

South Coast Locomotive Fleet Average Emission Program

ANNUAL COMPLIANCE REPORT
FOR
CALENDAR YEAR
2020

Submitted by a Participating Railroad
to the
California Air Resources Board
in Accordance with the
Memorandum of Mutual Understanding and Agreements
Dated
2-Jul-98

Version: March 04, 2021 (rev01)
Participating Railroad: BNSF
Date Submitted: March, 2021

Form F-A-2

Calculation of Final FA in accordance with Subsection III.D of Memorandum

A. Enter the value shown on Line D of Part III of Form F-A-1	4.7
B. Enter the total of all adjustments made to FA in accordance with paragraph III.D.1 of the Memorandum. If any adjustment is made to FA, complete Part II of Form F-A-3.	0.0
C. Calculate adjusted FA (Line A - Line B)	4.7
D. If Line C is less than or equal to Fleet Average Target, or if this report is for a year prior to 2010, enter zero. Otherwise, enter any correction made to account for atmospheric conditions in accordance with paragraph III.D.2 of the Memorandum. Do not enter more than the difference between Line C and Fleet Average Target. If a correction is made to account for atmospheric conditions, complete Part III of Form F-A-3. 3	0.0
E. Calculate Adjusted/Corrected FA (Line C - Line D); Round to nearest 0.1 g/bhphr (see Appendix C of Memorandum)	4.7
F. FAC from ULELs in g/bhphr (the smaller of Line B or Line E; round to the nearest 0.1 g/bhphr)	0.0
G. Calculate Final FA in g/bhphr (Line E - Line F)	4.7

	8.0388
Fleet Average Target ((1-y) x 15.4 g/bhp-hr)	5.5

Form F-A-3

Form F-A-3 is related to adjustment of the locomotive CL, FA and correction to FA - Not Applicable

Form F-A-4

Factors to Convert between Gallons of Fuel and MWhr

Locomotive Type:	conversions were made for each model including conversion factors utilized.
A. Indicate whether original data for the locomotive were collected in gallons of fuel or MWhr.	Both
B. What conversion factor was used?	See conversion factors for locomotives in Whitepaper Appendix A.
C. Has the methodology used to develop the conversion factor been accepted previously by California Air Resources Board (ARB) in accordance with the terms of Appendix D of the Memorandum?	
D. If Line C Is Yes, enter date.	
E. Show below, in detail, how the conversion factor was calculated. Attach all supporting data and evidence. This information will be used by ARB to determine whether to accept the conversion factor. If Line C is No, it will also be used to determine whether to accept the methodology. See paragraphs IV.C.4, IV.C.5 and Appendix B of the Memorandum.	See Whitepaper

Form F-A-5

Estimation of Missing Locomotives - Not applicable

Form F-A-6

Summary of FAC Transactions (in g/bhphr)

I.	(1)	(2)	(3)
	Created Pre-2010	Created Post- 2009	Total
A. Ending FAC balance -- last annual report	2.2	3.11	5.31
B. FAC acquired for Other Participating Railroad since last annual report, if any	0.0	0.00	0.00
C. FAC created from ULELs during the year, if any (Line F of Form F-D-2)	0.0	0.90	0.90
D. FAC transferred to Other Participating Railroad or others since last annual report, if any	0.0	0.00	0.00
E. Total FAC available for use in this annual report -- subject to restrictions on pre-2010 FAC noted in subparagraph III.D.3.a of Memorandum (Line A + Line B + Line C - Line D)	2.2	4.01	6.21
F. FAC used in this annual report, if any (included in total emissions reductions shown on Line F of Form F-A-2)	0.0	0.13	0.13
G. FAC created during the year other than Line C, if any (Fleet Average Target # - Final FA shown on Line G of Form F-A-2, provided Fleet Average Target # exceeds Final FA)	0.76	0.00	0.76
H. Ending FAC balance -- this annual report (Line E-LineF+LineG)	2.96	3.11	6.07

II. Emissions Reductions Other than FAC

List the amount of emissions reductions other than FAC, if any, shown on Line F of Form F-A-2 (in g/bhphr). In accordance with subparagraph III.D.3.a of the Memorandum, this amount cannot exceed 0.3 g/bhphr. In addition, the sum of (1) the amount shown here, and (2) the pre-2010 FAC included on Line F of Form F-A-2 (and shown on Line F, column 1 of Part I of this Form F-A-6 cannot exceed 1.3 g/bhphr.	0
Attach documentation for the above emissions reductions other than FAC, including a description of the reductions, how acquired, date acquired, and amount acquired. Note that subparagraph III.D.3.a and Appendix E of the Memorandum stipulate a fixed conversion rate from tons to g/bhphr.	None

III. Reconciliation of Line F of Form F-A-2

A. Show amount from Line F, column 3 of Part I of this Form F-A-6.	0.1
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B. Show amount from Part II of this Form F-A-6.	0.0
C. Line A + Line B (should equal line F from Form F-A-2)	0.1