

SURFACE TRANSPORTATION BOARD

DECISION

Docket No. EP 290 (Sub-No. 5) (2013-1)

QUARTERLY RAIL COST ADJUSTMENT FACTOR

Digest:¹ The rail cost adjustment factor (RCAF) is an index formulated to represent changes in railroad costs incurred by the nation's largest railroads over a specified period of time. The statute requires the Surface Transportation Board to publish the RCAF on at least a quarterly basis. Each quarter, the Association of American Railroads computes three types of RCAF figures and submits those figures to the Board for approval. In addition, a new base level for the index is calculated here, as the statute requires be done every five years. The Board has reviewed the submission and adopts the RCAF figures for the first quarter of 2013.

Decided: December 19, 2012

In Railroad Cost Recovery Procedures, 1 I.C.C. 2d 207 (1984), the Interstate Commerce Commission (ICC) outlined the procedures for calculating the all-inclusive index of railroad input prices and the method for computing the rail cost adjustment factor (RCAF). Under the procedures, the Association of American Railroads (AAR) is required to calculate the index on a quarterly basis and submit it to the agency on the fifth day of the last month of each calendar quarter. In Railroad Cost Recovery Procedures—Productivity Adjustment, 5 I.C.C. 2d 434 (1989), aff'd sub nom. Edison Electric Institute v. ICC, 969 F.2d 1221 (D.C. Cir. 1992), the ICC adopted procedures that require the adjustment of the quarterly index for a measure of productivity.

The provisions of 49 U.S.C. § 10708 direct the Surface Transportation Board (Board) to continue to publish both an unadjusted RCAF and a productivity-adjusted RCAF. In Productivity Adjustment—Implementation, 1 S.T.B. 739 (1996), the Board decided to publish a second productivity-adjusted RCAF called the RCAF-5. Consequently, three indices are now filed with the Board: the RCAF (Unadjusted), the RCAF (Adjusted), and the RCAF-5. The RCAF (Unadjusted) is an index reflecting cost changes experienced by the railroad industry, without reference to changes in rail productivity. The RCAF (Adjusted) is an index that reflects national average productivity changes as originally developed and applied by the ICC, the

¹ The digest constitutes no part of the decision of the Board but has been prepared for the convenience of the reader. It may not be cited to or relied upon as precedent. Policy Statement on Plain Language Digests in Decisions, EP 696 (STB served Sept. 2, 2010).

calculation of which is currently based on a 5-year moving average. The RCAF-5 is an index that also reflects national average productivity changes; however, those productivity changes are calculated as if a 5-year moving average had been applied consistently from the productivity adjustment's inception in 1989.

As required by statute, the denominator of the RCAF is to be rebased every five years. The Board has verified AAR's proposed rebasing calculations and they comply with the statute. The rebasing calculations are shown in Table C of the Appendix.

The index of railroad input prices, RCAF (Unadjusted), RCAF (Adjusted), and RCAF-5 for the first quarter 2013 are shown in Table A of the Appendix to this decision. Table B shows the third quarter 2012 index and the RCAF calculated on both an actual and a forecasted basis. The difference between the actual calculation and the forecasted calculation is the forecast error adjustment.

We have examined AAR's calculations, and we find that AAR has complied with our procedures. We find that the first quarter 2013 RCAF (Unadjusted) is 0.997, a decrease of 0.3% from the fourth quarter 2012 RCAF of 1.000. The RCAF (Adjusted) is calculated, in part, using the RCAF (Unadjusted) and a 5-year moving geometric average of productivity change for U.S. Class I railroads from 2006-2010, which is 1.008 (0.8% per year). We find the RCAF (Adjusted) is 0.435, a decrease of 0.5% from the fourth quarter 2012 RCAF (Adjusted) of 0.437.²

In accordance with Productivity Adjustment—Implementation, 1 S.T.B. at 748-49, the RCAF-5 for this quarter will use a productivity trend for the years 2006-2010, which is 1.008 (0.8% per year). We find the RCAF-5 for the first quarter of 2013 is 0.411, a decrease of 0.5% from the fourth quarter 2012 RCAF-5 of 0.413.³

This decision will not significantly affect the quality of the human environment or the conservation of energy resources.

Authority: 49 U.S.C. § 10708.

² The first quarter 2013 RCAF Adjusted (0.435) is calculated by dividing the first quarter 2013 RCAF Unadjusted (0.997) by the first quarter productivity adjustment factor of 2.2907. The first quarter 2013 productivity adjustment factor is calculated by multiplying the fourth quarter 2012 productivity adjustment of 2.2861 by the fourth root (1.0020) of the 2006-2010 annual average productivity growth rate of 0.8%.

³ The first quarter 2013 RCAF-5 (0.411) is calculated by dividing the first quarter 2013 RCAF Unadjusted (0.997) by the first quarter productivity adjustment factor-5 (PAF-5) of 2.4279. The first quarter 2013 PAF-5 is calculated by multiplying the fourth quarter 2012 PAF-5 of 2.4231 by the fourth root (1.0020) of the 2006-2010 annual average productivity growth rate of 0.8%.

