State of Mississippi
TATE REEVES
Governor
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHRIS WELLS, EXECUTIVE DIRECTOR

Ongoing Data Requirements Rule Verification

2010 1-Hour Sulfur Dioxide (SO_2) Primary

National Ambient Air Quality Standard (NAAQS)

30-day Public Review

The **2026** Ongoing Data Requirements Rule (DRR) annual report, **covering Calendar Year (CY) 2025**, for the 1-hr SO_2 NAAQS is available for public review from May 11, 2026, through June 12, 2026. Any comments on this report should be submitted by emailing Rodney Cuevas at RCuevas@mdeq.ms.gov no later than June 12, 2026.

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Mississippi Department of Environmental Quality
May 11, 2026

R.D. Morrow Senior Generating Plant – Lamar County, MS

EPA approved MDEQ's 2023 request to terminate the DRR emissions reporting requirement for the Cooperative Energy R.D. Morrow generating station on January 18, 2024. Therefore, MDEQ is no longer required to submit SO_2 annual emissions data for the Lamar County facility. Lamar County, MS remains classified as unclassifiable/attainment.

Daniel Electric Generating Plant – Jackson County, MS

On June 2, 2010, the U.S. Environmental Protection Agency (EPA) revised the primary NAAQS for SO_2 by establishing a 1-hour standard at a level of 75 parts per billion (ppb), which is equivalent to 196.34 µg/m³. In 2016, Mississippi Power Company conducted sulfur dioxide (SO_2) designation modeling to determine whether the area around the Daniel Electric Generating Plant should be designated as attainment or non-attainment. Mississippi Power conducted the SO_2 designation modeling using the EPA's preferred air dispersion model for near-field regulatory applications, the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD). Mississippi Power used the following dispersion modeling methodology to determine the designation status of the area around the Daniel Electric Generating Plant:

- Used the most recent three years of actual emissions (2012, 2013, and 2014);
- Used three years of meteorological data (2012, 2013, and 2014);
- Used actual stack heights rather than limiting model stack heights to GEP height; and
- Included nearby sources from the regional inventories provided by the MDEQ.

Mississippi Power conducted the dispersion modeling in accordance with the modeling protocol approved by the EPA. Table 1 shows the dispersion modeling results, which indicated the area around the Daniel Electric Generating Plant should be classified as "attainment" and that Mississippi Power was not causing or contributing to any violations of the 1-hour SO_2 NAAQS.

Table 1: SO_2 Designation Modeling Results – Daniel Electric Generating Plant

Pollutant	Averaging Period	Model Design Concentration (µg/m³)	Monitored Background Concentration (µg/m³)	Total Concentration (µg/m³)	NAAQS (µg/m³)	Below NAAQS (Y/N)?	Percent of NAAQS (%)
SO_2	1-hour	105.83	42.14	147.97	196.5	Y	75%

In December of 2017, EPA notified the Mississippi Department of Environmental Quality (MDEQ) that, based on the modeling submitted, Jackson County, MS is designated as unclassifiable/attainment for the 2010 SO_2 standard. Under 40 CFR 51.1205(b), areas designated as attaining the standard based on modeling of actual emissions are required to submit an annual report including more recent emissions data and evaluating whether further modeling is warranted. Table 2 includes the facility emissions from EPA's Clean

Air Markets Program Data (CAMPD) database.

