Sump Pump Motor VFD Replacement											37,992	37,992
Barry Steam Plant	Common Mother Sump Pump Replacement											75,000	75,000
Barry Steam Plant	Common Lab Analyzer Upgrades											64,993	64,993
Barry Steam Plant	Unit 5 Remote Submerged Chain Conveyor Pumps											199,991	199,991
Barry Steam Plant	Unit's Remote Submerged Chain Conveyor Motors											999,996	100.001
Barry Steam Plant Barry Steam Dlant	Unit 5 EGD Motore											166,661	166,661
Barry Steam Plant	Common Misc Pumps/Valves											966'66	966'66
	Subtotal Barry Steam Plant			15,655,952								3,927,948	19,583,901
Calhoun CT	Common Gate Replacement Storm Water Retention Pond Outflow											500,000	500,000
	Subtotal Calhoun CT											500,000	500,000
Central Alabama CC	Cooling Tower Structure											80,001	80,001
Central Alabama CC	Cooling Tower Fan Gearbox									208,227			208,227
Central Alabama CC	Stack Expansion Joint Subtotal Control Alahama CC									120,000		80.001	408.228
Cacton Staam Blant	July 6.Theneformer Dartifiare for Provinitator									177070		100'00	04.276
Gaston Steam Plant	Unit 5 Italisio finer Rectifiers for Frecipitator Hult 5 ECO Demons Deviantion									240.105	747596	740 005	746.766
Gaston Steam Plant	ome z teoreze rotecuou Ilnit 5 Cooling Tower Gearboxes / Blades									CCT 'C17	0000 1 2 2	254.170	254.170
Gaston Steam Plant	Unit 5 Fly Ash Handling Vacuum Pump Replacement											125.001	125.001
Gaston Steam Plant	Unit 5 Low Volume Waste Water Chemical Island Pumps											25,495	25,495
Gaston Steam Plant	Unit 5 Replace Fan Yard Sumps											107,161	107,161
Gaston Steam Plant	Unit 5 Replace SCR Flue Gas Fans											458,703	458,703
Gaston Steam Plant	Unit 5 Replace Limestone Batteries						127,968						127,968
	Subtotal Gaston Steam Plant						127,968			249,195	247,586	1,316,791	1,941,540
Greene County	Unit 1 & 2 CEMS			129,083								007 00	129,083
Greene County	Unit 1 & 2 Low Volume Waste Water			100.000								30,428	30,428
	Subtotal Greene County			129,083								30,428	159,511
Miller Steam Plant	Unit 1 & 2 Replace Bottom Ash Line		563,274										563,274
Miller Steam Plant	Unit 1 & 2 Install A Auto transfer switch 480v source											45,922	45,922
Miller Steam Plant Miller Steam Plant	Unit L & Z Install B Auto transfer SWICH 480V Source Thete 2 & A Install A Auto transfer suideb 4000 source											45,922 50.003	500.05
Miller Steam Plant	UILU 3 & 7 HISTAILA AUDU HAIRSTEL SWITCH 700Y SOULCE [[hilt 3 & 4 Install R Auth fransfer switch 480 v source											50.002	50.002
Miller Steam Plant	Unit 1-4 ECO HVAC Replacements											240,115	240,115
Miller Steam Plant	Unit 1-4 Replace Calcium Chloride Skid											192,093	192,093
Miller Steam Plant	Unit 1-4 Replace Waste Water Misc Valves											216,272	216,272
Miller Steam Plant	Unit 1-4 Replace FGD Absorber PH Meters											81,521	81,521
Miller Steam Plant	Unit 1-4 FGD Dewatering Main Filter Belt A											169,006	169,006
Miller Steam Plant Miller Steam Plant	Unit 1-4 FGD Dewatering Cloth Filter Belt A Init 1-4 Install FCD Makeun Water IIV Treatment											38,418 288139	38,418 288 139
Miller Steam Plant	Unit 1-4 Replace Racking Motors											48,023	48,023
Miller Steam Plant	Unit 1-4 Install Dewatering Auto transfer switch 480v source											48,023	48,023
Miller Steam Plant	Unit 1-4 Replace FGD Waste Water Misc Valves											67,233	67,233
Miller Steam Plant	Unit 1-4 Replace FGD Waste Water Optimization Flow Meters & Pipe											288,139	288,139
Miller Steam Plant	Unit 1 Replace Unit Seg Valves											68,789	68,789
Miller Steam Plant	Unit 1 Replace Fly Ash Seg/Dust Valves											36,687	36,687
Miller Steam Plant Miller Steam Plant	Unit 1 Replace Dry Bottom Ash Transport Line Trait 2 Boolsoon Unit Son Volume											183,436	70.766
Miller Steam Plant Miller Steam Plant	um z reprace um seg varves Init 2 Renjare Flv Ach Seg/Duct Valves											7.475	37475
Miller Steam Plant	Unit 2 Replace Dry Bottom Ash Transport Line											1,405,311	1,405,311
MillerSteam Plant	Unit 3 Replace SCR Catalyst				3,918,966								3,918,966
Miller Steam Plant	Unit 3 Replace SCR F-GAS I&C Equipment				155,431								155,431
Miller Steam Plant Miller Steam Plant	Unit 3 Replace Unit Seg Valves Unit 3 Real are Fly Ach Ser /Duct Valves				75,578							30 947	75,578 39.947
T otals may not sum	due to rounding											11/100	11/100

