§ 52.2501 Best available retrofit technology (BART) requirement for the Tesoro Refining and Marketing Company oil refinery—Better than BART Alternative.

(a) Applicability. This section applies to the Tesoro Refining and Marketing Company oil refinery (Tesoro) located in Anacortes, Washington and to its successors and/or assignees.


(1) Compliance Date. Starting no later November 10, 2014, Units F–101, F–102, F–201, F–301, F–652, F–751, and F–752 shall only fire refinery gas meeting the criteria in paragraph (b)(2) of this section or pipeline quality natural gas.

(2) Refinery fuel gas requirements. In order to limit SO₂ emissions, refinery fuel gas used in the units from blend drum V–213 must not contain greater than 0.10 percent by volume hydrogen sulfide (H₂S), 365-day rolling average, measured according to paragraph (d) of this section.

(3) Compliance demonstration. Compliance with the H₂S emission limitation.
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must be demonstrated using a continuous emissions monitoring system as required in paragraph (d) of this section.

(d) Emission monitoring. (1) A continuous emissions monitoring system (CEMS) for H2S concentration must be installed, calibrated, maintained and operated measuring the outlet stream of the fuel gas blend drum subsequent to all unmetered incoming sources of sulfur compounds to the system and prior to any fuel gas combustion device. The monitor must be certified in accordance with 40 CFR part 60 appendix B and operated in accordance with 40 CFR part 60 appendix F.

(2) Tesoro must record the calendar day average H2S concentration of the refinery fuel gas as measured by the CEMS required in paragraph (d)(1) of this section. The daily averages must be used to calculate the 365-day rolling average.

(e) Recordkeeping. Records of the daily average H2S concentration and 365-day rolling averages must be retained at the facility for at least five years and be made available to the EPA Region 10 upon request.

(f) Reporting. (1) Calendar day and 365-day rolling average refinery fuel gas H2S concentrations must be reported to the EPA Region 10 at the same time that the semi-annual monitoring report required by the Part 70 operating permit for the Tesoro oil refinery are submitted to the Title V permitting authority.

(2) All documents and reports must be sent to the EPA Region 10 electronically, in a format approved by the EPA Region 10, to the following email address: R10-AirPermitReports@epa.gov.

Effective Date Note: At 79 FR 33454, June 11, 2014, § 52.2501 was added, effective July 11, 2014.

§ 52.2502 Best available retrofit technology requirements for the Alcoa Inc.—Wenatchee Works primary aluminum smelter.

(a) Applicability. This section applies to the Alcoa Inc.—Wenatchee Works primary aluminum smelter (Wenatchee Works) located near Wenatchee, Washington and to its successors and/or assignees.

(b) Best available retrofit technology (BART) emission limitations for Potline 5—(1) Sulfur dioxide (SO2) emission limit. Starting November 10, 2014, SO2 emissions from Potline 5 must not exceed 46 pounds per ton of aluminum produced during any calendar month as calculated in paragraph (b)(1)(i) of this section.

(i) Compliance demonstration. Alcoa must determine SO2 emissions, on a calendar month basis using the following formulas:

\[
\text{SO}_2 \text{ emissions in pounds} = (\text{carbon ratio}) \times (\text{tons of aluminum produced during the calendar month}) \times (\% \text{ sulfur in baked anodes}/100) \times (\% \text{ sulfur converted to } \text{SO}_2/100) \times (2 \text{ pounds of } \text{SO}_2 \text{ per pound of sulfur})
\]

SO2 emissions in pounds per ton of aluminum produced = (SO2 emissions in pounds during the calendar month)/(tons of aluminum produced during the calendar month)

(A) The carbon ratio is the calendar month average of tons of baked anodes consumed per ton of aluminum produced as determined using the baked anode consumption and aluminum production records required in paragraph (h)(2) of this section.

(B) The % sulfur in baked anodes is the calendar month average sulfur content as determined in paragraph (b)(1)(ii) of this section.

(C) The % sulfur converted to SO2 is 90%.

(ii) Emission monitoring. The % sulfur of baked anodes must be determined using ASTM Method D6376 or an alternative method approved by the EPA Region 10.

(A) At a minimum, Alcoa must collect no less than four baked anode core samples during each calendar week.

(B) Calendar month average sulfur content must be determined by averaging the sulfur content of all samples collected during the calendar month.

(2) Particulate matter (PM) emission limit. Starting January 7, 2015, PM emissions from the Potline 5 Gas Treatment Center stack must not exceed 0.005 grains per dry standard cubic foot of exhaust gas.

(3) Nitrogen oxides (NOx) emission limit. Starting January 7, 2015, NOx emissions from Potline 5 must not exceed,