Table 2: Daniel Electric Generating Plant SO_2 Emissions

Facility Name	Year	Unit ID	Operating Time (hr.)	Heat Input (MMBtu)	SO_2 (tons)	Total SO_2 (tons)
Daniel Electric Generating Plant	2014	1	6,317.2	21,667,533	7,737.875	14,898.475
		2	5,846.0	19,752,977	7,145.634	
		3A	7,327.0	11,927,586	3.578	
		3B	7,340.5	11,945,257	3.584	
		4A	8,261.0	13,173,310	3.952	
		4B	8,099.0	12,840,510	3.852	
	2015	1	3,976.5	13,445,218	3,706.241	8,412.162
		2	4,910.0	15,446,598	4,689.168	
		3A	8,297.2	14,095,612	4.229	
		3B	8,236.0	14,126,696	4.238	
		4A	8,366.0	14,113,507	4.234	
		4B	8,224.0	13,506,573	4.052	
	2016	1	5,474.0	12,620,563	75.615	156.011
		2	5,475.0	13,640,775	65.041	
		3A	7,874.0	13,325,951	3.998	
		3B	8,344.2	14,235,468	4.271	
		4A	6,777.0	11,424,450	3.428	
		4B	7,337.2	12,193,976	3.658	
	2017	1	7,039.8	16,271,301	106.579	204.515
		2	5,292.5	12,695,088	82.481	
		3A	7,175.5	12,413,196	3.724	
		3B	7,091.5	12,095,756	3.629	
		4A	8,120.0	13,735,333	4.121	
		4B	8,280.8	13,269,125	3.981	
	2018	1	6,063.2	14,195,649	129.043	253.238
		2	6,331.5	15,809,312	107.390	
		3A	8,193.3	14,216,628	4.265	
		3B	8,305.6	14,190,498	4.257	
		4A	8,274.5	14,214,429	4.265	
		4B	8,224.4	13,393,013	4.018	
	2019	1	4,739.0	11,925,228	104.235	223.786
		2	5,634.2	14,407,654	102.852	
		3A	8,174.4	14,495,875	4.349	
		3B	8,227.7	14,520,961	4.356	
		4A	8,240.6	14,365,153	4.310	
		4B	7,404.3	12,278,870	3.684	
	2020	1	4,261.9	11,281,679	69.364	181.140
		2	6,373.8	18,042,376	94.141	
		3A	8,455.5	15,134,208	4.540	
		3B	8,393.5	14,927,474	4.478	
		4A	7,791.9	14,327,112	4.298	
		4B	7,951.4	14,394,986	4.319	

Facility Name	Year	Unit ID	Operating Time (hr.)	Heat Input (MMBtu)	SO_2 (tons)	Total SO_2 (tons)
Daniel Electric Generating Plant	2021	1	6,675.0	22,725,173	92.826	169.317
		2	3,771.5	10,792,796	59.142	
		3A	8,055.9	14,304,857	4.292	
		3B	8,056.2	13,938,100	4.182	
		4A	8,353.2	14,842,009	4.453	
		4B	8,338.1	14,740,504	4.422	
	2022	1	4,511.7	14,195,995	132.296	302.679
		2	5,501.2	18,919,624	153.695	
		3A	7,635.4	13,791,556	4.138	
		3B	7,614.2	13,340,862	4.002	
		4A	7,625.9	13,961,512	4.189	
		4B	8,268.9	14,528,325	4.359	
	2023	1	770.3	2,128,642	25.559	188.320
		2	5,325.6	17,256,350	144.667	
		3A	8,247.2	15,492,457	4.648	
		3B	8,271.6	15,431,480	4.630	
		4A	8,095.5	15,047,610	4.514	
		4B	8,053.2	14,338,004	4.302	
	2024	1	179.0	756,450	6.036	110.617
		2	6,274.9	18,396,708	88.081	
		3A	8,281.0	15,408,068	4.623	
		3B	8,357.1	15,455,899	4.637	
		4A	6,660.4	12,208,936	3.663	
		4B	6,712.5	11,924,060	3.577	
	2025	1	115.4	308,480	1.168	99.491
		2	6,399.0	21,270,598	81.363	
		3A	7,039.9	13,242,851	3.973	
		3B	7,039.9	13,254,728	3.977	
		4A	8,163.5	15,146,477	4.544	
		4B	8,106.5	14,886,322	4.466	

Source: EPA's Clean Air Markets Program Data (CAMPD) database

As shown in Table 2, total SO_2 emissions for the Daniel Electric Generating Plant have decreased significantly since the years used in the modeling submitted in 2016. Therefore, the previous modeling used for the 2010 SO_2 Round 3 designations remain valid and no additional modeling is needed. MDEQ recommends that Jackson County, MS remain classified as unclassifiable/attainment.