 Table 7 – Environmental Generation & Power Delivery Capital Placed In Service for 2025

				Ala	bama Power Co	mpany								
				2025 Environ Genera	mental Projects ation and Powe	s Placed In Servi r Delivery	ice							
Plant	Project	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	0ct-25	Nov-25	Dec-25	2025 Total
Miller Steam Plant	Unit 3 Replace Fly Ash Transfer Vessel Discharge Pipe					503,851								503,851
Miller Steam Plant	Unit 3 Replace Precip Outlet Expansion Joint					503,851								503,851
Miller Steam Plant	Unit 3 Dry Stack Expansion Joint					75,578								75,578
Miller Steam Plant	Unit 3 Replace FGD Absorber Duct Work Expansion Joints					50,385								50,385
Miller Steam Plant	Unit 3 Replace SCR Ammonia Vaporization Skid					302,311								302,311
Miller Steam Plant	Unit 3 Replace SCR F-GAS Shelter I&C Equipment					503,851								503,851
Miller Steam Plant	Unit 4 Replace SCR Catalyst					3,922,085								3,922,085
Miller Steam Plant	Unit 4 Replace Unit Seg Valves					75,508								75,508
Miller Steam Plant	Unit 4 Replace Fly Ash Seg/Dust Valves												39,947	39,947
Miller Steam Plant	Unit 4 Replace Fly Ash Transfer Vessel Discharge Pipe					503,373								503,373
Miller Steam Plant	Unit 4 Replace Precip Outlet Exp Joint					503,373								503,373
Miller Steam Plant	Unit 4 Replace Dry Stack Expansion Joint					75,508								75,508
Miller Steam Plant	Unit 4 Replace FGD Absorber Duct Work Exp Joints					27,963	5,519	5,519	5,519	5,519				50,039
Miller Steam Plant	Unit 4 Replace SCR Ammonia Vaporization Skid					302,024								302,024
Miller Steam Plant	Unit 4 Replace SCR FGAS Shelter I&C Equip					551,911								551,911
	Subtotal Miller Steam Plant			563,274		12,051,547	5,519	5,519	5,519	5,519			3,750,685	16,387,582
Theodore CC	Cooling Tower Structure												300,002	300,002
	Subtotal Theodore CC												300,002	300,002
Washington County CC	Service Water Tower												300,002	300,002
Washington County CC	Cooling Tower Structure												300,002	300,002
Washington County CC	Cooling Tower Gearboxes												79,992	79,992
	Subtotal Washington County CC												679,996	679,996
	Total Generation Placed In Service	•		563,274	15,785,036	12,051,547	5,519	133,487	5,519	5,519	577,422	247,586	12,495,822	41,870,731
	Total Generation Retirements	•		(56,327)	(1,578,504)	(1,826,848)	(552)	(13,349)	(552)	(552)	(32,823)		(1,171,783)	(4,681,289)
	Generation Cumulative Placed In Service 2025 Budget Process	4,960,264,719	4,960,264,719	4,960,771,665	4,974,978,197 4	4,985,202,896 4	,985,207,863 4,	985,328,002 4,	985,332,969 4,	985,337,936 4,	985,882,535 4,	986,130,121 4,	,997,454,161	
	Power Delivery Cumulative Placed In Service 2025 Budget Process	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	37,409,765	
	Total Cumulative Placed In Service 2025 Budget Process	4,997,674,484	4,997,674,484	4,998,181,430	5,012,387,962 5	5,022,612,661 5	6,022,617,629 5,	022,737,767 5,	022,742,734 5,	022,747,701 5,	023,292,300 5,	,023,539,886 5,	,034,863,926	
	Third Party Offset Placed In Service 2025 Budget Process	1,904,190	1,904,190	1,904,190	1,904,190	1,904,190	1,904,190	1,904,190	1,904,190	1,904,190	1,919,846	1,919,846	1,976,819	
Total Cumulative P *Total <u>Excludes</u> adjus	laced In Service, Excluding Third Party Offset, 2025 Budget Process ⁴ - stments related to third party arrangement.	4,995,770,294	4,995,770,294	4,996,277,240	5,010,483,772	5,020,708,472 5	;020,713,439 5,	020,833,577 5,	020,838,544 5,	020,843,511 5	,021,372,454 5,	,021,620,040 5,	032,887,106	
Totals may not sum d	ue to rounding													

