

Air Protection Branch

4244 International Parkway, Suite 120
Atlanta, Georgia 30354
404-363-7000

May 1, 2024

Ms. Jeaneanne Gettle
Acting Regional Administrator
U.S. EPA, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-3104

RE: Georgia Power-Plant Bowen 2024 Annual Report for EPA's Data Requirements Rule for the 2010 1-Hour SO₂ NAAQS

Dear Ms. Gettle:

This report is being submitted to comply with the ongoing data requirements specified in 40 CFR 51.1205(b), for areas where modeling serves as the basis for designating that area as attainment for the 2010 1-Hour SO₂ NAAQS. The Georgia Environmental Protection Division (EPD) has determined that no additional modeling is needed to characterize air quality in the area surrounding Georgia Power - Plant Bowen (Plant Bowen).

On January 9, 2018, the U.S. Environmental Protection Agency (EPA) designated Bartow County, GA as Attainment/Unclassifiable with an effective date of April 9, 2018 (83 FR 1098). This designation was based on 2014-2016 modeling submitted to EPA by Georgia EPD, which demonstrated that SO₂ emissions from Plant Bowen do not cause or contribute to any exceedances of the 1-hour SO₂ National Ambient Air Quality Standard (NAAQS). The highest modeled SO₂ design value in the modeling domain was 57.6 ppb.

According to the Data Requirements Rule for the 2010 1-hour SO₂ primary NAAQS (80 FR 51052):

“For any area where modeling of actual SO₂ emissions serve as the basis for designating such area as attainment for the 2010 SO₂ NAAQS, the air agency shall submit an annual report to the EPA Regional Administrator by July 1 of each year...that documents the annual SO₂ emissions of each applicable source in each such area... The first report for each such area is due by July 1 of the calendar year after the effective date of the area's initial designation.”

Table 1 contains the modeled Plant Bowen SO₂ emissions (2014-2016) along with Plant Bowen SO₂ emissions (2014-2023) from EPA's Clean Air Markets Division (CAMD).

Table 1. SO₂ emissions from Plant Bowen for 2014-2023.

Calendar Year	CAMD SO ₂ Emissions (Tons/Year)	Modeled SO ₂ Emissions (Tons/Year)
2014	7,204	7,207
2015	8,104	8,106
2016	10,453	10,456
2017	9,451	
2018	10,169	
2019	9,231	
2020	6,098	
2021	6,669	
2022	5,508	
2023	7,143	

The increase of facility-wide SO₂ emissions (1,634 TPY) at Plant Bowen in 2023 compared to the facility-wide SO₂ emissions in 2022 was primarily due to an increase in demand that resulted in a heat input increase from 90,255,475 MMBtu in 2022 to 108,907,642 MMBtu in 2023.

The 3-year average of Plant Bowen SO₂ emissions modeled for 2014-2016 was 8,590 TPY. The 3-year average of SO₂ emissions from Plant Bowen for 2021-2023 was 6,440 TPY which is 25.0 percent lower than the modeled emissions for 2014-2016.

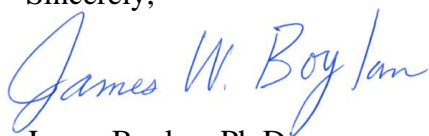
Therefore, EPD has determined that the previous modeling is conservative, no additional modeling is needed to characterize air quality in the area and the area continues to meet the 2010 SO₂ NAAQS.

As required by 40 CFR 51.1205(b), a copy of this letter is available for public inspection at 4244 International Parkway, Suite 120, Atlanta, GA 30354. In addition, the public can inspect an electronic version of this letter at:

<https://epd.georgia.gov/air-protection-branch/air-branch-programs/planning-and-support-program/national-ambient-air-quality>

Should you or your staff have any questions or comments, please contact Elisabeth Munsey at Elisabeth.Munsey@dnr.ga.gov or 470-251-4736.

Sincerely,



James Boylan, Ph.D.
Chief, Air Protection Branch
Georgia Environmental Protection Division