Red Hills Generation Facility – Choctaw County, MS

On June 2, 2010, the U.S. Environmental Protection Agency (EPA) revised the primary NAAQS for SO_2 by establishing a 1-hour standard at a level of 75 parts per billion (ppb), which is equivalent to 196.34 µg/m³. In 2016, Choctaw Generation, L.L.P. conducted sulfur dioxide (SO_2) designation modeling to determine whether the area around the Red Hills Generation Facility should be designated as attainment or non-attainment. Choctaw Generation, L.L.P. conducted the SO_2 designation modeling using the EPA's preferred air dispersion model for near-field regulatory applications, the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD). Choctaw Generation, L.L.P.

used the following dispersion modeling methodology to determine the designation status of the area around the Red Hills Generation Facility:

- Used the most recent three years of actual emissions (2012, 2013, and 2014);
- Used three years of meteorological data (2012, 2013, and 2014);
- Used actual stack heights rather than limiting model stack heights to GEP height; and
- Included nearby sources from the regional inventories provided by the MDEQ.

Choctaw Generation, L.L.P. conducted the dispersion modeling in accordance with the modeling protocol approved by the EPA. Table 3 shows the dispersion modeling results, which indicated the area around the Red Hills Generation Facility should be classified as "attainment" and that Choctaw Generation, L.L.P. was not causing or contributing to any violations of the 1-hour SO_2 NAAQS.

Table 3: SO_2 Designation Modeling Results – Red Hills Generation Facility

Pollutant	Averaging Period	Model Design Concentration ($\mu g/m^3$)	Monitored Background Concentration ($\mu g/m^3$)	Total Concentration ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Below NAAQS (Y/N)?	Percent of NAAQS (%)
SO2	1-hour	45.43	39.3	84.73	196.5	Y	43%

In December of 2017, EPA notified the Mississippi Department of Environmental Quality (MDEQ) that, based on the modeling submitted, Choctaw County, MS is designated as unclassifiable/attainment for the 2010 SO_2 standard. Under 40 CFR 51.1205(b), areas designated as attaining the standard based on modeling of actual emissions are required to submit an annual report including more recent emissions data and evaluating whether further modeling is warranted. Table 4 includes the facility emissions from EPA's Clean Air Markets Program Data (CAMPD) database.

Table 4: Red Hills Generation Facility SO_2 Emissions

Facility Name	Year	Unit ID	Operating Time (hr)	Heat Input (MMBtu)	SO2 (tons)	Total SO2 (tons)
Red Hills Generation Facility	2014	AA001	6,544.5	14,693,128	1,348.402	2,881.602
		AA002	6,401.2	16,453,547	1,533.200	
	2015	AA001	7,300.2	17,238,183	1,507.481	3,027.165
		AA002	7,710.5	19,634,313	1,519.684	
	2016	AA001	7,471.8	16,938,342	1,463.540	2,799.379
		AA002	6,361.0	16,003,855	1,335.839	
	2017	AA001	6,540.8	13,664,385	1,089.826	2,244.953
		AA002	6,061.2	13,939,836	1,155.127	
	2018	AA001	7,601.2	20,285,442	1,353.884	2,811.967
		AA002	7,302.2	17,863,565	1,458.083	
	2019	AA001	6,350.5	14,375,544	1,450.663	2,636.885
		AA002	6,461.0	15,472,028	1,186.222	
	2020	AA001	6,224.8	10,690,045	1,047.540	2,344.133
		AA002	6,409.8	15,368,749	1,296.593	
	2021	AA001	7,196.8	15,539,942	1,477.663	2,843.284
		AA002	7,286.2	16,887,101	1,365.621	
	2022	AA001	7,645.0	16,769,689	1,638.765	2,883.065
		AA002	7,555.0	17,501,505	1,244.300	
	2023	AA001	6,849.0	15,619,704	1,313.745	2,503.957
		AA002	6,859.5	16,121,531	1,190.212	

Facility Name	Year	Unit ID	Operating Time (hr)	Heat Input (MMBtu)	SO2 (tons)	Total SO2 (tons)
Red Hills Generation Facility	2024	AA001	7,157.5	17,936,938	1,366.401	1,684.124
		AA002	1,810.8	3,859,066	317.723	
	2025	AA001	6,947.5	17,645,950	1,501.643	2,722.242
		AA002	6,016.2	14,300,395	1,220.599	

Source: EPA's Clean Air Markets Program Data (CAMPD) database

As shown in Table 4, total SO_2 emissions for the Red Hills Generation Facility have been lower than the years used in the modeling submitted in 2016. Therefore, the previous modeling used for the 2010 SO_2 Round 3 designations remain valid and no additional modeling is needed. MDEQ recommends that Choctaw County, MS remain classified as unclassifiable/attainment.