ESTIMATED ENVIRONMENTAL O&M EXPENSE FOR 2025

Table 8 – Environmental O&M Expense for 2025

2025	O&M	Budget	and	Forecast

Work Type	Environmental Activities	2025	
E316A	316A Regulation	312,007	
E316B	316B Regulation	920,570	
EDISPD, EDISPS	Enviro Disposal Activity-Enviro Affairs Compliance	521,468	
EHYDR1	Coosa/Warrior/Tallapoosa Shoreline Studies, ESA studies & cons	839,410	
EHYDR6	Enviro Trout Stocking - Smith Tailrace	37,164	
EHYDR11	Enviro Fish Culture Facility	647,273	
EHYDR12	Enviro Fisheries Habitat Enhancement	486,229	
EHYDR9	Enviro Wildlife Habitat Enhancement & Restoration	1,166,536	
EMERC	Environmental Mercury Rata Testing	1,612,329	
COMPENO,COMPENS,COMPENV	Compliance-Environmental	85,229,675	
ASHSALE	Ash Sales	(11,411,210)	
GYPSALE	Gypsum Sales	(1,503,987)	
ASLUICE	Ash Sluice	125,333	
BASH	Bottom Ash	5,465,959	
FASH	Fly Ash	3,915,708	
ADISP,ADCOST	Ash Disposal	3,500,922	
PRECIP	Precipitator	1,280,286	
BAGHOUSE	Bag House	924,944	
STACK	Stack	404,272	
CEMS,CEMSO,CEMSS	CEMS-All Assoc. Devices	4,355,441	
INJECT, INJECTCHEM	Injection Systems	2,021,922	
DUSTCOAL, DUSTCHEM, DUSTMAINT	Dust Suppression	3,326,189	
COOLT	Cooling Towers	5,165,594	
WASTEWT	Waste Water	813,794	
PROCWT	Plant Process Waste Water Treatment	9,520,441	
HYDROENV/OXYGEN	Environmental Projects (Hydro)	3,985,085	
FGHAND	Flue Gas Handling	1,102,462	
LIME, LIMEHAND	Limestone Handling	11,975,627	
GHAND	Gypsum Handling	2,924,313	
STATSERV	Station Service	72,430	
OXAIR	Oxidation Air	177,454	
SWATER	Water Treatment	505,396	
FGDBUILD	Service Facilities-Scrubber Sys	2,093,084	
FGDFIRE	Fire Protection-Scrubber Sys	84,101	
SWSTWTR	Waste Water Treatment	1,905,723	
SCRUBV, SRESPRAY	Scrubber Vessel	9,810,536	
SCRCHEM	Ammonia Injection Grid	7,693,851	
SCRMAINT	Selective Catalytic Reduction	5,944,211	
		\$ 167,952,539	
*Third party offsets are included in the numbers above which will be excluded in the Rate CNP, Part C filing			
Totals may not sum due to rounding.			

APPENDIX A

ACRONYMS AND ABBREVIATIONS

ACE	Affordable Clean Energy Rule
ACI	Activated Carbon Injection
ADEM	Alabama Department of Environmental Management
ADROP	Alabama Drought Response Operating Proposal
AIR	Additional Information Request
APC	Alabama Power Company
APEA	Applicant Prepared Environmental Assessment
ARP	Acid Rain Program
BA	Biological Assessment
BATW	Bottom Ash Transport Water
BACT	Best Available Control Technology
BART	Best Available Retrofit Technology
BAT	Best Available Technology
ВО	Biological Opinion
BSER	Best System of Emission Reduction
BTU	British Thermal Unit
CAA	Clean Air Act
CAAA	Clean Air Act Amendments of 1990
CASAC	Clean Air Scientific Advisory Committee
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring

CAMR	Clean Air Mercury Rule
CAVR	Clean Air Visibility Rule
CCS	Carbon Capture and Sequestration
CCR or CCRs	Coal Combustion Residuals
CEMS	Continuous Emissions Monitoring System
CMMS	Continuous Mercury Monitoring System
CFR	Code of Federal Regulations
CPP	Clean Power Plan
СО	Carbon Monoxide
CO ₂	Carbon Dioxide
COHPAC	Compact Hybrid Particulate Collector
CSAPR	Cross-State Air Pollution Rule
CUR	Capacity Utilization Rating
CWA	Clean Water Act
DOJ	Department of Justice
DRR	Data Requirement Rule
DSEIS	Draft Supplemental Environmental Impact Statement
EGU	Electric Generating Unit
EIS	Environmental Impact Statement
ELG	Effluent Limitation Guidelines
EPA	Environmental Protection Agency
EPRI	Electric Power Research Institute
EPCRA	Emergency Planning and Community Right-to-Know Act
ESA	Endangered Species Act
ESP	Electrostatic Precipitator