It is ordered:

1. The Board has approved the first quarter 2013 RCAF (Unadjusted) of 0.997, RCAF (Adjusted) of 0.435, and RCAF-5 of 0.411.
2. Notice of this decision will be published in the Federal Register.
3. The effective date of this decision is January 1, 2013.

By the Board, Chairman Elliott, Vice Chairman Mulvey, and Commissioner Begeman.

APPENDIX**TABLE A**

EP 290 (Sub-No. 5) (2013-1)
All Inclusive Index of Railroad Input Costs
 (Endnotes Following Table B)

LINE NO.	INDEX COMPONENT	2011 WEIGHTS	FOURTH QUARTER 2012 FORECAST	FIRST QUARTER 2013 FORECAST
1	LABOR	31.3%	390.5	389.7
2	FUEL	22.5%	403.3	396.5
3	MATERIALS AND SUPPLIES	5.1%	266.1	263.4
4	EQUIPMENT RENTS	5.6%	205.7	206.7
5	DEPRECIATION	11.6%	213.2	212.2
6	INTEREST	2.5%	92.9	92.9
7	OTHER ITEMS ¹	21.4%	218.0	218.8
8	WEIGHTED AVERAGE	100.0%	311.8	310.0
9	LINKED INDEX ²		299.0	297.3
10	PRELIMINARY RAIL COST ADJUSTMENT FACTOR ³		100.5	99.9
11	FORECAST ERROR ADJUSTMENT ⁴		-0.005	-0.002
12	RCAF (UNADJUSTED) (LINE 10 +LINE 11)		1.000	0.997
13	RCAF (ADJUSTED)		0.437	0.435
14	RCAF-5		0.413	0.411

TABLE B

EP 290 (Sub-No. 5) (2013-1)
Comparison of Third Quarter 2012 Index
Calculated on Both a Forecasted and an Actual Basis

Line No.	INDEX COMPONENT	2010 WEIGHT	THIRD QUARTER 2012 FORECAST	THIRD QUARTER 2012 ACTUAL
1	LABOR	33.3%	391.4	391.4
2	FUEL	18.0%	353.4	359.0
3	MATERIALS AND SUPPLIES	5.0%	274.8	274.8
4	EQUIPMENT RENTS	6.2%	205.8	203.6
5	DEPRECIATION	12.8%	211.7	210.8
6	INTEREST	2.9%	90.6	90.6
7	OTHER ITEMS	21.8%	221.6	216.8
8	WEIGHTED AVERAGE	100.0%	298.5	298.2
9	LINKED INDEX		289.4	288.8
10	RAIL COST ADJUSTMENT FACTOR		97.3	97.1

TABLE C**Rebasing the Denominator of the RCAF
to the Fourth Quarter 2012 Level**

1.	Fourth Quarter 2012 Linked Index	299.0
2.	Second Quarter 2012 Linked Index Calculated Using Actual Data	295.2
3.	Second Quarter 2012 Linked Index Calculated Using forecasted Data	296.7
4.	Difference	-1.5
5.	Rounding adjustment to force 1.000	0.0
6.	Fourth Quarter 2012 Linked Index Adjusted for Second Quarter 2012 Forecast Error (Line 1 plus Line 4 plus Line 5)	297.5

Endnotes:

¹ “Other Items” is a combination of Purchased Services, Casualties and Insurance, General and Administrative, Other Taxes, Loss and Damage, and Special Charges, price changes for all of which are measured by the Producer Price Index for Industrial Commodities Less Fuel and Related Products and Power.

² Linking is necessitated by a change to the 2011 weights beginning in the fourth quarter 2012. The following formula was used for the current quarter’s index:

$$\frac{\text{1st Qr. 2013 Index (2011 Weights)}}{\text{4th Qr. 2012 Index (2011 Weights)}} \text{ Times 4th Quarter Linked Index (1980 = 100 Linked) Equals Linked Index (Current Quarter)}$$

Or

$$\frac{310.0}{311.8} \times 299.0 = 297.3$$

³ The first quarter 2013 RCAF was rebased using the October 1, 2012 level of 297.5 in accordance with the requirements of the Staggers Rail Act of 1980 (10/1/2012 = 100). For the purpose of calculating the fourth quarter 2012 linked index (2012Q4 = 100), where the fourth quarter 2012 linked index equals 100 after the forecast error adjustment, the fourth quarter 2012 RCAF is also recalculated using the October 1, 2012 level of 297.5.

⁴ The first quarter 2013 forecast error adjustment was calculated as follows: (a) third quarter 2012 RCAF using forecasted data equals 97.3; (b) third quarter 2012 RCAF using actual data equals 97.1; and (c) the difference equals the forecast error (b-a) of -0.2. Because the actual third quarter value is less than the forecast value, the difference is subtracted from the Preliminary RCAF. Both the fourth quarter 2012 and the first quarter 2013 forecast error adjustments are recalculated using the October 1, 2012 level.