FERC	Federal Energy Regulatory Commission
FGD	Flue Gas Desulfurization
FIP	Federal Implementation Plan
FPA	Federal Power Act
FR	Federal Register
FWS	Fish and Wildlife Service – Department of Interior
GHG	Greenhouse Gases
НАР	Hazardous Air Pollutant
НАТ	Harris Action Team
Hg	Mercury
LAER	Lowest Achievable Emission Rate
LNB	Low-NO _x Burner
MACT	Maximum Achievable Control Technology
MATS	Mercury and Air Toxics Standards
NAAQS	National Ambient Air Quality Standards
NBP	NO _x Budget Trading Program
NEPA	National Environmental Policy Act
NH3	Ammonia
NMFS	National Marine Fisheries Service
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NOI	Notice of Intent
NOPP	Notice of Planned Participation
NPDES	National Pollution Discharge Elimination System

NSPS	New Source Performance Standards
NWP12	U.S. Army Corps of Engineers Nationwide Permit 12
OFA	Overfire Air
OTAG	Ozone Transport Assessment Group
O&M	Operation and Maintenance
PAD	Preliminary Application Document
PCAMS	Precipitator Control and Management System
PLP	Preliminary License Proposal
PM	Particulate Matter
PM2.5	Particulate Matter less than 2.5 micrometers in size
PM10	Particulate Matter less than 10 micrometers in size
РМЕ	Protection Mitigation and Enhancement
PPB	Parts per billion
PPM	Parts per million
PPT	Parts per trillion
PRB	Powder River Basin
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
RCRA	Resource Conservation and Recovery Act
RES	Renewable Electricity Standard
RHS	Rough Hornsnail
RTR	Residual Risk and Technology Review
SAMC	Sulfuric Acid Mist Control
SCR	Selective Catalytic Reduction
SIP	State Implementation Plan

SNCR	Selective Noncatalytic Reduction
SO ₂	Sulfur Dioxide
SO ₃	Sulfur Trioxide
T-Fired	Tangential or tangentially fired
T&E	Threatened and Endangered
TR	Transformer/Rectifier
TRI	Toxics Release Inventory
USWAG	Utility Solid Waste Activities Group
UWAG	Utility Water Act Group
UVB	Ultraviolet-B
VOC	Volatile Organic Compounds
WOTUS	Waters of the United States
ZLD	Zero Liquid Discharge

FORWARD-LOOKING STATEMENT CAUTIONARY NOTE

Certain information contained in this report is forward-looking information based on current expectations and plans that involve risks and uncertainties. Forward-looking information includes, among other things, statements concerning current and proposed environmental regulations and related compliance plans and estimated expenditures. Alabama Power cautions that there are various factors that could cause actual results to differ materially from the forward-looking information that has been provided. The reader is cautioned not to put undue reliance on this forward-looking information, which is not a guarantee of future performance and is subject to a number of uncertainties and other factors, many of which are outside the control of Alabama Power; accordingly, there can be no assurance that such suggested results will be realized. The following factors, in addition to those discussed in Alabama Power's Annual Report on Form 10-K for the fiscal year ended December 31, 2023 and subsequent securities filings, could cause actual results to differ materially from management expectations as suggested by such forward-looking information: the impact of recent and future federal and state regulatory changes, including environmental and other laws and regulations to which Alabama Power is subject, as well as changes in application of existing laws and regulations; the extent and timing of costs and legal requirements related to coal combustion residuals; current and future litigation or regulatory investigations, proceedings, or inquiries; available sources and costs of fuels; effects of inflation; the ability to control costs and avoid cost and schedule overruns during the development, construction, and operation of facilities or other projects; the ability to construct facilities in accordance with the requirements of permits and licenses to satisfy any environmental performance standards and the requirements of tax credits and other incentives, and to integrate facilities into the Southern Company system upon completion of construction; advances in technology; state and federal rate regulations and the impact of pending and future rate filings; catastrophic events such as fires, earthquakes, explosions, floods, tornadoes, hurricanes and other storms, droughts, pandemic health events, political unrest, wars, or other similar occurrences; and the direct or indirect effects on Alabama Power's business resulting from incidents affecting the U.S. electric grid or operation of generating resources. Alabama Power expressly disclaims any obligation to update any forward-looking information contained in this report, except in accordance with the rules and requirements of, and rate schedules on file with, the Alabama Public Service Commission.